

2025 ANNUAL GROUNDWATER QUALITY REPORT

FOR THE PAGE COUNTY SANITARY LANDFILL 73-SDP-01-75P CLARINDA, IOWA

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Certification

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Section 1.0 Background Information

1.1 Report Format

Table 1 through Table 12 are attached to this report and satisfy the IDNR requirement to provide the tables to meet the IDNR format requirements included in Special Provision 4.k. of the Permit, dated August 20, 2024 (Doc #110726).

1.2 Report Priority

No requests are made herein for priority review of this document.

1.3 Period of Report Coverage

Water quality data evaluation is based on a running compilation of data beginning in September, 2014. Statistical evaluations herein are based on the most recent water quality data collected through September 9, 2025.

1.4 Current Site Map

Figure 1 is attached illustrating the current site features, monitoring well locations, and subsurface gas probe locations.

1.5 Site Status and Applicable Rules

Site Location

The Page County Sanitary Landfill is located in the S½ of the NW¼ and the SW¼ of Section 28, T69N, R37W, Page County, Iowa. The site encompasses approximately 216 acres. The facility is situated north of Highway 2. The facility operates under the Iowa Department of Natural Resources (IDNR) Permit Number 73-SDP-1-75P.

The site is generally described as being developed in pre-Illinoian Pleistocene glacial till that is overlying Pennsylvanian age bedrock. Information from the Iowa Geologic Survey Bureau indicates the till is over 100 ft thick consisting of clay rich sediments with interbedded deposits of sand and gravel. The uppermost bedrock unit consists of cyclic shale and limestone sequences which, as a whole, is typically over 1,000 feet thick (James M. Montgomery HIR 1990).

Landfill Layout

The site is situated in the uplands south of a tributary to Snake Creek.

As illustrated in Figure 1, the site is described as the original 80-acre parcel. The original 80-acre parcel was divided into the East Landfill, the West Landfill, and the West Expansion Area. A horizontal expansion was approved September 20, 2005 consisting of a RCRA Subtitle D alternate liner in between the West and East Landfills. Phases 1-5 are subsequent RCRA Subtitle D composite liner expansions.

The recently approved West Expansion Area Phase W-1 abuts the Original Landfill on the west side. Construction activities associated with development in the Expansion Area Phase W-1 were completed in early August of 2024 and waste placement was initiated after approved by IDNR in the Permit, dated August 20, 2024 (Doc #110726).

Applicable Rules

Iowa Administrative Code (IAC) 567-113 is applicable to the site.

1.6 Summary of Hydrologic Monitoring System Plan (HMSP)

The HMSP includes upgradient monitoring points MW-44 and MW-17. There are eleven (11) downgradient monitoring wells designated MW-1d, MW-3, MW-7, MW-10, MW-13, MW-14, MW-16, MW-18, MW-19, MW-20, and MW-53. There are also four (4) downgradient groundwater diversion underdrain designated GU-1, GU-2, GU-3, and GU-4. GU-2 and GU-4 are underdrains below the east lagoon and the west lagoon, respectively.

Note that MW-1 was moved from the background system to the downgradient assessment monitoring system in 2023 and is now designated MW-1d. Existing MW-44, located in the future South Expansion Area was added to the background system to replace MW-1. The historic water quality data from MW-1 (2014 through 2022) is retained in the background water quality data pool.

MW-14 also serves as a downgradient monitoring point to the east leachate storage lagoon on the site. MW-53 also serves as a downgradient monitoring point to the west leachate storage lagoon on the site. The current HMSP is summarized in Table 1. The HMSP Implementation Schedule for 2026 is itemized in Table 2.

MW-11 was plugged April 3, 2023 (Doc #108594).

MONITORING WELL MAINTENANCE PERFORMANCE REEVALUATION

Table 3 outlines the status of well performance and maintenance activities performed as required by IAC 567-113.10(2) f.

Hydrologic Monitoring System Plan (HMSP) Updates

During construction updates associated with Phase W-1 Expansion in the West Expansion Area, MW-19 was damaged by heavy equipment and was replaced by MW-19R located in the same location. MW-19R was included in the HMSP beginning November 2024.

High & Low Water Levels

Current year water elevation data is included on Table 4. Historic water elevation data (2017-2025) is included in the Table 4A. A Water Table Contour Map (Figure 2) dated September, 2025 is included with this report and illustrates the water table surface and the effects of the topography.

Review of the 2025 water elevation data does not indicate any remarkable water elevation conditions.

Well Depth & Sedimentation

Well depth measurements were made September 8, 2025. Review of the well depth data included on Table 4 indicate that well sedimentation is estimated to be less than one (1) foot at all site monitoring wells.

Well Recharge Rates & Chemistry

The most recent measured horizontal hydraulic conductivity testing results (2004, 2020, 2023, and 2024) for site monitoring wells are included on Table 4. Horizontal hydraulic conductivities ranged between 10^{-5} cm/sec and 10^{-6} cm/sec.

Field recovery data recorded on March 18, 2024 (also on Table 4) indicates that the monitoring wells recover to at least 90% recovery within 3 to 24 hours after purging. The exception is at MW-13 where more than 24 hours was required for the well to recover. Well recovery information indicates that recharge to the individual wells remained sufficient to promote collection of representative water quality samples and the wells were functioning as intended. Monitoring well recharge reevaluation is due biennially according to 113.10(2)"f", and should be evaluated again in 2026.

Based on the apparent static condition of the water surfaces across the site, it appears that the semi-annual water elevation data is sufficient to adequately monitor the hydrologic condition of the site. Further, the wells are interpreted to be appropriately located to detect any impact, should it occur.

Section 2.0 Reporting Period Monitoring Activities

A summary of the planned 2026 sample collection events at each well is included on Table 2. A comprehensive summary of sampling episodes from 2018 to present is included in Table 2A.

Field sampling information for March 10, 2025, May 1, 2025, September 8, 2025, and December 5, 2025 sampling episodes is included on the field forms (IDNR Form 542-1322) in Appendix A.

A comprehensive summary of Analytical Data for the episodes between September 17, 2014 and September 8, 2025, is included in Table 9.

2.1 Current Detection Monitoring Activities

Background wells are currently MW-44 and MW-17. Historic data from monitoring well MW-1 (2014 through 2022) is retained in the background water quality data pool as well.

Downgradient monitoring points include MW-1d, MW-3, MW-7, MW-10, MW-13, MW-14, MW-16, MW-18, MW-19, MW-20, MW-53, GU-1, GU-2, GU-3, and GU-4.

MW-13, MW-14, MW-17, MW-53, GU-1, GU-2, GU-3, and GU-4 remain in the detection monitoring system.

Note that the August 1, 2024 samples collected at MW-53, GU-3, and GU-4 were collected prior to deposition of any waste in the Phase W-1 Expansion Area. The underdrain tile lines (GU-1, GU-2, GU-3, and GU-4) will be evaluated by intrawell statistical evaluation methods once the minimum number of data points (8 points in the background) are available (estimated 2028).

2.2 Current Assessment Monitoring Activities

MW-1d, MW-3, MW-7, MW-10, and MW-19 are in the assessment monitoring system. A five (5) year frequency for full Appendix II sampling was approved in Special Provision X.4.h of the Permit, dated August 20, 2024 (Doc #110726).

Two (2) rounds of full Appendix II sampling are completed at MW-1d, MW-3, MW-7, MW-16, MW-18, MW-19, and MW-20. The third round of full Appendix II sampling is completed at MW-10. The next full Appendix II sample collection event is scheduled to occur at MW-3, MW-16, MW-18, and MW-20 in September, 2026 (Table 2).

2.3 Current Corrective Action Activities

MW-18 and MW-20 have been included in the corrective action monitoring system for numerous years related to elevated arsenic concentration.

MW-18 (2009) is positioned hydraulically upgradient of MW-16 (1993). MW-16 has monitored the performance of the apparent attenuation zone near MW-18. MW-16 now has a recorded Statistically Significant Level (SSL) for arsenic as well.

MW-16 is also now included in the Corrective Action Monitoring System based on the arsenic SSL reported herein.

Additional field study and preparations of the Assessment of Corrective Measures (ACM) Report for MW-16 and MW-18 is planned for 2026.

MW-20 is located in the Expansion Area to the west of the active site. The Expansion Area will abut the Original Landfill along the west side. Construction activities associated with development in the Expansion Area to the west commenced in 2024. Development of the Expansion Area will likely benefit water quality near MW-20.

Section 3.0 Data Evaluation and Summary

Statistical Evaluations are prepared by Otter Creek Environmental Services for each monitoring episode. The Groundwater Statistics Report for the Page County Sanitary Landfill, First Semi-Annual Monitoring Event in 2025, dated April 2025 is included in Appendix B.1. The Groundwater Statistics Report for the Page County Sanitary Landfill, Second Semi-Annual Monitoring Event in 2025, dated October, 2025 is included in Appendix B.2.

The Analytical Reports for the laboratory testing on samples collected March 10, 2025, May 1, 2025, September 8, 2025, and December 5, 2025, are included in Appendix C.

QUALITY ASSURANCE/QUALITY CONTROL

A blind duplicate sample was collected at MW-1d during the March 10, 2025 sampling episode. A blind duplicate sample was collected at MW-16 during the September 8, 2025 sampling episode.

The purpose of the field duplicate is to evaluate the precision of sample collection and analysis process from the field through the laboratory. The calculation of the Relative Percent Difference (RPD) for duplicate pair results is used as a means to evaluate the precision.

The Quality Control (QC) limit for the RPD on field duplicates is established at thirty percent (30%) for duplicate pairs that have reported concentrations five (5) times greater than the laboratory Reporting Limit. For samples and respective duplicates with reported analyte concentrations nearer the Reporting Limit, the RPD calculations demonstrate greater variability and the RPD can be very large. RPD values are considered non-representative in the following conditions:

- a) Both the original and the duplicate results are less than five (5) times the Reporting Limit.
- b) One or both results are qualified, flagged, or estimated.
- c) One or both results are non-detected.

The results of the blind duplicate and the monitoring well results for March 10, 2025 and September 8, 2025, were within the limits established and indicate that the data quality is acceptable without restriction.

BACKGROUND DATA VALIDATION

On July 10, 2014 an unnumbered Permit Amendment and Memo was issued by the IDNR regarding turbidity (Doc # 80692). A TSS and Field Turbidity Evaluation Report was prepared and submitted on December 12, 2017 (Doc# 91110) and was approved by IDNR on December 27, 2017 (Doc #91168). A summary table of field measured turbidity is included in Appendix D.

The background data utilized herein has been restricted to include only sample results that have been collected by “No Purge” methods in order to avoid turbidity related issues that may have been associated with historic sample collection methods. No-purge sampling has been performed at the facility beginning with the September 17, 2014 sampling episode.

Upgradient Data, Table 1, Attachment B, to the October, 2025 Statistical Evaluation Report (Appendix B.2) includes a summary of the most current background data. Any water quality results tagged with an asterisk is a statistical outlier and is excluded from use in calculating the Prediction Limits. The calculated Prediction Limits are summarized on Table 5.

SITE SPECIFIC GWPS

Review of the information included on Table 5 indicates that the prediction limit for cobalt (30.6 ug/L) calculated from the background data exceeds the published IAC 567, Chapter 137 Statewide Standard (2.1 ug/L). The Site-Specific GWPS should not be set lower than the Site Prediction Limit calculated from the site background data. For this report, the prediction limits for cobalt (30.6 ug/L) is utilized as the Site-Specific GWPS. For all other compounds the published IAC 567, Chapter 137 Statewide Standard are utilized as the GWPS.

STATISTICALLY SIGNIFICANT INCREASES (SSI)

The detected concentration of each compound is compared to the current site prediction limit for each respective compound calculated based on the background data set. A detected concentration for a compound that is in excess of the calculated site prediction limit is recorded as a Statistically Significant Increase (SSI) at detection monitoring wells.

Since the Prediction limit for VOC is set at the laboratory Reporting Level, any VOC detection is recorded as an SSI. Table 6 is a summary of all compounds at site monitoring wells that have exceeded a *current* prediction limit in 2025.

The August 1, 2024 samples collected at MW-53, GU-3, and GU-4 were collected prior to deposition of any waste in the Phase W-1 Expansion Area. It is noted that barium, cobalt, nickel, selenium, and zinc are detected at GU-3 prior to waste acceptance. Similarly, barium, nickel, and zinc are detected at GU-4 prior to waste acceptance. The water quality at GU-3 and GU-4 will be evaluated by intrawell statistical evaluation methods, rather than comparing the underdrain discharges to the background well information.

Wells that are currently included in the assessment monitoring system or the corrective action monitoring system are MW-1d, MW-3, MW-7, MW-10, MW-16, MW-18, MW-19, and MW-20. Table 7 includes an on-going summary of compound detections that exceed the prediction limits (highlighted in light brown).

Exceedances of the Prediction Limit at a well that is in the assessment monitoring system or the corrective action monitoring system is not an SSI, instead the exceedance is further evaluated by Confidence Interval Statistics.

Exceedance of the Prediction Limits for the current year is summarized on Table 1. A running summary of recorded Prediction Limit exceedances by year since 2018 is included in Appendix E.

This report serves as notice to the operating record in accordance with IAC 567-113.10(5)c.

ASSESSMENT MONITORING SUMMARY

A five (5) year frequency for full Appendix II sampling was approved in Special Provision X.4.h of the Permit, dated August 20, 2024 (Doc #110726).

Two (2) rounds of full Appendix II sampling are completed at MW-1d, MW-3, MW-7, MW-16, MW-18, MW-19, and MW-20. The third round of full Appendix II sampling is completed at MW-10. The next full Appendix II sample collection event is scheduled to occur at MW-3, MW-16, MW-18, and MW-20 in September, 2026 (Table 2).

Compounds detected to date beyond the Appendix I list are limited to dichlorodifluoromethane and bis(2-ethylhexyl) phthalate. The summary of assessment monitoring detections 2014 to date is presented in Appendix F. The full Appendix II sampling episodes are highlighted in green in the tables in Appendix F.

Based on the results to date, dichlorodifluoromethane and bis (2-ethylhexyl) phthalate will continue to be monitored on a five (5) year frequency during the full Appendix II sampling as approved by IDNR (see schedule in Table 2).

STATISTICALLY SIGNIFICANT LEVELS (SSL)

The compounds with detections that exceed site prediction limits (see summary in Tables 1 & 7) are utilized to calculate the Confidence Interval (the 95% lower confidence limits (LCL) and the 95% upper control limits (UCL)) in accordance with the 2009 Unified Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities by US EPA. The 95% LCL values are compared to applicable GWPS. Any 95% LCL value that exceeds an applicable GWPS is recorded as an SSL. All wells with a recorded SSL required the plume of impact to be defined in the horizontal and vertical directions and required completion of an Assessment of Corrective Measures (ACM).

The SSL Evaluation is based on data collected since September 17, 2014. The Confidence Intervals (95% LCL and 95% UCL) are calculated during each statistical evaluation based on the most recent four (4) data points. The 95% LCL evaluation is presented in Table 7. The yellow highlights in Table 7 indicate an exceedance of the GWPS.

The findings (Table 1) indicate that the following compounds are Statistically Significant Levels (SSL) at the following monitoring wells:

MW-16	Arsenic (<i>new 9/8/2025</i>)
MW-18	Arsenic
MW-20	Arsenic & Barium

ASSESSMENT OF CORRECTIVE MEASURES (ACM)

MW-18 (arsenic) and MW-20 (arsenic and barium) have demonstrated elevated concentrations since prior to 2014. This evaluation marks the first recorded SSL at MW-16 (arsenic).

As illustrated on Groundwater Contour Map (Figure 2), MW-18 (constructed 2009) is located in a position that is both hydraulically downgradient from the waste mass and hydraulically

upgradient from existing MW-16 (constructed 1993). MW-16 is located hydraulically downgradient from the waste boundary.

Historically, monitored natural attenuation (MNA) was recognized as the corrective action in the vicinity of MW-16 and MW-18 based on the diminished arsenic levels recorded between MW-18 (upgradient) and MW-16 (downgradient) along the groundwater flow path (Figure 3).

However, based on the recently recorded SSL at MW-16, it appears that additional evaluation is warranted in the vicinity of MW-18 and MW-16. Further, it appears that additional remedy may be required to augment the existing MNA, or supplemental source control may be required to restrict impacts at MW-18 and MW-16.

The following activities are proposed in calendar year 2026:

- 1) Test the water at MW-18 and MW-16 for the presence of dissolved methane, ethane, and ethene to determine whether, or not, landfill gas may be impacting water quality or subsurface conditions near MW-18 and MW-16.
- 2) Evaluate the subsurface conditions by recording the pH, dissolved oxygen, specific conductance, and oxidation-reduction potential to determine whether subsurface conditions increase the potential for arsenic reduction/dissolution from native soils.
- 3) Drill additional soil borings north of MW-18 and MW-16 to delineate the limits of impact near MW-18 and MW-16.
- 4) Prepare an Assessment of Corrective Measures (ACM) in accordance with IAC567-113.10(7).

The findings of the evaluations, the drilling, and the ACM will be submitted to the IDNR with, or prior to, the 2026 Annual Water Quality Report due January 31, 2027.

It has been recognized for many years the upcoming development of the landfill expansion area to the west of the Original Landfill will add beneficial control to the shallow groundwater flow in the vicinity of MW-20. The planned landfill development in the Expansion Area will include groundwater diversion systems under each future landfill cell. Further, the planned development in the Expansion Area has converted the existing (1997 era) leachate cut-off and collection system along the west side of the closed area from a pumped sump system to an unrestricted gravity flow system with the construction of the leachate holding lagoon along the west property boundary. A copy of the Cell and Infrastructure Layout Plan for the Expansion Area Project to the west of the operating landfill is included in Appendix G. Construction of the first cell and the leachate lagoon was completed in August, 2024.

CORRECTIVE MEASURES MONITORING

The Confidence Interval of Corrective Action Monitoring points are utilized to determine the success of the on-going Corrective Measures. A Corrective Action is complete when the 95% UCL value at all points within the plume are below the applicable GWPS for a minimum of three (3) years.

The 95% UCL evaluations for MW-16, MW-18, and MW-20 are presented in Table 8. The green highlights in Table 8 indicate the 95% UCL values that exceed the GWPS.

Table 10 represent summary of the recorded SSI and SSL over time at MW-16, MW-18, and MW-20. Table 11 includes the evaluation of the corrective action trends over time at MW-16, MW-18, and MW-20.

The results indicate that the 95% UCL for arsenic at Corrective Action Monitoring Point MW-16 and MW-18 remains above the GWPS and that MW-16 and MW-18 should remain in the Corrective Action Monitoring Plan.

The results indicate that the 95% UCL for arsenic and barium at the Corrective Action Monitoring Point MW-20 remain above the GWPS and that MW-20 should remain in the Corrective Action Monitoring Plan.

Section 4.0 Leachate Collection System Performance Evaluation

The Page County Sanitary Landfill initially was constructed as a trench type fill. An area fill method is now being used as documented in the previously approved design plans.

The first Leachate Control Plan for this site was completed in 1990. In 1993, further evaluation included the installation of leachate monitoring piezometers in each of the filled trenches. The October 1993 Montgomery Watson report *Leachate Extraction Testing Results and Waste Area Characterization for the Page County Sanitary Landfill* shows the locations of all the trenches and piezometers. A total of 38 piezometers were installed most of which have now been abandoned and removed.

The Page County Sanitary Landfill Leachate Control Plan was submitted to IDNR in April 1995. IDNR approval to construct the system was received August 1995. Construction began during the fall of 1995 and was completed during May 1996. As-built plans were submitted and approved by IDNR in December 1996.

Following approval of a new design, the *4.5-Acre New Cell* included an additional leachate collection system along with a groundwater dewatering system and an approved alternative liner. The first phase of this approved Subtitle D cell was completed in September 2005 and was approved for waste disposal in an IDNR letter dated September 30, 2005.

In 2007, a ½ acre abutment clay-liner was installed adjacent to the north end of the Subtitle D cell. A 1.3-acre FML composite abutment liner was constructed in October 2008 on the northeast slope. During the summer of 2010, an additional FML composite liner was installed over existing waste on the south end of the old ravine and is the new Phase 1. During 2012, Phase 2 was constructed over previously deposited waste in the southeast corner of the landfill. Leachate generated in this cell flows into Phase 1 for collection.

Phase 3 was constructed in 2013. Phases 4 and 5 were completed in 2016. With the construction of Phase 4 and 5, LPZ-40 was removed, and LPZ-41 was installed for measuring the leachate on the new Subtitle D cell liners.

The Phase W-1 expansion was completed in 2024. The Phase W-1 project included construction of a new leachate storage lagoon (West Lagoon) with a freeboard storage capacity of approximately 630,150 gallons and a new leachate loadout station. The leachate collection line in Phase W-1 gravity flows to the West Lagoon. All collection lines from Phase 3, 4, and 5 gravity flow to a leachate pump station where accumulated leachate is pumped to the new leachate conveyance system installed during the Phase W-1 Expansion project and conveyed to the West Lagoon for storage. The East Lagoon (freeboard capacity of approximately 498,500 gallons) is being maintained on site as a backup. The leachate storage tanks (10,000-gallon storage tank and 20,000-gallon storage tank) and the associated leachate loadout station have been removed.

Special Provision X.5. of the Permit, dated August 20, 2024 (Doc #110726) approves the recirculation of leachate over composite lined landfill cells. There was no leachate recirculated in 2025.

Between January 1, 2025, and December 31, 2025, approximately 1,650,000 gallons of leachate were hauled to treatment at a nearby municipal WWTP. A summary of the leachate volume hauled by month is included in Appendix H.1.

Treatment Agreements are in place with Coin, Iowa; Shenandoah, Iowa; and Clarinda, Iowa for treatment of leachate. Copies of the Treatment Agreements are included in Appendix H.2.

As required by the treatment agreements with the Cities of Coin, Shenandoah, and Clarinda leachate is tested monthly for BOD, total suspended solids, and ammonia nitrogen; and annually for a more comprehensive list of constituents. A summary of testing (Table H1) and copies of the Monthly Laboratory Reports are included in Appendix H.3. A copy of the Annual Testing Results is included in Appendix H.4.

Leachate Evaporator

An EcoMister® HD-19 evaporator as manufactured by Slimline manufacturing was placed in operation at the West Leachate Storage Lagoon in 2025. The EcoMister® HD-19 functioned as intended during 2025. The evaporation is not metered, but the system seemed to provide increased evaporation of landfill leachate. The reduction in leachate hauling is not directly measured. It is anticipated that a general estimate of evaporation may be garnered in the future as more years of hauling data become available and more years pass with the drainage layer in Phase W-1 no longer open to rainfall.

Leachate Line Cleaning

IAC 567-113.7(5)b(5) requires that the leachate system be cleaned every three (3) years at a minimum. The leachate gravity collection lines were cleaned in April 2023. All leachate lines should be cleaned again in 2026 in accordance with regulations.

Leachate Level Monitoring

The September 5, 2024 IDNR Letter (Doc #110837) requires biennial monitoring of the leachate piezometers in the unlined areas at LPZ-1, LPZ-24, LPZ-25, LPZ-29, LPZ-33, and LPZ-36. These points were measured in 2024 and will be measured next in 2026. Table H2 in Appendix H.5 provides the summary of the historic measurements in the unlined landfilling areas.

Monitoring of the leachate piezometers in the lined Subtitle D cells (LPZ-39, LPZ-41, and LPZ-2) is conducted monthly. Table H3 in Appendix H.5 provides the summary of the 2025 measurements in the Subtitle D compliant areas.

Original Landfill LCSPE

Piezometers that continue to be functional and are monitored biennially are LPZ-1, LPZ-24, LPZ-25, LPZ-29, LPZ-33, and LPZ-36. The most recent biennial measurement occurred during July, 2024. Note MW-38 was removed during the Phase W-1 Expansion project in 2024.

The reported level measurements in the piezometers monitoring the unlined and non-Subtitle D areas have stabilized and do not vary significantly over the course of time. The retrofitted leachate collection system is functioning satisfactorily.

Subtitle D Landfill Areas LCSPE – RCRA Landfill Phase 1 through Phase 5

LPZ-39 and LPZ-41 serve as the required points to monitor the leachate head on the lined Subtitle D cells Phase 1 through Phase 5.

The 2025 level measurements in LPZ-39 indicate minimal liquid thickness (normally less than 2 inches). The 2025 level measurements in LPZ-41 indicate this point was dry. Measurements did not exceed one foot of leachate thickness over the liner in Phase 1 through Phase 5. The Subtitle D leachate systems are functioning and maintaining the leachate head below one foot.

Separation of the base of waste and the groundwater table is evaluated through observation of groundwater elevation measurements collected from groundwater piezometers GPZ-1. Groundwater head measurements are required semiannually in accordance with the SDP Permit with the measurements included on Table 4. Based on the groundwater head data presented in Table 4, separation is maintained between the base of the solid waste and the groundwater surface. No changes are recommended.

Subtitle D Landfill Areas LCSPE – RCRA Landfill Phase W-1

LPZ-2 serves as the required points to monitor the leachate head on the lined Subtitle D cell Phase W-1.

The 2025 level measurements in LPZ-2 indicate this point was dry. Measurements did not exceed one foot of leachate thickness over the liner. The Subtitle D leachate system in Phase W-1 is functioning and maintaining the leachate head below one foot.

Separation of the base of waste and the groundwater table is evaluated through observation of groundwater elevation measurements collected from groundwater piezometers GPZ-2. Groundwater head measurements are required semiannually in accordance with the SDP Permit with the measurements included on Table 4. Based on the groundwater head data presented in Table 4, separation is maintained between the base of the solid waste and the groundwater surface. No changes are recommended.

Section 5.0 Gas Monitoring

Explosive gas monitoring per 113.9(2) and the approved GMSP in Special Provision X.6. of the Permit, dated August 20, 2024 (Doc #110726) was conducted quarterly during the last reporting period (2025). The monitoring includes indoor ambient air monitoring in buildings and subsurface monitoring in dedicated gas probes and underdrain tile lines.

Monitoring points currently include four (4) buildings, six (6) subsurface gas probes, and four (4) underdrain pipe ends. Figure 1 & Figure 2 illustrate the monitoring points.

GP-1 is located in the utility line in the northwest corner of the site. GP-2 is located east of the recycling building. GP-3 is located on the southwest corner of the site near MW-11. GP-4 is located on the southeast corner of the site near MW-17. MW-15 is approved to serve as an adequate gas monitoring location on the northeast side and has been designated as GP-5. GP-5A exists as a step-out monitoring point to GP-5. GP-5A is installed about 1½ feet from the east property/fence line and approximately 61 feet from GP-5.

As a result of detecting methane gas at GP-5 (MW15), the notification of a detection was submitted to IDNR and Field Office #4 on July 24, 2012. A *Methane Gas Remediation Plan* was submitted September 10, 2012. MW-15 (GP-5) was installed too close to the deposited waste and in silty-sandy soils. Step-out gas probe GP-5A was installed December 13, 2012.

Gas is periodically detected in GP-5 (MW-15). No gas has ever been detected in the step-out probe (GP-5A).

Explosive gas concentrations (%LEL) were undetected *or* were below action levels during the monitoring episodes, and additional actions are not warranted at GP-5. A summary table for gas monitoring is included as Table 12.

Section 6.0 Recommendations

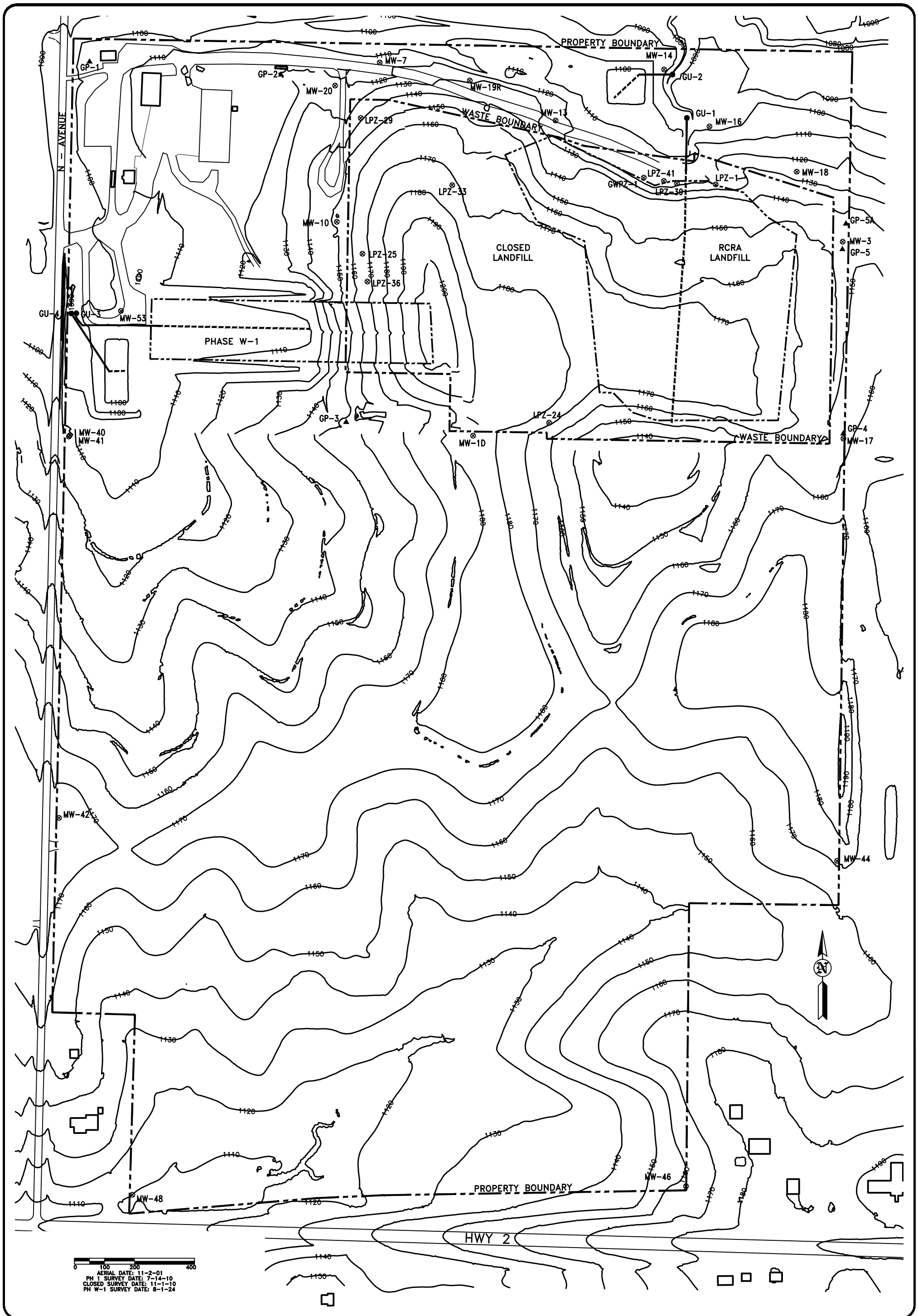
It is recommended that the detection monitoring, assessment monitoring, and corrective action monitoring continue to be performed on a semi-annual basis at the monitoring points listed in Table 1 and Table 2.

It is recommended that the prediction limits for cobalt (30.6 ug/L) be utilized as the Site-Specific GWPS. For all other compounds, it is recommended that the published IAC 567, Chapter 137 Statewide Standard be utilized as the GWPS.

It is recommended that detection monitoring continue semi-annually at GU-1, GU-2, GU-3, and GU-4. Upon completion of eight (8) rounds of background at GU-1, GU-2, GU-3, and GU-4 intrawell statistical evaluation of the groundwater should be performed following each sample collection and reporting event.

The proposed field evaluations, drilling, and ACM reporting should be completed in 2026 as proposed.

Figures

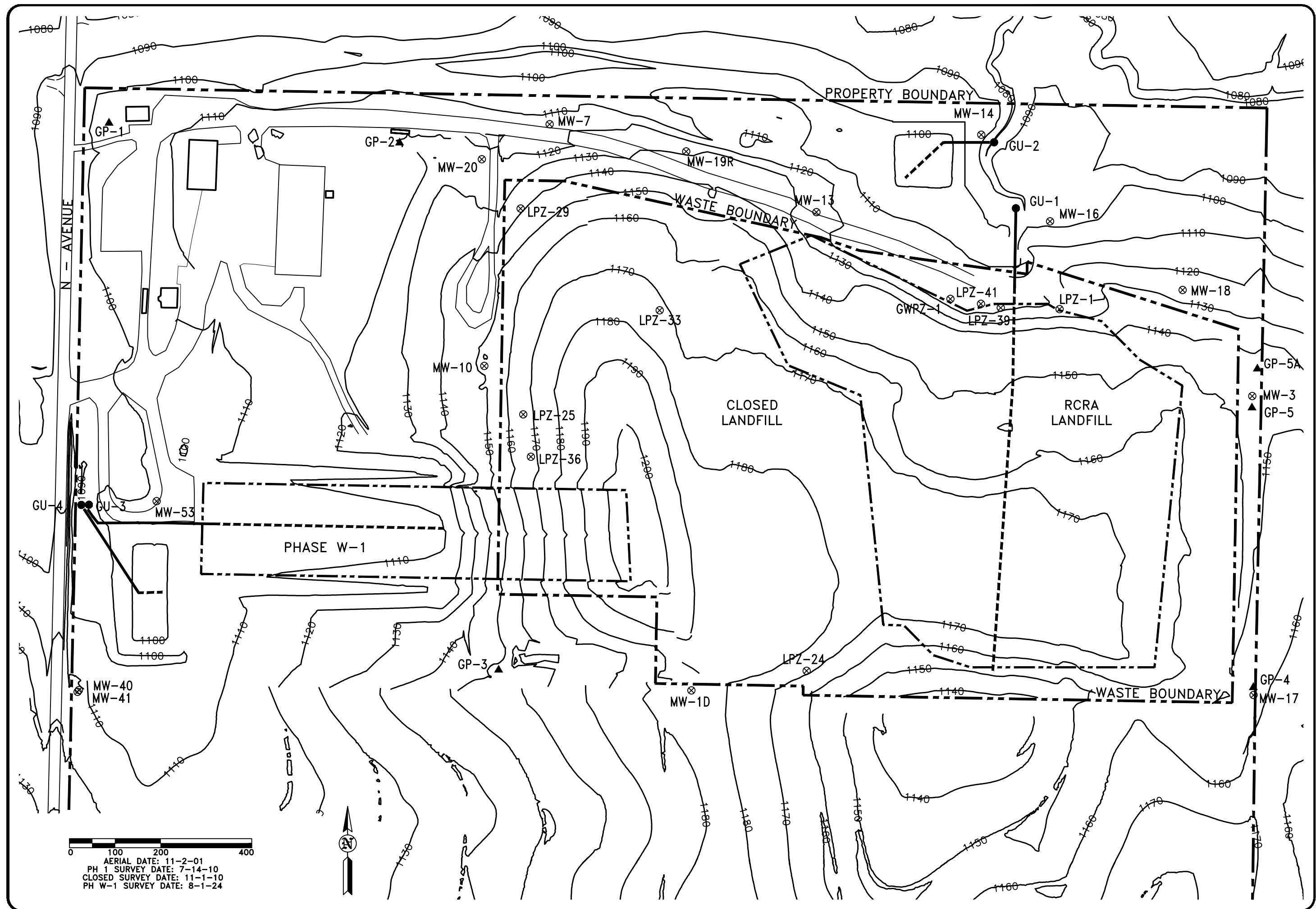


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SITE PLAN – TOTAL PROPERTY

PAGE COUNTY SANITARY LANDFILL
CLARINDA, IOWA

FIGURE: 1		
REVISION	NO.	DATE
DRAWN DRA	PROJECT NO. 6047	DATE 10-6-25



0 100 200 400
AERIAL DATE: 11-2-01
PH 1 SURVEY DATE: 7-14-10
CLOSED SURVEY DATE: 11-1-10
PH W-1 SURVEY DATE: 8-1-24



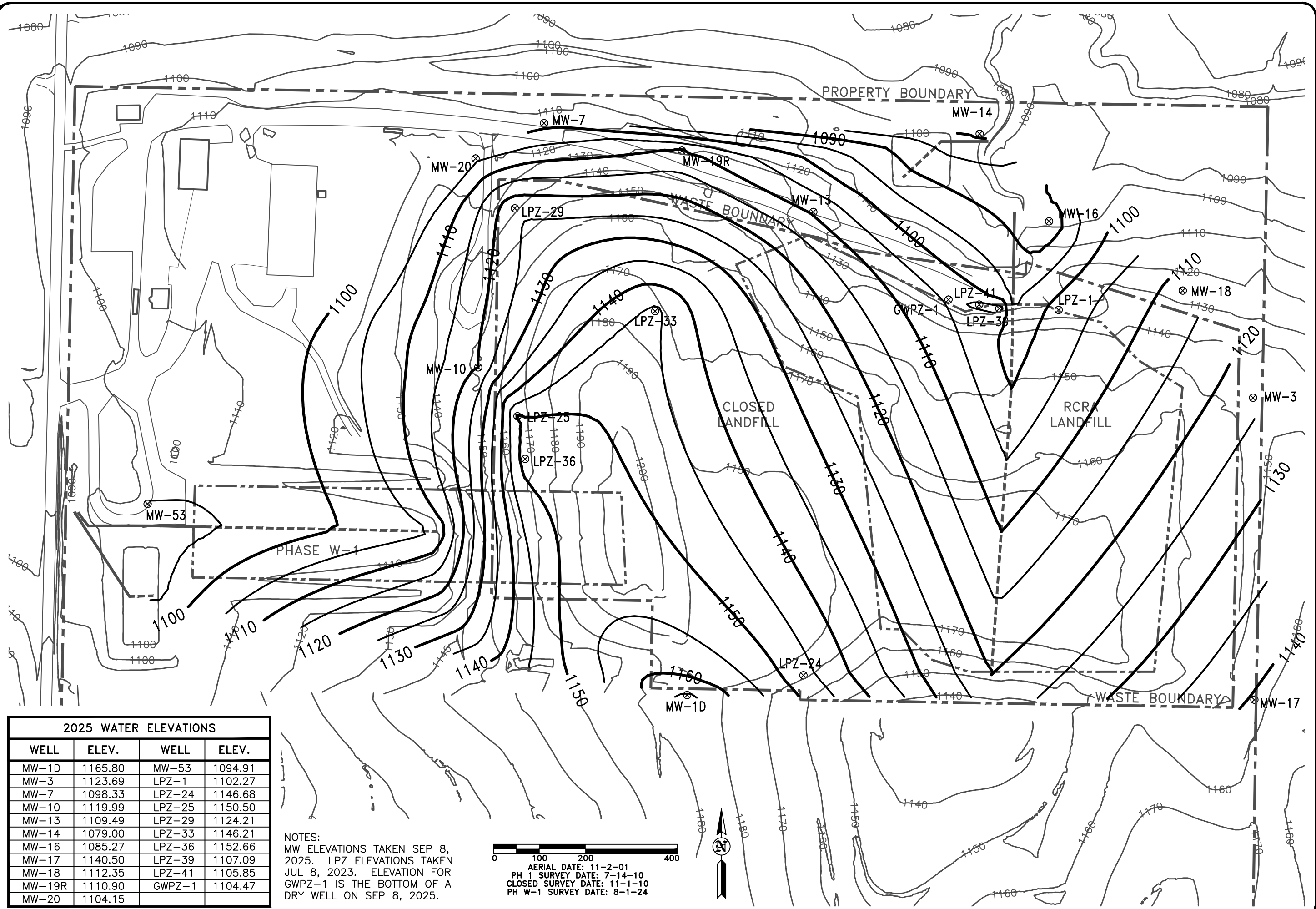


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SITE PLAN – LANDFILL AREA
PAGE COUNTY SANITARY LANDFILL
CLARINDA, IOWA

FIGURE: 2

REVISION	NO.	DATE
DRAWN	6047	10-6-25
DRA		



2025 WATER ELEVATIONS			
WELL	ELEV.	WELL	ELEV.
MW-1D	1165.80	MW-53	1094.91
MW-3	1123.69	LPZ-1	1102.27
MW-7	1098.33	LPZ-24	1146.68
MW-10	1119.99	LPZ-25	1150.50
MW-13	1109.49	LPZ-29	1124.21
MW-14	1079.00	LPZ-33	1146.21
MW-16	1085.27	LPZ-36	1152.66
MW-17	1140.50	LPZ-39	1107.09
MW-18	1112.35	LPZ-41	1105.85
MW-19R	1110.90	GWPZ-1	1104.47
MW-20	1104.15		

NOTES:
MW ELEVATIONS TAKEN SEP 8, 2025. LPZ ELEVATIONS TAKEN JUL 8, 2023. ELEVATION FOR GWPZ-1 IS THE BOTTOM OF A DRY WELL ON SEP 8, 2025.

0 100 200 400
AERIAL DATE: 11-2-01
PH 1 SURVEY DATE: 7-14-10
CLOSED SURVEY DATE: 11-1-10
PH W-1 SURVEY DATE: 8-1-24



GROUNDWATER CONTOURS
PAGE COUNTY SANITARY LANDFILL
CLARINDA, IOWA

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REVISION		NO.	DATE
DRAWN	DRA	6047	10-6-25
PROJECT NO.		DATE	

FIGURE: 3

Tables (in IDNR Format)

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Table 1 – Monitoring Program Summary

Table 1
Monitoring Program Summary
Annual Water Quality Report
Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

Monitoring Well	Formation	Current Monitoring Program	Change for next sampling event	Historic - Constituents w/ SSL	Spring 2025 - Constituents w/ SSL	Fall 2025 - Constituents w/ SSL	Historic - Constituents w/ SSL	Spring 2025 - Constituents w/ SSL	Fall 2025 - Constituents w/ SSL	Total # of Samples in each monitoring program since October 15, 2014		
										Detection	Assessment	Corrective Action
MW-1	Glacial Till	Background through 2022	NC	None	None	None	None	None	None	17	0	0
MW-17	Glacial Till	Background	NC	None	None	None	None	None	None	23	0	0
MW-44	Glacial Till	Background	NC	None	None	None	None	None	None	5	0	0
MW-1d	Glacial Till	Assessment	NC	barium, benzene, chlorobenzene, chloroethane	None	None	None	None	None	0	6	0
MW-3	Glacial Till	Assessment	NC	copper, selenium, bis(2ethylhexyl)phthlate	None	None	None	None	None	0	23	0
MW-7	Glacial Till	Assessment	NC	arsenic, benzene, bis(2ethylhexyl)phthlate	arsenic	arsenic	None	None	None	0	23	0
MW-10	Glacial Till	Assessment	NC	arsenic, barium, zinc, acetone, benzene, bis(2-ethylhexyl)phthlate	arsenic, bis(2-ethylhexyl)phthlate	None	None	None	None	0	23	0
MW-13	Glacial Till	Detection	NC	None	None	None	None	None	None	23	0	0
MW-14	Glacial Till	Detection	NC	None	None	None - resample pending	None	None	None	23	0	0
MW-16	Glacial Till	Assessment	NC	arsenic, barium, 1,1-dichloroethane, 1,2-dichloropropane, 1,4-dichlorobenzene, benzene, chlorobenzene, cis-1,2-dichloroethylene, dichlorodifluoromethane, vinyl chloride	arsenic, 1,1-dichloroethane, 1,4-dichlorobenzene, benzene, chlorobenzene, cis-1,2-dichloroethylene	arsenic, barium, 1,4-dichlorobenzene, chlorobenzene	None	None	arsenic	0	23	0
MW-18	Glacial Till	Corrective Action	NC	arsenic, barium, zinc	arsenic	arsenic	arsenic	arsenic	arsenic	0	0	23
MW-19	Glacial Till	Assessment	NC	1,1-dichloroethane, acetone, benzene, chloroethane, cis-1,2-dichloroethylene, vinyl chloride	1,1-dichloroethane, cis-1,2-dichloroethylene	1,1-dichloroethane, cis-1,2-dichloroethylene	None	None	None	0	23	0
MW-20	Glacial Till	Corrective Action	NC	arsenic, barium, zinc, acetone, benzene, bis(2-ethylhexyl)phthalate, chlorobenzene, chloroethane	arsenic, barium, benzene	arsenic, barium, benzene, chlorobenzene	arsenic, barium	arsenic, barium	arsenic, barium	0	0	23
MW-53	Glacial Till	Detection	NC	None	None	None	None	None	None	4	0	0
GU-1	Glacial Till	Detection	NC	None	None	None	None	None	None	21	0	0
GU-2	Glacial Till	Detection	NC	None	None	None	None	None	None	0	0	0
GU-3	Glacial Till	Detection	NC	None	None	None	None	None	None	4	0	0
GU-4	Glacial Till	Detection	NC	None	None	None	None	None	None	4	0	0

= newly recorded

Table 2 – Monitoring Program Implementation Schedule

Table 2
Monitoring Program Implementation Schedule
Annual Water Quality Report
Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

Monitoring Well	Recent Sampling Dates and Constituents	Upcoming Sampling Dates and Constituents		Full Appendix II Sample Dates	
		March, 2026	September, 2026	Previously Collected	Next Event
MW-17 (background)		Appendix I	Appendix I		N/A
MW-44 (background)		Appendix I	Appendix I		
MW-1d		Appendix I	Appendix I	9/7/2023, 3/10/2025	2030
MW-3	See Table 2A	Appendix I	Appendix II	9/1/2016, 9/16/2021	2026
MW-7		Appendix I	Appendix I	3/25/2021, 9/1/2022	2027
MW-10		Appendix I	Appendix I	9/6/2018, 9/26/2019, 9/25/2024	2029
MW-13		Appendix I	Appendix I		
MW-14		Appendix I	Appendix I		
MW-16		Appendix I	Appendix II	9/1/2016, 9/16/2021	2026
MW-18		Appendix I	Appendix II	9/1/2016, 9/16/2021	2026
MW-19		Appendix I	Appendix I	3/21/2017, 3/16/2022	2027
MW-20		Appendix I	Appendix II	9/1/2016, 9/16/2021	2026
MW-53		Appendix I	Appendix I		
GU-1		Appendix I	Appendix I		
GU-2		Appendix I	Appendix I		
GU-3		Appendix I	Appendix I		
GU-4		Appendix I	Appendix I		

(1) = bis(2-ethylhexyl)phthalate

Table 2A – Summary of Testing to Data

Table 2A -- Itemized Summary of Hydrologic Monitoring (2018-present)

WELL	1/12/2018	3/9/2018	9/6/2018	12/18/2018
MW-1 (b)		Appendix I	Appendix I	
MW-17 (b)		Appendix I	Appendix I	
MW-3	R - Se	Appendix I	Appendix I	R - Se
MW-7		Appendix I	Appendix I	
MW-10		Appendix I	Appendix II	
MW-11		Appendix I	Appendix I	
MW-13	R - Se	Appendix I	Appendix I	
MW-14		Appendix I	Appendix I	R - Pb
MW-16	R - Ba	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	
MW-18	R - VOC	Appendix I	Appendix I	
MW-19		Appendix I	Appendix I	
MW-20		Appendix I	Appendix I	
GU-1		Appendix I	Appendix I	
Duplicate		At GU-1	At MW-10	

(1) Appendix I plus dichlorodifluoromethane

(R) = Resample

(2) Appendix I plus bis(2ethylhexyl)phthalate

WELL	3/7/2019	9/26/2019	12/17/2019
MW-1 (b)	Appendix I	Appendix I	
MW-17 (b)	Appendix I	Appendix I	
MW-3	Appendix I	Appendix I	
MW-7	Appendix I	Appendix I	R - As
MW-10	Appendix I ⁽²⁾	Appendix II	
MW-11	Appendix I	Appendix I	
MW-13	Appendix I	Appendix I	
MW-14	Appendix I	Appendix I	
MW-16	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	
MW-18	Appendix I	Appendix I	
MW-19	Appendix I	Appendix I	
MW-20	Appendix I	Appendix I	
GU-1	Appendix I	Appendix I	
Duplicate	At MW-10	At MW-17	

(1) Appendix I plus dichlorodifluoromethane

(R) = Resample

(2) Appendix I plus bis(2ethylhexyl)phthalate

WELL	4/2/2020	9/17/2020	12/5/2020
MW-1 (b)	Appendix I	Appendix I	
MW-17 (b)	Appendix I	Appendix I	
MW-3	Appendix I	Appendix I	
MW-7	Appendix I	Appendix I	R - As
MW-10	Appendix I ⁽²⁾	Appendix I ⁽²⁾	
MW-11	Appendix I	Appendix I	
MW-13	Appendix I	Appendix I	
MW-14	Appendix I	Appendix I	
MW-16	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	
MW-18	Appendix I	Appendix I	
MW-19	Appendix I	Appendix I	
MW-20	Appendix I	Appendix I	
GU-1	Appendix I	Appendix I	
Duplicate	At MW-3	At MW-18	

(1) Appendix I plus dichlorodifluoromethane

(R) = Resample

(2) Appendix I plus bis(2ethylhexyl)phthalate

WELL	3/25/2021	6/3/2021	9/16/2021	12/8/2021
MW-1 (b)	Appendix I	R – benzene, chloroethane	Appendix I	R - TCE
MW-17 (b)	Appendix I		Appendix I	
MW-3	Appendix I		Appendix II	
MW-7	Appendix II	Appendix I ⁽³⁾	Appendix I	
MW-10	Appendix I ⁽²⁾		Appendix I ⁽²⁾	
MW-11	Appendix I		Appendix I	
MW-13	Appendix I		Appendix I	
MW-14	Appendix I		Appendix I	
MW-16	Appendix I		Appendix II	
MW-18	Appendix I		Appendix II	
MW-19	Appendix I		Appendix I	
MW-20	Appendix I		Appendix II	
GU-1	Appendix I		<i>IDNR Study</i>	
Duplicate	At MW-14		At MW-3	

(1) Appendix I plus dichlorodifluoromethane

(R) = Resample

(2) Appendix I plus bis(2ethylhexyl)phthalate

IDNR Study = Pilot Underdrain Study by NPDES

(3) 1,1-dichloropropene & 2,4,5 T

WELL	3/16/2022	6/14/2022	9/1/2022	11/29/2022
MW-1 (b)	Appendix I	R - benzene	Appendix I	
MW-17 (b)	Appendix I		Appendix I	
MW-3	Appendix I ⁽²⁾		Appendix I	
MW-7	Appendix I		Appendix II	
MW-10	Appendix I		Appendix I	
MW-11	Appendix I		Appendix I	
MW-13	Appendix I		Appendix I	
MW-14	Appendix I		Appendix I	R - cd
MW-16	Appendix I		Appendix I	
MW-18	Appendix I		Appendix I	
MW-19	Appendix I		Appendix II	
MW-20	Appendix I ⁽²⁾		Appendix I ⁽²⁾	
GU-1	Appendix I		Appendix I	
Duplicate	At MW-17		At MW-18	

(1) Appendix I plus dichlorodifluoromethane

(R) = Resample

(2) Appendix I plus bis(2ethylhexyl)phthalate

WELL	3/24/2023	5/9/2023	9/7/2023	11/13/2023
MW-1d	Appendix I	R - benzene	Appendix II	
MW-17 (b)	Appendix I		Appendix I	
MW-3	Appendix I		Appendix I	
MW-7	Appendix I ⁽¹⁾		Appendix I	
MW-10	Appendix I		Appendix I	
MW-11	Appendix I		Appendix I	
MW-13	Appendix I		Appendix I	
MW-14	Appendix I		Appendix I	
MW-16	Appendix I		Appendix I	
MW-18	Appendix I		Appendix I	
MW-19	Appendix I		Appendix I	
MW-20	Appendix I		Appendix I	
GU-1	Appendix I		---	Dry
MW-44 (b)	---		---	Appendix I
MW-53	<i>pending</i>		<i>pending</i>	
Duplicate	At MW-3		At MW-20	

(1) (Appendix I plus bis(2ethylhexyl)phthalate

(R) = Resample

WELL	3/18/2024	8/1/2024	9/25/2024	11/25/2024
MW-1d	Appendix I		Appendix I	
MW-17 (b)	Appendix I		Appendix I	
MW-3	Appendix I		Appendix I	
MW-7	Appendix I		Appendix I	
MW-10	Appendix I		Appendix II	
MW-11	Appendix I		Appendix I	
MW-13	Appendix I		Appendix I	
MW-14	Appendix I		Appendix I	R - Cd
MW-16	Appendix I		Appendix I	
MW-18	Appendix I		Appendix I	
MW-19	Appendix I		---	
MW-19R	---		---	Appendix I
MW-20	Appendix I		Appendix I	
MW-44 (b)	Appendix I		---	Appendix I
MW-53	<i>pending</i>	Appendix I	Appendix I	
GU-1	Appendix I		Dry	Appendix I
GU-2	Dry		Dry	
GU-3	<i>pending</i>	Appendix I	Appendix I	
GU-4	<i>pending</i>	Appendix I	Appendix I	R - Zn
Duplicate	At MW-18		At MW-16	

(1) (Appendix I plus bis(2ethylhexyl)phthalate

(R) = Resample

WELL	3/10/2025	5/1/2025	9/8/2025	12/5/2025
MW-1d	Appendix II		Appendix I	
MW-17 (b)	Appendix I		Appendix I	
MW-3	Appendix I		Appendix I	
MW-7	Appendix I		Appendix I	
MW-10	Appendix I		Appendix I	
MW-11	Appendix I		Appendix I	
MW-13	Appendix I	R - Cd	Appendix I	
MW-14	Appendix I		Appendix I	R - Cd
MW-16	Appendix I		Appendix I	
MW-18	Appendix I		Appendix I	
MW-19R	Appendix I		Appendix I	
MW-20	Appendix I		Appendix I	
MW-44 (b)	Appendix I		Appendix I	
MW-53	Appendix I		Appendix I	
GU-1	Appendix I		Appendix I	
GU-2	Dry		Dry	
GU-3	Appendix I		Appendix I	R - Zn
GU-4	Appendix I		Appendix I	R - Zn
Duplicate	At MW-1D		At MW-16	

(2) (Appendix I plus bis(2ethylhexyl)phthalate

(R) = Resample

Table 3 – Monitoring Well Maintenance Performance Reevaluation
Schedule

Table 3
Monitoring Well Maintenance and Performance Revaluation Schedule
Annual Water Quality Report
Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

Compliance with:	Monitoring Calendar Years									
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
567 IAC 113.10(2)"f"(1) high and low water levels (biennial)	X	X	X	X	X	X	X	X	X	X
567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths (biennial)	X		X		X		X		X	
567 IAC 113.10(2)"f"(3) well depths (annual)	X	X	X	X	X	X	X	X	X	X
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry (biennial)	X		X		X		X		X	
Waste separation from ground water 113.6(2)"l"	X	X	X	X	X	X	X	X	X	X

Compliance with:	Monitoring Calendar Years									
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
567 IAC 113.10(2)"f"(1) high and low water levels (biennial)	X	X	P	P	P	P	P	P	P	P
567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths (biennial)	X		P		P		P		P	
567 IAC 113.10(2)"f"(3) well depths (annual)	X	X	P	P	P	P	P	P	P	P
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry (biennial)	X		P		P		P		P	
Waste separation from ground water 113.6(2)"l"	2X	2X	2P	2P	2P	2P	2P	2P	2P	2P

X = completed

P = Planned

N/A = Not Applicable

Table 4 – Monitoring Well Maintenance Performance Reevaluation
Summary

Table 4
Monitoring Well Maintenance and Performance Summary
Annual Water Quality Report
Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

Well	Top of casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)	Hydraulic Cond. (cm/sec)/date	Most Recent Recharge Rate	
					3/10/2025	9/8/2025			3/18/2024	Change
MW-1d	1185.49	1160.94	34.55	Groundwater Level (ft)	23.55	19.69	0	0.00001 2004	Full recovery in 24 hour	None percieved
				Groundwater Elevation (Ft MSL)	1161.94	1165.8				
				Measured Well Depth (ft)	34.55	34.55				
				Submerged (+) or Exposed screen (-)	1	4.86				
MW-3	1145.59	1115.84	39.75	Groundwater Level (ft)	20.89	21.9	0	0.00005 2004	Full recovery in 6 hour	None percieved
				Groundwater Elevation (Ft MSL)	1124.7	1123.69				
				Measured Well Depth (ft)	39.75	39.75				
				Submerged (+) or Exposed screen (-)	8.86	7.85				
MW-7	1118.81	1097.01	31.8	Groundwater Level (ft)	19.85	20.48	-0.02	0.00003 2004	Full recovery in 4 hour	None percieved
				Groundwater Elevation (Ft MSL)	1098.96	1098.33				
				Measured Well Depth (ft)	31.82	31.82				
				Submerged (+) or Exposed screen (-)	1.95	1.32				
MW-10	1151.88	1126.48	35.4	Groundwater Level (ft)	31.47	31.89	0	0.00002 2004	Full recovery in 4 hour	None percieved
				Groundwater Elevation (Ft MSL)	1120.41	1119.99				
				Measured Well Depth (ft)	35.4	35.4				
				Submerged (+) or Exposed screen (-)	-6.07	-6.49				
MW-13	1127.99	1095.11	42.88	Groundwater Level (ft)	17.67	18.5	0	0.000001 2004	Full recovery in > 24 hour	None percieved
				Groundwater Elevation (Ft MSL)	1110.32	1109.49				
				Measured Well Depth (ft)	42.88	42.88				
				Submerged (+) or Exposed screen (-)	15.21	14.38				
MW-14	1095.66	1082.91	22.75	Groundwater Level (ft)	10.16	16.66	0	0.00005 2004	Full recovery in 5 hour	None percieved
				Groundwater Elevation (Ft MSL)	1085.5	1079				
				Measured Well Depth (ft)	22.75	22.75				
				Submerged (+) or Exposed screen (-)	2.59	-3.91				
MW-16	1099.36	1069.36	40	Groundwater Level (ft)	11	14.09	0	0.00004 2004	Full recovery in 6 hour	None percieved
				Groundwater Elevation (Ft MSL)	1088.36	1085.27				
				Measured Well Depth (ft)	40	40				
				Submerged (+) or Exposed screen (-)	19	15.91				
MW-17	1159.5	1122.00	47.5	Groundwater Level (ft)	19.3	18.99	0	0.0000393 2023	Full recovery in 6 hour	None percieved
				Groundwater Elevation (Ft MSL)	1140.2	1140.51				
				Measured Well Depth (ft)	47.5	47.5				
				Submerged (+) or Exposed screen (-)	18.2	18.51				
MW-18	1130.69	1118.09	27.6	Groundwater Level (ft)	17.69	18.34	0	0.000471 2023	Full recovery in 6 hour	None percieved
				Groundwater Elevation (Ft MSL)	1113	1112.35				
				Measured Well Depth (ft)	27.6	27.6				
				Submerged (+) or Exposed screen (-)	-5.09	-5.74				
MW-19R	1131.46	1112.26	29.65	Groundwater Level (ft)	20.2	20.56	0	0.000367 2024	Full recovery in 1 hour	None percieved
				Groundwater Elevation (Ft MSL)	1111.26	1110.9				
				Measured Well Depth (ft)	29.65	29.65				
				Submerged (+) or Exposed screen (-)	-1	-1.36				
MW-20	1122.96	1107.66	25.3	Groundwater Level (ft)	18.31	18.81	0	0.000848 2023	Full recovery in 4 hour	None percieved
				Groundwater Elevation (Ft MSL)	1104.65	1104.15				
				Measured Well Depth (ft)	25.3	25.3				
				Submerged (+) or Exposed screen (-)	-3.01	-3.51				
MW-44	1166.36	1129.18	47.18	Groundwater Level (ft)	14.64	14.11	0	0.00000628 2020	Full recovery in 24 hour	None percieved
				Groundwater Elevation (Ft MSL)	1151.72	1152.25				
				Measured Well Depth (ft)	47.18	47.18				
				Submerged (+) or Exposed screen (-)	22.54	23.07				
MW-53	1107.26	1087.31	30.4	Groundwater Level (ft)	12.42	12.35	0	0.00000708 2024	Full recovery in 24 hour	None percieved
				Groundwater Elevation (Ft MSL)	1094.84	1094.91				
				Measured Well Depth (ft)	30.4	30.4				
				Submerged (+) or Exposed screen (-)	7.53	7.6				

Groundwater Underdrain Piezometer

Well		Date of Measurements	
		3/10/2025	9/8/2025
GPZ-1	Top of Casing Elevation	1116.07	1116.07
	Bottom GPZ Elevation (depth = 11.6 ft)	1104.47	1104.47
	Liquid Level (depth in ft)	11.3	11.6
	Liquid Elevation	1104.77	1104.47
	Liner Elevation @ GPZ-1	1110.00	1110.00
	Separation (ft)	5.23	5.53
GPZ-2	Top of Casing Elevation	1112.36	1112.36
	Bottom GPZ Elevation (depth = 14.6 ft)	1097.76	1097.76
	Liquid Level (depth in ft)	14.60	14.60
	Liquid Elevation	1097.76	1097.76
	Liner Elevation @ GPZ-2	1103.00	1103.00
	Separation (ft)	5.24	5.24

Table 4A– Summary of Historic Water Elevation Data

Well/TOC	MW-1 1185.49				MW-3 1145.59				MW-7 1118.81		
	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation
10/13/17	16.80	1168.69	1160.94	7.75	26.12	1119.47	1115.84	3.63	18.10	1100.71	1097.01
03/09/18	24.02	1161.47	1160.94	0.53	21.70	1123.89	1115.84	8.05	20.81	1098.00	1097.01
09/06/18	15.80	1169.69	1160.94	8.75	21.24	1124.35	1115.84	8.51	17.74	1101.07	1097.01
03/07/19	19.66	1165.83	1160.94	4.89	15.67	1129.92	1115.84	14.08	20.33	1098.48	1097.01
09/26/19	19.43	1166.06	1160.94	5.12	18.78	1126.81	1115.84	10.97	19.70	1099.11	1097.01
04/02/20	20.32	1165.17	1160.94	4.23	15.50	1130.09	1115.84	14.25	19.76	1099.05	1097.01
09/17/20	21.43	1164.06	1160.94	3.12	19.72	1125.87	1115.84	10.03	20.33	1098.48	1097.01
03/25/21	16.85	1168.64	1160.94	7.70	20.35	1125.24	1115.84	9.40	18.64	1100.17	1097.01
09/16/21	19.81	1165.68	1160.94	4.74	21.65	1123.94	1115.84	8.10	20.47	1098.34	1097.01
03/16/22	23.85	1161.64	1160.94	0.70	21.63	1123.96	1115.84	8.12	20.57	1098.24	1097.01
09/01/22	20.05	1165.44	1160.94	4.50	20.15	1125.44	1115.84	9.60	20.33	1098.48	1097.01
03/24/23	20.97	1164.52	1160.94	3.58	20.41	1125.18	1115.84	9.34	19.55	1099.26	1097.01
09/07/23	20.91	1164.58	1160.94	3.64	21.90	1123.69	1115.84	7.85	20.53	1098.28	1097.01
03/18/24	21.71	1163.78	1160.94	2.84	22.05	1123.54	1115.84	7.70	20.00	1098.81	1097.01
09/25/24	20.19	1165.30	1160.94	4.36	21.51	1124.08	1115.84	8.24	20.29	1098.52	1097.01
03/10/25	23.55	1161.94	1160.94	1.00	20.89	1124.70	1115.84	8.86	19.85	1098.96	1097.01
09/08/25	19.69	1165.80	1160.94	4.86	21.90	1123.69	1115.84	7.85	20.48	1098.33	1097.01
minimum	15.80	1161.47		0.53	15.50	1119.47		3.63	17.74	1098.00	
maximum	24.02	1169.69		8.75	26.12	1130.09		14.25	20.81	1101.07	
average				4.25				9.09			

 Exposed Screens

 Submerged Screens

	MW-10 1151.88			
above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS
3.70	27.25	1124.63	1126.48	-1.85
0.99	31.45	1120.43	1126.48	-6.05
4.06	26.65	1125.23	1126.48	-1.25
1.47	24.94	1126.94	1126.48	0.46
2.10	28.47	1123.41	1126.48	-3.07
2.04	22.96	1128.92	1126.48	2.44
1.47	30.06	1121.82	1126.48	-4.66
3.16	30.18	1121.70	1126.48	-4.78
1.33	31.06	1120.82	1126.48	-5.66
1.23	31.57	1120.31	1126.48	-6.17
1.47	30.70	1121.18	1126.48	-5.30
2.25	31.53	1120.35	1126.48	-6.13
1.27	31.80	1120.08	1126.48	-6.40
1.80	32.70	1119.18	1126.48	-7.30
1.51	32.09	1119.79	1126.48	-6.69
1.95	31.47	1120.41	1126.48	-6.07
1.32	31.89	1119.99	1126.48	-6.49
0.99	22.96	1119.18		-7.30
4.06	32.70	1128.92		2.44
1.95				-4.41

Well/TOC	MW-11 1140.3				MW-13 1127.99				MW-14 1095.66		
	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation
10/13/17	17.05	1123.25	1121.95	1.30	18.20	1109.79	1095.11	14.68	10.23	1085.43	1082.91
03/09/18	20.30	1120.00	1121.95	-1.95	18.21	1109.78	1095.11	14.67	11.92	1083.74	1082.91
09/06/18	16.19	1124.11	1121.95	2.16	17.96	1110.03	1095.11	14.92	10.44	1085.22	1082.91
03/07/19	15.51	1124.79	1121.95	2.84	16.32	1111.67	1095.11	16.56	11.48	1084.18	1082.91
09/26/19	17.30	1123.00	1121.95	1.05	17.52	1110.47	1095.11	15.36	11.90	1083.76	1082.91
04/02/20	13.77	1126.53	1121.95	4.58	16.96	1111.03	1095.11	15.92	11.08	1084.58	1082.91
09/17/20	19.66	1120.64	1121.95	-1.31	17.63	1110.36	1095.11	15.25	15.35	1080.31	1082.91
03/25/21	15.15	1125.15	1121.95	3.20	17.91	1110.08	1095.11	14.97	9.53	1086.13	1082.91
09/16/21	20.33	1119.97	1121.95	-1.98	18.20	1109.79	1095.11	14.68	14.82	1080.84	1082.91
03/16/22	20.75	1119.55	1121.95	-2.40	18.21	1109.78	1095.11	14.67	12.29	1083.37	1082.91
09/01/22	19.94	1120.36	1121.95	-1.59	17.73	1110.26	1095.11	15.15	15.60	1080.06	1082.91
03/24/23	19.54	1120.76	1121.95	-1.19	18.18	1109.81	1095.11	14.70	10.72	1084.94	1082.91
09/07/23	removed				18.16	1109.83	1095.11	14.72	15.70	1079.96	1082.91
03/18/24					18.30	1109.69	1095.11	14.58	12.00	1083.66	1082.91
09/25/24					17.72	1110.27	1095.11	15.16	15.11	1080.55	1082.91
03/10/25					17.67	1110.32	1095.11	15.21	10.16	1085.50	1082.91
09/08/25					18.50	1109.49	1095.11	14.38	16.66	1079.00	1082.91
minimum	13.77	1119.55		-2.40	16.32	1109.49		14.38	9.53	1079.00	
maximum	20.75	1126.53		4.58	18.50	1111.67		16.56	16.66	1086.13	
average				0.39				15.03			

	MW-16 1099.36			
above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS
2.52	9.80	1089.56	1069.36	20.20
0.83	11.90	1087.46	1069.36	18.10
2.31	10.29	1089.07	1069.36	19.71
1.27	10.91	1088.45	1069.36	19.09
0.85	11.50	1087.86	1069.36	18.50
1.67	10.26	1089.10	1069.36	19.74
-2.60	13.20	1086.16	1069.36	16.80
3.22	9.78	1089.58	1069.36	20.22
-2.07	13.61	1085.75	1069.36	16.39
0.46	11.75	1087.61	1069.36	18.25
-2.85	13.90	1085.46	1069.36	16.10
2.03	10.75	1088.61	1069.36	19.25
-2.95	14.54	1084.82	1069.36	15.46
0.75	11.95	1087.41	1069.36	18.05
-2.36	13.68	1085.68	1069.36	16.32
2.59	11.00	1088.36	1069.36	19.00
-3.91	14.09	1085.27	1069.36	15.91
-3.91	9.78	1084.82		15.46
3.22	14.54	1089.58		20.22
0.10				18.06

Well/TOC	MW-17 1159.5				MW-18 1130.69				MW-19 1127.7		
Date	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS	MW-19R 1131.46	2024	
10/13/17	11.71	1147.79	1122.00	25.79	10.49	1120.20	1118.09	2.11	18.72	1108.98	1112.95
03/09/18	15.15	1144.35	1122.00	22.35	18.57	1112.12	1118.09	-5.97	19.14	1108.56	1112.95
09/06/18	13.08	1146.42	1122.00	24.42	9.35	1121.34	1118.09	3.25	18.32	1109.38	1112.95
03/07/19	9.30	1150.20	1122.00	28.20	15.34	1115.35	1118.09	-2.74	18.25	1109.45	1112.95
09/26/19	11.66	1147.84	1122.00	25.84	13.16	1117.53	1118.09	-0.56	18.37	1109.33	1112.95
04/02/20	8.95	1150.55	1122.00	28.55	13.01	1117.68	1118.09	-0.41	17.88	1109.82	1112.95
09/17/20	12.70	1146.80	1122.00	24.80	18.60	1112.09	1118.09	-6.00	17.95	1109.75	1112.95
03/25/21	11.78	1147.72	1122.00	25.72	19.10	1111.59	1118.09	-6.50	18.38	1109.32	1112.95
09/16/21	15.30	1144.20	1122.00	22.20	18.39	1112.30	1118.09	-5.79	19.38	1108.32	1112.95
03/16/22	16.86	1142.64	1122.00	20.64	18.18	1112.51	1118.09	-5.58	19.20	1108.50	1112.95
09/01/22	14.27	1145.23	1122.00	23.23	18.18	1112.51	1118.09	-5.58	19.15	1108.55	1112.95
03/24/23	14.89	1144.61	1122.00	22.61	14.67	1116.02	1118.09	-2.07	19.15	1108.55	1112.95
09/07/23	17.20	1142.30	1122.00	20.30	18.71	1111.98	1118.09	-6.11	19.63	1108.07	1112.95
03/18/24	18.28	1141.22	1122.00	19.22	19.34	1111.35	1118.09	-6.74	19.27	1108.43	1112.95
09/25/24	18.27	1141.23	1122.00	19.23	17.97	1112.72	1118.09	-5.37	20.25	1111.21	1112.26
03/10/25	19.30	1140.20	1122.00	18.20	17.69	1113.00	1118.09	-5.09	20.20	1111.26	1112.95
09/08/25	18.99	1140.51	1122.00	18.51	18.34	1112.35	1118.09	-5.74	20.56	1110.90	1112.26
minimum	8.95	1140.20		18.20	9.35	1111.35		-6.74	17.88	1108.07	
maximum	19.30	1150.55		28.55	19.34	1121.34		3.25	20.56	1111.26	
average				22.93				-3.82			

	MW-20 1122.96			
above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS
-3.97	18.32	1104.64	1107.66	-3.02
-4.39	18.86	1104.10	1107.66	-3.56
-3.57	18.38	1104.58	1107.66	-3.08
-3.50	18.23	1104.73	1107.66	-2.93
-3.62	18.15	1104.81	1107.66	-2.85
-3.13	17.80	1105.16	1107.66	-2.50
-3.20	18.45	1104.51	1107.66	-3.15
-3.63	18.27	1104.69	1107.66	-2.97
-4.63	18.70	1104.26	1107.66	-3.40
-4.45	18.73	1104.23	1107.66	-3.43
-4.40	18.57	1104.39	1107.66	-3.27
-4.40	18.28	1104.68	1107.66	-2.98
-4.88	18.80	1104.16	1107.66	-3.50
-4.52	18.64	1104.32	1107.66	-3.34
-1.05	18.61	1104.35	1107.66	-3.31
-1.69	18.31	1104.65	1107.66	-3.01
-1.36	18.81	1104.15	1107.66	-3.51
-4.88	17.80	1104.10		-3.56
-1.05	18.86	1105.16		-2.50
-3.55				-3.17

Water Elevation Data
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Well/TOC	MW-44 1166.36				MW-53 1107.26			
Date	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS
3/16/2022	14.23	1152.13	1129.18	22.95				
9/7/2023	16.00	1150.36	1129.18	21.18				
3/18/2024	15.95	1150.41	1129.18	21.23				
9/25/2024	13.93	1152.43	1129.18	23.25	18.61	1088.65	1087.26	1.39
3/10/2025	14.64	1151.72	1129.18	22.54	12.42	1094.84	1087.26	7.58
9/8/2025	14.11	1152.25	1129.18	23.07	12.35	1094.91	1087.26	7.65
minimum	13.93	1150.36		21.18	12.35	1088.65		1.39
maximum	16.00	1152.43		23.25	18.61	1094.91		7.65
average				22.37				5.54

Table 5 – Background and GWPS Summary

Table 5
Background and GWPS Summary
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Interwell Background Wells (MW-1 prior to 2023, MW-17, and MW-44)

Inorganics - Appendix I										
Constituent	Units	Model Type	Samples - N	Detections	Mean	SD	Prediction Limit	Confidence	GWPS	Source
Antimony (Sb)	µg/l	nonparametric	47	0			2.0000	0.99	6	SS
Arsenic (As)	µg/l	nonparametric	47	1			5.6000	0.99	10	SS
Barium (Ba)	µg/l	normal	47	47	243.1617	202.1711	735.5741		2000	SS
Beryllium (Be)	µg/l	nonparametric	45	0			4.0000	0.99	4	SS
Cadmium (Cd)	µg/l	nonparametric	46	4			1.4000	0.99	5	SS
Chromium (Cr)	µg/l	nonparametric	45	1			8.9000	0.99	100	SS
Cobalt (Co)	µg/l	nonparametric	47	11			30.6000	0.99	30.6	Site
Copper (Cu)	µg/l	nonparametric	47	2			11.6000	0.99	1300	SS
Lead (Pb)	µg/l	nonparametric	45	3			7.4000	0.99	15	SS
Nickel (Ni)	µg/l	nonparametric	47	12			60.4000	0.99	100	SS
Selenium (Se)	µg/l	nonparametric	47	1			4.0000	0.99	50	SS
Silver (Ag)	µg/l	nonparametric	47	0			4.0000	0.99	100	SS
Thallium (Tl)	µg/l	nonparametric	45	0			2.0000	0.99	2	SS
Vanadium (V)	µg/l	nonparametric	45	0			20.0000	0.99	35	SS
Zinc (Zn)	µg/l	nonparametric	47	11			69.2000	0.99	2000	SS
VOC - Appendix I										
Constituent	Units	Model Type	Samples - N	Detections	Mean	SD	Prediction Limit	Confidence	GWPS	Source
All	µg/l	DQR	47	0	<1	<1	<1	<1	various	SS

= Prediction limit exceeds the GWPS. A Site-Specific GWPS is warranted

Table 6 – Summary of Detections

Table 6
Summary of Well/Detected Constituent Pairs that Exceed the Prediction Limit
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Well	Constituent	Date	Most recent result (ug/L)	Background Standard (ug/L)	GWPS (ug/L)	Monitoring Program
MW-1d	None					Assessment Monitoring Well
MW-3	None					Assessment Monitoring Well
MW-7	Arsenic	3/10/2025	6.6	5.6	10	Assessment Monitoring Well
MW-7	Arsenic	9/8/2025	8.4	5.6	10	Assessment Monitoring Well
MW-10	Arsenic	3/10/2025	10.8	5.6	10	Assessment Monitoring Well
MW-10	bis(2-ethylhexyl)phthalate	3/10/2025	10.0	6.0	6	Assessment Monitoring Well
MW-16	Arsenic	3/10/2025	24.0	5.6	10	Assessment Monitoring Well
MW-16	Arsenic	9/8/2025	45.8	5.6	10	Assessment Monitoring Well
MW-16	Barium	9/8/2025	1110.0	735.57	2000	Assessment Monitoring Well
MW-16	1,1-Dichloroethane	3/10/2025	1.2	1.0	140	Assessment Monitoring Well
MW-16	1,4-dichlorobenzene	3/10/2025	1.2	1.0	75	Assessment Monitoring Well
MW-16	1,4-dichlorobenzene	9/8/2025	1.5	1.0	75	Assessment Monitoring Well
MW-16	Benzene	3/10/2025	1.1	1.0	5	Assessment Monitoring Well
MW-16	Chlorobenzene	3/10/2025	2.7	1.0	100	Assessment Monitoring Well
MW-16	Chlorobenzene	9/8/2025	4.3	1.0	100	Assessment Monitoring Well
MW-16	cis-1,2-dichloroethylene	3/10/2025	1.3	1.0	70	Assessment Monitoring Well
MW-18	Arsenic	3/10/2025	31.2	5.6	10	Corrective Action Monitoring Well
MW-18	Arsenic	9/8/2025	40.3	5.6	10	Corrective Action Monitoring Well
MW-19R	1,1-dichloroethane	3/10/2025	2.7	1.0	140	Assessment Monitoring Well
MW-19R	1,1-dichloroethane	9/8/2025	2.7	1.0	140	Assessment Monitoring Well
MW-19R	cis-1,2-dichloroethylene	3/10/2025	2.0	1.0	70	Assessment Monitoring Well
MW-19R	cis-1,2-dichloroethylene	9/8/2025	2.4	1.0	70	Assessment Monitoring Well
MW-20	Arsenic	3/10/2025	31.2	5.6	10	Corrective Action Monitoring Well
MW-20	Arsenic	9/8/2025	59.7	5.6	10	Corrective Action Monitoring Well
MW-20	Barium	3/10/2025	1640	748.34	2000	Corrective Action Monitoring Well
MW-20	Barium	9/8/2025	1860	735.57	2000	Corrective Action Monitoring Well
MW-20	benzene	3/10/2025	1.1	1.0	5	Corrective Action Monitoring Well
MW-20	benzene	9/8/2025	1.2	1.0	5	Corrective Action Monitoring Well
MW-20	chlorobenzene	9/8/2025	1.0	1.0	100	Corrective Action Monitoring Well
GU-3*	Zinc	8/1/2024	173.0	69.2	2000	Detection Monitoring Well - see Intrawell Statistics
GU-3*	Zinc	9/25/2024	<20	69.2	2000	Detection Monitoring Well - see Intrawell Statistics
GU-3*	Zinc	11/25/2024	NT	69.2	2000	Detection Monitoring Well - see Intrawell Statistics
GU-3*	Zinc	3/10/2025	120.0	69.2	2000	Detection Monitoring Well - see Intrawell Statistics
GU-3*	Zinc	9/8/2025	370.0	69.2	2000	Detection Monitoring Well - see Intrawell Statistics
GU-4*	Zinc	8/1/2024	67.2	69.2	2000	Detection Monitoring Well - see Intrawell Statistics
GU-4*	Zinc	9/25/2024	106.0	69.2	2000	Detection Monitoring Well - see Intrawell Statistics
GU-4*	Zinc	11/25/2024	127.0	69.2	2000	Detection Monitoring Well - see Intrawell Statistics
GU-4*	Zinc	3/10/2025	58.9	69.2	2000	Detection Monitoring Well - see Intrawell Statistics
GU-4*	Zinc	9/8/2025	128.0	69.2	2000	Detection Monitoring Well - see Intrawell Statistics

*Note: Testing at GU-3 and GU-4 was initiated prior to waste placement. Intrawell statistical evaluation will be applied as sufficient data becomes available.

Table 7 – Summary of Ongoing and Newly Identified SSI

Table 7
Summary of Ongoing & Newly Identified SSI
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KEY:	SSI	SSL LCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-1d	Barium	9/7/2023	660	754.8120	---	2000		NA	9/8/2025
MW-1d	Barium	3/18/2024	784	776.0663	---	2000		NA	9/8/2025
MW-1d	Barium	9/25/2024	637	769.2044	---	2000		NA	9/8/2025
MW-1d	Barium	3/10/2025	704	748.3411	---	2000		NA	9/8/2025
MW-1d	Barium	9/8/2025	657	735.5741	---	2000		NA	9/8/2025
MW-1d	Benzene	9/7/2023	1.1	1	---	5	5/9/2023	NA	9/8/2025
MW-1d	Benzene	3/18/2024	1.3	1	---	5	5/9/2023	NA	9/8/2025
MW-1d	Benzene	9/25/2024	<1.0	1	---	5	5/9/2023	NA	9/8/2025
MW-1d	Benzene	3/10/2025	<1.0	1	0.293	5	5/9/2023	NA	9/8/2025
MW-1d	Benzene	9/8/2025	<1.0	1	0.293	5	5/9/2023	NA	9/8/2025
MW-1d	Chlorobenzene	9/7/2023	1.0	1	---	100	9/7/2023	NA	9/8/2025
MW-1d	Chlorobenzene	3/18/2024	1.5	1	---	100	9/7/2023	NA	9/8/2025
MW-1d	Chlorobenzene	9/25/2024	<1.0	1	---	100	9/7/2023	NA	9/8/2025
MW-1d	Chlorobenzene	3/10/2025	<1.0	1	0.500	100	9/7/2023	NA	9/8/2025
MW-1d	Chlorobenzene	9/8/2025	<1.0	1	0.500	100	9/7/2023	NA	9/8/2025
MW-1d	Cloroethane	9/7/2023	1.0	1	---	2800	5/9/2023	NA	9/8/2025
MW-1d	Cloroethane	3/18/2024	1.1	1	---	2800	5/9/2023	NA	9/8/2025
MW-1d	Cloroethane	9/25/2024	<1.0	1	---	2800	5/9/2023	NA	9/8/2025
MW-1d	Cloroethane	3/10/2025	<1.0	1	0.357	2800	5/9/2023	NA	9/8/2025
MW-1d	Cloroethane	9/8/2025	<1.0	1	0.357	2800	5/9/2023	NA	9/8/2025

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KEY:	SSI	SSL LCL>GWPS

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-3	Copper	9/17/2014	<4.0	11.6	---	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	4/28/2015	<4.0	11.6	---	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	10/6/2015	<4.0	11.6	---	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	4/23/2016	<4.0	11.6	---	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	9/1/2016	<4.0	11.6	---	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	3/21/2017	<4.0	11.6	---	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	10/13/2017	<4.0	11.6	---	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	3/9/2018	<4.0	11.6	---	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	9/6/2018	<4.0	11.6	---	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	3/7/2019	<4.0	11.6	---	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	9/26/2019	<4.0	11.6	---	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	4/2/2020	<4.0	11.6	---	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	9/17/2020	4.40	11.6	2.000	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	3/25/2021	<4.0	11.6	2.000	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	9/16/2021	<4.0	11.6	2.000	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	3/16/2022	12.00	11.6	0.998	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	9/1/2022	<4.0	11.6	0.170	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	3/24/2023	<4.0	11.6	0.170	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	9/7/2023	<4.0	11.6	0.170	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	3/18/2024	<4.0	11.6	0.170	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	9/25/2024	<4.0	11.6	0.170	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	3/10/2025	<4.0	11.6	2.000	1300	3/16/2022	NA	9/1/2016
MW-3	Copper	9/8/2025	<5.0	11.6	2.000	1300	3/16/2022	NA	9/1/2016

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MW-3	Selenium	9/17/2014	<4.0	4.00	---	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	4/28/2015	5.80	4.00	---	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	10/6/2015	<4.0	4.00	---	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	4/23/2016	4.60	4.00	---	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	9/1/2016	4.20	4.00	---	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	3/21/2017	4.00	4.00	---	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	10/13/2017	4.20	4.00	---	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	1/12/2018	6.10	4.00	---	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	3/9/2018	4.50	4.00	---	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	9/6/2018	4.20	4.00	---	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	3/7/2019	7.50	4.00	---	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	9/26/2019	9.80	4.00	---	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	4/2/2020	<4.0	4.00	---	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	9/17/2020	5.00	4.00	3.174	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	3/25/2021	<4.0	4.00	1.511	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	9/16/2021	<4.0	4.00	0.986	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	3/16/2022	<4.0	4.00	0.986	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	9/1/2022	5.00	4.00	0.986	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	3/24/2023	4.80	4.00	1.478	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	9/7/2023	<4.0	4.00	1.478	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	3/18/2024	<4.0	4.00	1.478	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	9/25/2024	<4.0	4.00	1.478	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	3/10/2025	<4.0	4.00	2.000	50	4/28/2015	NA	9/1/2016
MW-3	Selenium	9/8/2025	3.80	4.00	2.000	50	4/28/2015	NA	9/1/2016

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-7	Arsenic	9/17/2014	<4.0	5.6	2.000	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	4/28/2015	<4.0	5.6	2.000	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	10/6/2015	<4.0	5.6	2.000	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	4/23/2016	<4.0	5.6	2.000	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	9/1/2016	<4.0	5.6	2.000	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	3/21/2017	<4.0	5.6	2.000	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	10/13/2017	<4.0	5.6	2.000	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	3/9/2018	<4.0	5.6	2.000	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	9/6/2018	<4.0	5.6	2.000	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	3/7/2019	<4.0	5.6	2.000	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	9/26/2019	8.20	5.6	0.865	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	12/17/2019	4.70	5.6	1.679	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	4/2/2020	<4.0	5.6	1.679	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	9/17/2020	6.90	5.6	3.098	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	12/3/2020	7.20	5.6	3.116	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	3/25/2021	<4.0	5.6	1.998	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	9/16/2021	<4.0	5.6	1.998	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	3/16/2022	4.30	5.6	0.972	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	9/1/2022	5.70	5.6	1.355	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	3/24/2023	<4.0	5.6	1.355	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	9/7/2023	8.80	5.6	1.855	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	3/18/2024	5.40	5.6	2.205	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	9/25/2024	9.00	5.6	2.408	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	3/10/2025	6.60	5.6	5.396	10	9/26/2019	NA	9/1/2016
MW-7	Arsenic	9/8/2025	8.40	5.6	5.406	10	9/26/2019	NA	9/1/2016

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-7	bis(2-ethylhexyl)phthalate	9/17/2014	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	4/28/2015	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	10/6/2015	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	4/23/2016	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	9/1/2016	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	3/21/2017	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	10/13/2017	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	3/9/2018	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	9/6/2018	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	3/7/2019	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	9/26/2019	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	12/17/2019	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	4/2/2020	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	9/17/2020	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	12/3/2020	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	3/25/2021	<6	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	9/16/2021	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	3/16/2022	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	9/1/2022	9.00	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	3/24/2023	<6	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	9/7/2023	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	3/18/2024	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	9/25/2024	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	3/10/2025	NT	6	---	6	9/26/2019	NA	9/1/2022
MW-7	bis(2-ethylhexyl)phthalate	9/8/2025	NT	6	---	6	9/26/2019	NA	9/1/2022

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-10	Arsenic	9/17/2014	18.20	5.6	---	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	4/28/2015	6.50	5.6	---	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	10/6/2015	7.10	5.6	---	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	4/23/2016	16.70	5.6	6.769	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	9/1/2016	9.20	5.6	5.809	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	3/21/2017	<4.0	5.6	3.466	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	10/13/2017	18.20	5.6	5.055	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	3/9/2018	7.70	5.6	3.464	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	9/6/2018	47.80	5.6	1.270	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	3/7/2019	4.10	5.6	2.282	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	9/26/2019	11.30	5.6	0.176	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	4/2/2020	38.60	5.6	7.226	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	9/17/2020	<4.0	5.6	0.000	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	3/25/2021	8.70	5.6	1.192	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	9/16/2021	<4.0	5.6	0.000	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	3/16/2022	26.60	5.6	0.000	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	9/1/2022	<4.0	5.6	0.000	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	3/24/2023	<4.0	5.6	0.000	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	9/7/2023	<4.0	5.6	0.000	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	3/18/2024	<4.0	5.6	2.000	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	9/25/2024	5.20	5.6	0.918	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	3/10/2025	10.80	5.6	0.118	10	9/17/2014	NA	9/1/2016
MW-10	Arsenic	9/8/2025	<2.0	5.6	0.118	10	9/17/2014	NA	9/1/2016

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MW-10	Barium	9/17/2014	651.0	744.8651	---	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	4/28/2015	549.0	744.8651	---	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	10/6/2015	481.0	744.8651	---	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	4/23/2016	859.0	744.8651	492.220	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	9/1/2016	420.0	744.8651	408.303	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	3/21/2017	370.0	744.8651	339.940	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	10/13/2017	685.0	744.8651	384.429	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	3/9/2018	342.0	744.8651	318.128	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	9/6/2018	761.0	744.8651	353.779	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	3/7/2019	661.0	744.8651	451.914	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	9/26/2019	483.0	744.8651	400.472	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	4/2/2020	871.0	744.8651	551.322	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	9/17/2020	550.0	744.8651	494.158	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	3/25/2021	1070.0	744.8651	504.669	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	9/16/2021	449.0	744.8651	486.634	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	3/16/2022	1950.0	744.8651	197.352	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	9/1/2022	441.0	744.8651	139.810	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	3/24/2023	524.0	762.2866	0.000	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	9/7/2023	553.0	754.8120	15.887	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	3/18/2024	465.0	776.0663	434.936	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	9/25/2024	575.0	769.2044	473.195	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	3/10/2025	494.0	748.3411	461.760	2000	4/23/2016	NA	9/1/2016
MW-10	Barium	9/8/2025	402.0	735.5741	399.542	2000	4/23/2016	NA	9/1/2016

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MW-10	Zinc	9/17/2014	16.40	32.0	---	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	4/28/2015	11.10	32.0	---	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	10/6/2015	19.70	32.0	---	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	4/23/2016	<20	32.0	10.353	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	9/1/2016	<8	32.0	5.598	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	3/21/2017	<8	32.0	3.007	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	10/13/2017	<8	32.0	2.902	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	3/9/2018	<8	32.0	4.000	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	9/6/2018	34.90	32.0	0.000	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	3/7/2019	<8	32.0	0.000	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	9/26/2019	17.70	32.0	2.450	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	4/2/2020	<20	32.0	5.048	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	9/17/2020	<20	32.0	5.563	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	3/25/2021	<20	32.0	8.591	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	9/16/2021	<20	32.0	10.000	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	3/16/2022	207.0	32.0	0.000	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	9/1/2022	<20	32.0	0.000	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	3/24/2023	<20	32.0	0.000	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	9/7/2023	<20	32.0	0.000	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	3/18/2024	28.3	69.2	0.000	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	9/25/2024	<20	69.2	3.812	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	9/25/2024	<20	69.2	3.812	2000	9/6/2018	NA	9/1/2016
MW-10	Zinc	9/25/2024	5.8	69.2	1.707	2000	9/6/2018	NA	9/1/2016

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-10	bis(2-ethylhexyl)phthalate	9/17/2014	NT	6.0	---	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	4/28/2015	NT	6.0	---	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	10/6/2015	NT	6.0	---	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	4/23/2016	NT	6.0	---	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	9/1/2016	NT	6.0	---	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	3/21/2017	NT	6.0	---	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	10/13/2017	NT	6.0	---	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	3/9/2018	NT	6.0	---	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	9/6/2018	8.0	6.0	---	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	3/7/2019	<6	6.0	---	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	9/26/2019	<6	6.0	---	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	4/2/2020	14.0	6.0	0.850	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	9/17/2020	<6	6.0	0.000	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	3/25/2021	<6	6.0	0.000	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	9/16/2021	<6	6.0	0.000	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	3/16/2022	NT	6.0	0.000	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	9/1/2022	NT	6.0	0.000	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	3/24/2023	NT	6.0	0.000	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	9/7/2023	NT	6.0	0.000	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	3/18/2024	NT	6.0	0.000	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	9/25/2024	NT	6.0	0.000	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	3/10/2025	10.0	6.0	0.000	6.0	9/6/2018	NA	9/17/2020
MW-10	bis(2-ethylhexyl)phthalate	9/8/2025	NT	6.0	0.000	6.0	9/6/2018	NA	9/17/2020

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

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MW-16	Arsenic	9/18/2014	34.30	5.6	---	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	4/28/2015	38.50	5.6	---	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	10/6/2015	<4.0	5.6	---	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	4/23/2016	<4.0	5.6	1.936	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	9/1/2016	<4.0	5.6	0.000	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	3/21/2017	9.30	5.6	0.664	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	10/13/2017	19.00	5.6	1.099	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	3/9/2018	<4.0	5.6	1.099	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	9/6/2018	<4.0	5.6	1.099	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	9/26/2019	6.30	5.6	0.360	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	4/2/2020	9.30	5.6	1.812	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	9/17/2020	6.50	5.6	3.416	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	3/25/2021	21.20	5.6	4.719	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	9/16/2021	10.40	5.6	6.268	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	3/16/2022	26.50	5.6	5.224	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	9/1/2022	4.70	5.6	4.016	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	3/24/2023	4.30	5.6	0.000	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	9/7/2023	<4.0	5.6	0.000	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	3/18/2024	20.40	5.6	0.000	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	9/25/2024	26.20	5.6	0.000	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	3/10/2025	24.00	5.6	5.177	10	9/17/2014	NA	9/1/2016
MW-16	Arsenic	9/8/2025	45.80	5.6	15.705	10	9/17/2014	NA	9/1/2016

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MW-16	Barium	9/18/2014	1130.0	744.8651	---	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	4/28/2015	1370.0	744.8651	---	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	10/6/2015	790.0	744.8651	---	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	4/23/2016	779.0	744.8651	769.485	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	9/1/2016	711.0	744.8651	646.635	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	3/21/2017	867.0	744.8651	731.413	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	10/13/2017	1020.0	744.8651	728.688	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	1/12/2018	818.0	744.8651	742.791	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	3/9/2018	668.0	744.8651	717.597	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	9/6/2018	719.0	744.8651	671.572	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	9/26/2019	796.0	744.8651	690.198	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	4/2/2020	925.0	744.8651	680.163	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	9/17/2020	806.0	744.8651	737.830	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	3/25/2021	1010.0	744.8651	795.671	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	9/16/2021	798.0	744.8651	796.667	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	3/16/2022	1010.0	744.8651	764.689	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	9/1/2022	655.0	744.8651	663.837	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	3/24/2023	481.0	762.2866	472.531	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	9/7/2023	311.0	754.8120	262.676	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	3/18/2024	713.0	776.0663	326.235	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	9/25/2024	756.0	769.2044	320.427	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	3/10/2025	697.0	748.3411	375.753	2000	4/23/2016	NA	9/1/2016
MW-16	Barium	9/8/2025	1110.0	735.5741	588.926	2000	4/23/2016	NA	9/1/2016

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-16	1,1-dichloroethane	9/18/2014	2.0	1	---	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	4/28/2015	2.2	1	---	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	10/6/2015	1.9	1	---	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	4/23/2016	2.5	1	1.921	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	9/1/2016	1.9	1	1.876	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	3/21/2017	1.6	1	1.648	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	10/13/2017	1.8	1	1.615	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	3/9/2018	2.4	1	1.630	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	9/6/2018	<1	1	0.888	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	3/7/2019	1.7	1	0.911	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	9/26/2019	1.3	1	0.788	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	4/2/2020	<1	1	0.480	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	9/17/2020	<1	1	0.480	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	3/25/2021	1.2	1	0.498	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	9/16/2021	<1	1	0.372	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	3/16/2022	1.9	1	0.237	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	9/1/2022	<1	1	0.237	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	3/24/2023	<1	1	0.270	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	9/7/2023	<1	1	0.270	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	3/18/2024	1.0	1	0.331	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	9/25/2024	<1	1	0.331	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	3/10/2025	1.2	1	0.381	140	9/18/2014	NA	9/1/2016
MW-16	1,1-dichloroethane	9/8/2025	<1	1	0.381	140	9/18/2014	NA	9/1/2016

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MW-16	1,2-dichloropropane	9/18/2014	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	4/28/2015	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	10/6/2015	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	4/23/2016	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	9/1/2016	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	3/21/2017	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	10/13/2017	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	3/9/2018	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	9/6/2018	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	3/7/2019	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	9/26/2019	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	4/2/2020	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	9/17/2020	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	3/25/2021	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	9/16/2021	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	3/16/2022	1.0	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	9/1/2022	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	3/24/2023	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	9/7/2023	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	3/18/2024	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	9/25/2024	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	3/10/2025	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-16	1,2-dichloropropane	9/8/2025	<1	1	0.500	5	3/16/2022	NA	9/1/2016

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MW-16	1,4-dichlorobenzene	9/18/2014	<1	1	---	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	4/28/2015	1.5	1	---	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	10/6/2015	2.0	1	---	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	4/23/2016	1.6	1	0.848	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	9/1/2016	2.1	1	1.545	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	3/21/2017	2.6	1	1.719	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	10/13/2017	2.0	1	1.719	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	3/9/2018	1.8	1	1.830	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	9/6/2018	2.7	1	1.892	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	3/7/2019	3.8	1	1.793	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	9/26/2019	<1	1	0.990	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	4/2/2020	<1	1	0.446	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	9/17/2020	1.8	1	0.300	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	3/25/2021	1.8	1	0.500	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	9/16/2021	2.2	1	0.933	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	3/16/2022	2.1	1	1.733	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	9/1/2022	<1	1	0.726	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	3/24/2023	<1	1	0.203	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	9/7/2023	<1	1	0.000	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	3/18/2024	1.8	1	0.060	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	9/25/2024	<1	1	0.060	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	3/10/2025	1.2	1	0.262	75	4/28/2015	NA	9/1/2016
MW-16	1,4-dichlorobenzene	9/8/2025	1.5	1	0.595	75	4/28/2015	NA	9/1/2016

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-16	benzene	9/18/2014	<1	1	---	5	10/6/2015	NA	9/1/2016
MW-16	benzene	4/28/2015	<1	1	---	5	10/6/2015	NA	9/1/2016
MW-16	benzene	10/6/2015	1.0	1	---	5	10/6/2015	NA	9/1/2016
MW-16	benzene	4/23/2016	<1	1	0.408	5	10/6/2015	NA	9/1/2016
MW-16	benzene	9/1/2016	1.2	1	0.492	5	10/6/2015	NA	9/1/2016
MW-16	benzene	3/21/2017	1.3	1	0.692	5	10/6/2015	NA	9/1/2016
MW-16	benzene	10/13/2017	1.1	1	0.714	5	10/6/2015	NA	9/1/2016
MW-16	benzene	3/9/2018	<1	1	0.714	5	10/6/2015	NA	9/1/2016
MW-16	benzene	9/6/2018	1.7	1	0.717	5	10/6/2015	NA	9/1/2016
MW-16	benzene	3/7/2019	2.1	1	0.744	5	10/6/2015	NA	9/1/2016
MW-16	benzene	9/26/2019	<1	1	0.486	5	10/6/2015	NA	9/1/2016
MW-16	benzene	4/2/2020	1.6	1	0.882	5	10/6/2015	NA	9/1/2016
MW-16	benzene	9/17/2020	<1	1	0.477	5	10/6/2015	NA	9/1/2016
MW-16	benzene	3/25/2021	1.5	1	0.499	5	10/6/2015	NA	9/1/2016
MW-16	benzene	9/16/2021	1.3	1	0.793	5	10/6/2015	NA	9/1/2016
MW-16	benzene	3/16/2022	1.6	1	0.638	5	10/6/2015	NA	9/1/2016
MW-16	benzene	9/1/2022	<1	1	0.638	5	10/6/2015	NA	9/1/2016
MW-16	benzene	3/24/2023	<1	1	0.314	5	10/6/2015	NA	9/1/2016
MW-16	benzene	9/7/2023	<1	1	0.128	5	10/6/2015	NA	9/1/2016
MW-16	benzene	3/18/2024	1.5	1	0.162	5	10/6/2015	NA	9/1/2016
MW-16	benzene	9/25/2024	<1	1	0.162	5	10/6/2015	NA	9/1/2016
MW-16	benzene	3/10/2025	1.1	1	0.324	5	10/6/2015	NA	9/1/2016
MW-16	benzene	9/8/2025	<1	1	0.324	5	10/6/2015	NA	9/1/2016

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KEY:	SSI	SSL LCL>GWPS

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-16	chlorobenzene	9/18/2014	4.3	1	---	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	4/28/2015	4.4	1	---	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	10/6/2015	4.9	1	---	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	4/23/2016	3.5	1	3.773	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	9/1/2016	6.0	1	3.797	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	3/21/2017	6.4	1	4.075	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	10/13/2017	5.1	1	4.135	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	3/9/2018	4.7	1	4.870	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	9/6/2018	8.1	1	7.748	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	3/7/2019	9.7	1	4.817	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	9/26/2019	4.8	1	4.674	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	4/2/2020	8.8	1	6.000	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	9/17/2020	4.7	1	4.727	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	3/25/2021	5.8	1	4.366	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	9/16/2021	7.3	1	5.103	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	3/16/2022	5.2	1	4.242	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	9/1/2022	2.1	1	2.528	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	3/24/2023	3.0	1	1.658	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	9/7/2023	<1	1	0.393	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	3/18/2024	5.2	1	0.393	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	9/25/2024	2.3	1	0.464	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	3/10/2025	2.7	1	0.397	100	9/18/2014	NA	9/1/2016
MW-16	chlorobenzene	9/8/2025	4.3	1	2.025	100	9/18/2014	NA	9/1/2016

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MW-16	cis-1,2-dichloroethylene	9/18/2014	<1	1	---	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	4/28/2015	<1	1	---	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	10/6/2015	<1	1	---	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	4/23/2016	<1	1	0.500	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	9/1/2016	1.1	1	0.390	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	3/21/2017	<1	1	0.390	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	10/13/2017	1.2	1	0.498	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	3/9/2018	<1	1	0.498	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	9/6/2018	<1	1	0.372	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	3/7/2019	1.4	1	0.494	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	9/26/2019	<1	1	0.335	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	4/2/2020	<1	1	0.335	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	9/17/2020	<1	1	0.335	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	3/25/2021	1.3	1	0.354	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	9/16/2021	<1	1	0.354	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	3/16/2022	2.1	1	0.199	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	9/1/2022	<1	1	0.199	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	3/24/2023	<1	1	0.000	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	9/7/2023	<1	1	0.000	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	3/18/2024	<1	1	0.500	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	9/25/2024	<1	1	0.500	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	3/10/2025	1.3	1	0.229	70	9/1/2016	NA	9/1/2016
MW-16	cis-1,2-dichloroethylene	9/8/2025	<1	1	0.229	70	9/1/2016	NA	9/1/2016

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-16	dichlorodifluoromethane	9/18/2014	3.6	1	---	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	4/28/2015	2.6	1	---	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	10/6/2015	2.9	1	---	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	4/23/2016	3.2	1	2.705	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	9/1/2016	3.6	1	2.705	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	3/21/2017	2.2	1	2.463	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	10/13/2017	1.6	1	1.858	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	3/9/2018	3.0	1	1.838	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	9/6/2018	<1	1	0.913	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	3/7/2019	4.6	1	0.888	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	9/26/2019	<1	1	0.406	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	4/2/2020	<1	1	0.000	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	9/17/2020	<1	1	0.000	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	3/25/2021	NT	1	0.000	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	9/16/2021	<1	1	0.500	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	3/16/2022	NT	1	0.500	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	9/1/2022	NT	1	0.500	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	3/24/2023	NT	1	0.500	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	9/7/2023	NT	1	0.500	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	3/18/2024	NT	1	0.500	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	9/25/2024	NT	1	0.500	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	3/10/2025	NT	1	0.500	1000	9/18/2014	NA	9/1/2016
MW-16	dichlorodifluoromethane	9/8/2025	NT	1	0.500	1000	9/18/2014	NA	9/1/2016

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-18	Arsenic	9/17/2014	22.00	5.6	---	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	4/28/2015	45.90	5.6	---	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	10/6/2015	39.20	5.6	---	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	4/23/2016	51.80	5.6	28.563	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	9/1/2016	81.40	5.6	38.459	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	3/21/2017	49.70	5.6	39.842	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	10/13/2017	50.10	5.6	44.861	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	3/9/2018	46.10	5.6	42.551	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	9/6/2018	74.40	5.6	43.809	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	3/7/2019	87.20	5.6	47.426	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	9/26/2019	99.20	5.6	56.988	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	4/2/2020	81.70	5.6	76.567	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	9/17/2020	34.80	5.6	51.264	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	3/25/2021	9.60	5.6	20.518	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	9/16/2021	36.00	5.6	14.520	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	3/16/2022	34.70	5.6	13.722	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	9/1/2022	24.10	5.6	11.722	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	3/24/2023	67.40	5.6	18.581	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	9/7/2023	26.90	5.6	14.834	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	3/18/2024	23.70	5.6	10.473	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	9/25/2024	43.60	5.6	16.871	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	3/10/2025	31.20	5.6	21.086	10	9/17/2014	NA	9/1/2016
MW-18	Arsenic	9/8/2025	40.30	5.6	24.096	10	9/17/2014	NA	9/1/2016

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MW-19	1,1-dichloroethane	9/17/2014	1.8	1	---	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	4/28/2015	<1	1	---	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	10/6/2015	1.3	1	---	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	4/23/2016	2.2	1	0.816	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	9/1/2016	1.6	1	0.788	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	3/21/2017	2.2	1	1.435	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	10/13/2017	1.0	1	1.253	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	3/9/2018	3.1	1	1.199	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	9/6/2018	3.0	1	1.484	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	3/7/2019	<1	1	0.736	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	9/26/2019	<1	1	0.500	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	4/2/2020	<1	1	0.042	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	9/17/2020	2.3	1	0.171	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	3/25/2021	2.6	1	0.494	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	9/16/2021	3.4	1	1.139	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	3/16/2022	4.9	1	1.932	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	9/1/2022	3.8	1	2.549	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	3/24/2023	3.1	1	2.874	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	9/7/2023	2.9	1	2.613	140	9/17/2014	NA	9/1/2016
MW-19	1,1-dichloroethane	3/18/2024	2.3	1	2.489	140	9/17/2014	NA	9/1/2016
MW-19R	1,1-dichloroethane	11/25/2024	3.0	1	---	140	9/17/2014	NA	9/1/2016
MW-19R	1,1-dichloroethane	3/10/2025	2.7	1	---	140	9/17/2014	NA	9/1/2016
MW-19R	1,1-dichloroethane	9/8/2025	2.7	1	---	140	9/17/2014	NA	9/1/2016

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MW-19	Benzene	9/17/2014	<1	1	---	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	4/28/2015	<1	1	---	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	10/6/2015	<1	1	---	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	4/23/2016	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	9/1/2016	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	3/21/2017	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	10/13/2017	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	3/9/2018	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	9/6/2018	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	3/7/2019	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	9/26/2019	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	4/2/2020	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	9/17/2020	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	3/25/2021	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	9/16/2021	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	3/16/2022	1.2	1	0.263	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	9/1/2022	1.0	1	0.381	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	3/24/2023	<1	1	0.381	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	9/7/2023	<1	1	0.381	5	3/16/2022	NA	9/1/2016
MW-19	Benzene	3/18/2024	<1	1	0.500	5	3/16/2022	NA	9/1/2016
MW-19R	Benzene	11/25/2024	<1	1	---	5	3/16/2022	NA	9/1/2016
MW-19R	Benzene	3/10/2025	<1	1	---	5	3/16/2022	NA	9/1/2016
MW-19R	Benzene	9/8/2025	<1	1	---	5	3/16/2022	NA	9/1/2016

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MW-19	Cloroethane	9/17/2014	<1	1	---	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	4/28/2015	<1	1	---	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	10/6/2015	<1	1	---	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	4/23/2016	<1	1	0.500	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	9/1/2016	<1	1	0.500	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	3/21/2017	<1	1	0.500	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	10/13/2017	<1	1	0.500	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	3/9/2018	<1	1	0.500	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	9/6/2018	<1	1	0.500	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	3/7/2019	<1	1	0.500	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	9/26/2019	<1	1	0.500	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	4/2/2020	<1	1	0.500	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	9/17/2020	<1	1	0.500	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	3/25/2021	<1	1	0.500	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	9/16/2021	<1	1	0.500	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	3/16/2022	1.4	1	0.196	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	9/1/2022	1.2	1	0.348	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	3/24/2023	<1	1	0.348	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	9/7/2023	<1	1	0.348	2800	3/16/2022	NA	9/1/2016
MW-19	Cloroethane	3/18/2024	<1	1	0.381	2800	3/16/2022	NA	9/1/2016
MW-19R	Cloroethane	11/25/2024	<1	1	---	2800	3/16/2022	NA	9/1/2016
MW-19R	Cloroethane	3/10/2025	<1	1	---	2800	3/16/2022	NA	9/1/2016
MW-19R	Cloroethane	9/8/2025	<1	1	---	2800	3/16/2022	NA	9/1/2016

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MW-19	cis-1,2-dichloroethylene	9/17/2014	<1	1	---	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	4/28/2015	<1	1	---	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	10/6/2015	<1	1	---	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	4/23/2016	1.3	1	0.354	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	9/1/2016	1.1	1	0.493	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	3/21/2017	1.5	1	0.726	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	10/13/2017	<1	1	0.726	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	3/9/2018	1.9	1	0.733	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	9/6/2018	2.6	1	0.865	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	3/7/2019	<1	1	0.466	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	9/26/2019	<1	1	0.466	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	4/2/2020	<1	1	0.116	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	9/17/2020	1.7	1	0.280	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	3/25/2021	2.1	1	0.486	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	9/16/2021	2.6	1	0.949	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	3/16/2022	4.7	1	1.205	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	9/1/2022	3.5	1	1.883	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	3/24/2023	2.2	1	1.945	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	9/7/2023	1.1	1	1.037	70	4/23/2016	NA	9/1/2016
MW-19	cis-1,2-dichloroethylene	3/18/2024	1.4	1	1.121	70	4/23/2016	NA	9/1/2016
MW-19R	cis-1,2-dichloroethylene	11/25/2024	2.4	1	---	70	4/23/2016	NA	9/1/2016
MW-19R	cis-1,2-dichloroethylene	3/10/2025	2.0	1	---	70	4/23/2016	NA	9/1/2016
MW-19R	cis-1,2-dichloroethylene	9/8/2025	2.4	1	---	70	4/23/2016	NA	9/1/2016

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MW-19/19R	Vinyl Chloride	9/17/2014	<1	1	---	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	4/28/2015	<1	1	---	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	10/6/2015	<1	1	---	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	4/23/2016	<1	1	0.500	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	9/1/2016	<1	1	0.500	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	3/21/2017	<1	1	0.500	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	10/13/2017	<1	1	0.500	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	3/9/2018	<1	1	0.500	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	9/6/2018	3.2	1	0.006	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	3/7/2019	<1	1	0.006	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	9/26/2019	<1	1	0.006	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	4/2/2020	<1	1	0.006	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	9/17/2020	1.4	1	0.335	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	3/25/2021	1.2	1	0.494	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	9/16/2021	1.9	1	0.788	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	3/16/2022	1.9	1	1.181	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	9/1/2022	2.1	1	1.311	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	3/24/2023	1.0	1	1.146	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	9/7/2023	1.2	1	0.924	2	9/6/2018	NA	9/1/2016
MW-19	Vinyl Chloride	3/18/2024	<1	1	0.621	2	9/6/2018	NA	9/1/2016
MW-19R	Vinyl Chloride	11/25/2024	<1	1	---	2	9/6/2018	NA	9/1/2016
MW-19R	Vinyl Chloride	3/10/2025	<1	1	---	2	9/6/2018	NA	9/1/2016
MW-19R	Vinyl Chloride	9/8/2025	<1	1	---	2	9/6/2018	NA	9/1/2016

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

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MW-20	Arsenic	9/18/2014	75.20	5.6	---	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	4/28/2015	45.50	5.6	---	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	10/6/2015	81.70	5.6	---	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	4/23/2016	81.50	5.6	56.037	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	9/1/2016	77.10	5.6	56.355	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	3/21/2017	79.10	5.6	77.961	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	10/13/2017	96.80	5.6	75.861	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	3/9/2018	83.40	5.6	76.422	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	9/6/2018	99.60	5.6	81.058	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	3/7/2019	78.40	5.6	80.666	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	9/26/2019	83.60	5.6	78.266	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	4/2/2020	65.20	5.6	69.380	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	9/17/2020	87.10	5.6	70.256	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	3/25/2021	106.00	5.6	70.997	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	9/16/2021	87.80	5.6	72.068	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	3/16/2022	127.00	5.6	79.816	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	9/1/2022	133.00	5.6	89.160	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	3/24/2023	94.60	5.6	83.892	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	9/7/2023	83.40	5.6	80.995	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	3/18/2024	112.00	5.6	80.290	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	9/25/2024	44.10	5.6	49.651	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	3/10/2025	31.20	5.6	37.725	10	9/18/2014	NA	9/1/2016
MW-20	Arsenic	9/8/2025	59.70	5.6	32.079	10	9/18/2014	NA	9/1/2016

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-20	Barium	9/18/2014	2370.0	744.8651	---	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	4/28/2015	2390.0	744.8651	---	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	10/6/2015	2490.0	744.8651	---	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	4/23/2016	2260.0	744.8651	2295.838	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	9/1/2016	2140.0	744.8651	2187.902	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	3/21/2017	2140.0	744.8651	2114.606	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	10/13/2017	2340.0	744.8651	2135.147	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	3/9/2018	2010.0	744.8651	2039.522	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	9/6/2018	2360.0	744.8651	2067.349	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	3/7/2019	2100.0	744.8651	2051.441	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	9/26/2019	2350.0	744.8651	2051.621	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	4/2/2020	2300.0	744.8651	2172.530	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	9/17/2020	1970.0	744.8651	2026.866	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	3/25/2021	1970.0	744.8651	1969.122	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	9/16/2021	2160.0	744.8651	1960.896	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	3/16/2022	1890.0	744.8651	1862.568	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	9/1/2022	2020.0	744.8651	1876.572	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	3/24/2023	2000.0	762.2866	1887.087	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	9/7/2023	1810.0	754.8120	1814.348	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	3/18/2024	2110.0	776.0663	1836.676	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	9/25/2024	1950.0	769.2044	1821.093	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	3/10/2025	1640.0	748.3411	1641.973	2000	9/18/2014	NA	9/1/2016
MW-20	Barium	9/8/2025	1860.0	735.5741	1659.295	2000	9/18/2014	NA	9/1/2016

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MW-20	acetone	9/18/2014	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	4/28/2015	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	10/6/2015	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	4/23/2016	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	9/1/2016	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	3/21/2017	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	10/13/2017	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	3/9/2018	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	9/6/2018	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	3/7/2019	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	9/26/2019	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	4/2/2020	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	9/17/2020	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	3/25/2021	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	9/16/2021	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	3/16/2022	57.2	10	0.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	9/1/2022	<10	10	0.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	3/24/2023	<10	10	0.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	9/7/2023	<10	10	0.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	3/18/2024	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	9/25/2024	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	3/10/2025	<10	10	5.000	6300	9/18/2014	NA	9/1/2016
MW-20	acetone	9/8/2025	<10	10	5.000	6300	9/18/2014	NA	9/1/2016

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MW-20	benzene	9/18/2014	1.9	1	---	5	9/18/2014	NA	9/1/2016
MW-20	benzene	4/28/2015	1.9	1	---	5	9/18/2014	NA	9/1/2016
MW-20	benzene	10/6/2015	2.0	1	---	5	9/18/2014	NA	9/1/2016
MW-20	benzene	4/23/2016	1.5	1	1.633	5	9/18/2014	NA	9/1/2016
MW-20	benzene	9/1/2016	1.9	1	1.633	5	9/18/2014	NA	9/1/2016
MW-20	benzene	3/21/2017	2.6	1	1.606	5	9/18/2014	NA	9/1/2016
MW-20	benzene	10/13/2017	2.0	1	1.606	5	9/18/2014	NA	9/1/2016
MW-20	benzene	3/9/2018	2.9	1	1.935	5	9/18/2014	NA	9/1/2016
MW-20	benzene	9/6/2018	3.6	1	2.199	5	9/18/2014	NA	9/1/2016
MW-20	benzene	3/7/2019	2.5	1	2.165	5	9/18/2014	NA	9/1/2016
MW-20	benzene	9/26/2019	3.1	1	2.629	5	9/18/2014	NA	9/1/2016
MW-20	benzene	4/2/2020	2.8	1	2.594	5	9/18/2014	NA	9/1/2016
MW-20	benzene	9/17/2020	<1	1	1.207	5	9/18/2014	NA	9/1/2016
MW-20	benzene	3/25/2021	3.3	1	1.299	5	9/18/2014	NA	9/1/2016
MW-20	benzene	9/16/2021	3.0	1	1.289	5	9/18/2014	NA	9/1/2016
MW-20	benzene	3/16/2022	3.8	1	0.920	5	9/18/2014	NA	9/1/2016
MW-20	benzene	9/1/2022	2.6	1	2.580	5	9/18/2014	NA	9/1/2016
MW-20	benzene	3/24/2023	2.6	1	2.335	5	9/18/2014	NA	9/1/2016
MW-20	benzene	9/7/2023	2.0	1	1.682	5	9/18/2014	NA	9/1/2016
MW-20	benzene	3/18/2024	2.2	1	1.997	5	9/18/2014	NA	9/1/2016
MW-20	benzene	9/25/2024	2.1	1	1.916	5	9/18/2014	NA	9/1/2016
MW-20	benzene	3/10/2025	1.1	1	1.254	5	9/18/2014	NA	9/1/2016
MW-20	benzene	9/8/2025	1.2	1	0.967	5	9/18/2014	NA	9/1/2016

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MW-20	bis(2-ethylhexyl)phthalate	9/18/2014	NT	6	---	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	4/28/2015	NT	6	---	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	10/6/2015	NT	6	---	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	4/23/2016	NT	6	---	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	9/1/2016	<6	6	---	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	3/21/2017	NT	6	---	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	10/13/2017	NT	6	---	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	3/9/2018	NT	6	---	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	9/6/2018	NT	6	---	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	3/7/2019	NT	6	---	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	9/26/2019	NT	6	---	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	4/2/2020	NT	6	---	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	9/17/2020	NT	6	---	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	3/25/2021	NT	6	---	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	9/16/2021	8.0	6	2.647	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	3/16/2022	7.0	6	3.325	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	9/1/2022	<6	6	3.325	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	3/24/2023	NT	6	3.325	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	9/7/2023	NT	6	3.325	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	3/18/2024	NT	6	3.325	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	9/25/2024	NT	6	3.325	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	3/10/2025	NT	6	3.325	6	9/16/2021	NA	9/1/2016
MW-20	bis(2-ethylhexyl)phthalate	9/8/2025	NT	6	3.325	6	9/16/2021	NA	9/1/2016

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

KEY:	SSI	SSL LCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-20	chlorobenzene	9/18/2014	<1	1	---	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	4/28/2015	<1	1	---	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	10/6/2015	<1	1	---	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	4/23/2016	<1	1	0.500	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	9/1/2016	<1	1	0.500	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	3/21/2017	<1	1	0.500	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	10/13/2017	<1	1	0.500	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	3/9/2018	<1	1	0.500	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	9/6/2018	1.2	1	0.372	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	3/7/2019	<1	1	0.372	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	9/26/2019	<1	1	0.372	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	4/2/2020	1.0	1	0.492	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	9/17/2020	1.2	1	0.492	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	3/25/2021	1.1	1	0.681	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	9/16/2021	1.1	1	1.029	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	3/16/2022	1.1	1	1.066	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	9/1/2022	1.1	1	1.100	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	3/24/2023	<1	1	0.597	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	9/7/2023	1.0	1	0.587	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	3/18/2024	1.2	1	0.584	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	9/25/2024	1.9	1	0.467	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	3/10/2025	<1	1	0.467	100	9/6/2018	NA	9/1/2016
MW-20	chlorobenzene	9/8/2025	1.0	1	0.467	100	9/6/2018	NA	9/1/2016

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Annual Water Quality Report
Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

KEY:	SSI	SSL LCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-20	chloroethane	9/18/2014	2.1	1	---	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	4/28/2015	2.9	1	---	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	10/6/2015	2.3	1	---	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	4/23/2016	1.6	1	1.759	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	9/1/2016	<1	1	0.932	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	3/21/2017	2.4	1	0.942	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	10/13/2017	2.3	1	0.942	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	3/9/2018	2.0	1	1.035	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	9/6/2018	2.8	1	2.089	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	3/7/2019	1.6	1	1.737	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	9/26/2019	2.0	1	1.664	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	4/2/2020	1.6	1	1.510	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	9/17/2020	1.6	1	1.527	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	3/25/2021	1.6	1	1.527	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	9/16/2021	1.8	1	1.563	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	3/16/2022	1.6	1	1.532	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	9/1/2022	1.7	1	1.562	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	3/24/2023	<1	1	0.688	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	9/7/2023	1.5	1	0.671	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	3/18/2024	1.2	1	0.607	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	9/25/2024	<1	1	0.330	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	9/25/2024	<1	1	0.330	2800	9/18/2014	NA	9/1/2016
MW-20	chloroethane	9/25/2024	<1	1	0.263	2800	9/18/2014	NA	9/1/2016

Table 8 - Summary of Ongoing and Newly Identified SSL

Table 8
Summary of Ongoing & Newly Identified SSL
Annual Water Quality Report
Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

KEY:

SSI

SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSL Initial Exceedance	Compliance Date 1st Occurrence	Compliance Date Most Recent	Compliance Date Duration (years)
MW-16	Arsenic	9/18/2014	34.30	---	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	4/28/2015	38.50	---	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	10/6/2015	<4.0	---	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	4/23/2016	<4.0	36.464	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	9/1/2016	<4.0	26.930	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	3/21/2017	9.30	6.986	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	10/13/2017	19.00	15.051	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	3/9/2018	<4.0	15.051	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	9/6/2018	<4.0	15.051	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	9/26/2019	6.30	14.290	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	4/2/2020	9.30	7.988	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	9/17/2020	6.50	8.634	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	3/25/2021	21.20	16.931	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	9/16/2021	10.40	17.432	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	3/16/2022	26.50	27.076	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	9/1/2022	4.70	27.384	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	3/24/2023	4.30	23.705	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	9/7/2023	<4.0	22.877	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	3/18/2024	20.40	17.791	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	9/25/2024	26.20	27.234	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	3/10/2025	24.00	31.123	10	9/8/2025	NA	NA	NA
MW-16	Arsenic	9/8/2025	45.80	42.495	10	9/8/2025	NA	NA	NA

Table 8

Summary of Ongoing & Newly Identified SSL

Annual Water Quality Report

Page County Sanitary Landfill

Permit No. 73-SDP-01-75P

KEY:

SSI

SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSL Initial Exceedance	Compliance Date 1st Occurrence	Compliance Date Most Recent	Compliance Date Duration (years)
MW-18	Arsenic	9/17/2014	22.00	---	10	NA	NA	NA	NA
MW-18	Arsenic	4/28/2015	45.90	---	10	NA	NA	NA	NA
MW-18	Arsenic	10/6/2015	39.20	---	10	NA	NA	NA	NA
MW-18	Arsenic	4/23/2016	51.80	50.887	10	NA	NA	NA	NA
MW-18	Arsenic	9/1/2016	81.40	70.691	10	NA	NA	NA	NA
MW-18	Arsenic	3/21/2017	49.70	71.208	10	NA	NA	NA	NA
MW-18	Arsenic	10/13/2017	50.10	71.639	10	NA	NA	NA	NA
MW-18	Arsenic	3/9/2018	46.10	71.099	10	NA	NA	NA	NA
MW-18	Arsenic	9/6/2018	74.40	66.341	10	NA	NA	NA	NA
MW-18	Arsenic	3/7/2019	87.20	81.474	10	NA	NA	NA	NA
MW-18	Arsenic	9/26/2019	99.20	96.462	10	NA	NA	NA	NA
MW-18	Arsenic	4/2/2020	81.70	94.683	10	NA	NA	NA	NA
MW-18	Arsenic	9/17/2020	34.80	100.186	10	NA	NA	NA	NA
MW-18	Arsenic	3/25/2021	9.60	92.132	10	NA	NA	NA	NA
MW-18	Arsenic	9/16/2021	36.00	66.530	10	NA	NA	NA	NA
MW-18	Arsenic	3/16/2022	34.70	43.828	10	NA	NA	NA	NA
MW-18	Arsenic	9/1/2022	24.10	40.478	10	NA	NA	NA	NA
MW-18	Arsenic	3/24/2023	67.40	62.519	10	NA	NA	NA	NA
MW-18	Arsenic	9/7/2023	26.90	61.716	10	NA	NA	NA	NA
MW-18	Arsenic	3/18/2024	23.70	60.577	10	NA	NA	NA	NA
MW-18	Arsenic	9/25/2024	43.60	63.929	10	NA	NA	NA	NA
MW-18	Arsenic	3/10/2025	31.20	41.614	10	NA	NA	NA	NA
MW-18	Arsenic	9/8/2025	40.30	45.304	10	NA	NA	NA	NA

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 8
Summary of Ongoing & Newly Identified SSL
Annual Water Quality Report
Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

KEY:	SSI	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSL Initial Exceedance	Compliance Date 1st Occurrence	Compliance Date Most Recent	Compliance Date Duration (years)
MW-20	Arsenic	9/18/2014	75.20	---	10	NA	NA	NA	NA
MW-20	Arsenic	4/28/2015	45.50	---	10	NA	NA	NA	NA
MW-20	Arsenic	10/6/2015	81.70	---	10	NA	NA	NA	NA
MW-20	Arsenic	4/23/2016	81.50	85.913	10	NA	NA	NA	NA
MW-20	Arsenic	9/1/2016	77.10	86.545	10	NA	NA	NA	NA
MW-20	Arsenic	3/21/2017	79.10	81.739	10	NA	NA	NA	NA
MW-20	Arsenic	10/13/2017	96.80	91.389	10	NA	NA	NA	NA
MW-20	Arsenic	3/9/2018	83.40	91.788	10	NA	NA	NA	NA
MW-20	Arsenic	9/6/2018	99.60	98.392	10	NA	NA	NA	NA
MW-20	Arsenic	3/7/2019	78.40	98.434	10	NA	NA	NA	NA
MW-20	Arsenic	9/26/2019	83.60	94.234	10	NA	NA	NA	NA
MW-20	Arsenic	4/2/2020	65.20	94.020	10	NA	NA	NA	NA
MW-20	Arsenic	9/17/2020	87.10	86.894	10	NA	NA	NA	NA
MW-20	Arsenic	3/25/2021	106.00	99.953	10	NA	NA	NA	NA
MW-20	Arsenic	9/16/2021	87.80	100.982	10	NA	NA	NA	NA
MW-20	Arsenic	3/16/2022	127.00	124.134	10	NA	NA	NA	NA
MW-20	Arsenic	9/1/2022	133.00	137.740	10	NA	NA	NA	NA
MW-20	Arsenic	3/24/2023	94.60	137.308	10	NA	NA	NA	NA
MW-20	Arsenic	9/7/2023	83.40	138.005	10	NA	NA	NA	NA
MW-20	Arsenic	3/18/2024	112.00	131.210	10	NA	NA	NA	NA
MW-20	Arsenic	9/25/2024	44.10	117.399	10	NA	NA	NA	NA
MW-20	Arsenic	3/10/2025	31.20	109.475	10	NA	NA	NA	NA
MW-20	Arsenic	9/8/2025	59.70	103.271	10	NA	NA	NA	NA

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Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

KEY:	SSI	SSL UCL>GWPS

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSL Initial Exceedance	Compliance Date 1st Occurrence	Compliance Date Most Recent	Compliance Date Duration (years)
MW-20	Barium	9/18/2014	2370.0	---	2000	NA	NA	NA	NA
MW-20	Barium	4/28/2015	2390.0	---	2000	NA	NA	NA	NA
MW-20	Barium	10/6/2015	2490.0	---	2000	NA	NA	NA	NA
MW-20	Barium	4/23/2016	2260.0	2459.162	2000	NA	NA	NA	NA
MW-20	Barium	9/1/2016	2140.0	2452.098	2000	NA	NA	NA	NA
MW-20	Barium	3/21/2017	2140.0	2400.394	2000	NA	NA	NA	NA
MW-20	Barium	10/13/2017	2340.0	2304.853	2000	NA	NA	NA	NA
MW-20	Barium	3/9/2018	2010.0	2275.478	2000	NA	NA	NA	NA
MW-20	Barium	9/6/2018	2360.0	2357.651	2000	NA	NA	NA	NA
MW-20	Barium	3/7/2019	2100.0	2353.559	2000	NA	NA	NA	NA
MW-20	Barium	9/26/2019	2350.0	2358.379	2000	NA	NA	NA	NA
MW-20	Barium	4/2/2020	2300.0	2382.470	2000	NA	NA	NA	NA
MW-20	Barium	9/17/2020	1970.0	2333.134	2000	NA	NA	NA	NA
MW-20	Barium	3/25/2021	1970.0	2325.878	2000	NA	NA	NA	NA
MW-20	Barium	9/16/2021	2160.0	2239.104	2000	NA	NA	NA	NA
MW-20	Barium	3/16/2022	1890.0	2132.432	2000	NA	NA	NA	NA
MW-20	Barium	9/1/2022	2020.0	2143.428	2000	NA	NA	NA	NA
MW-20	Barium	3/24/2023	2000.0	2147.913	2000	NA	NA	NA	NA
MW-20	Barium	9/7/2023	1810.0	2045.652	2000	NA	NA	NA	NA
MW-20	Barium	3/18/2024	2110.0	2133.324	2000	NA	NA	NA	NA
MW-20	Barium	9/25/2024	1950.0	2113.907	2000	NA	NA	NA	NA
MW-20	Barium	3/10/2025	1640.0	2113.027	2000	NA	NA	NA	NA
MW-20	Barium	9/8/2025	1860.0	2120.705	2000	NA	NA	NA	NA

Table 9 – Analytical Data Summary

Table 9

Analytical Data Summary for GU-1

Constituents	Units	9/18/2014	4/29/2015	10/6/2015	12/17/2015	4/23/2016	9/1/2016	3/22/2017	10/13/2017	3/9/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5		<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5		<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5		<5	<5	<5	<5	<5
Acetone	ug/L	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0	20.2	<10.0
Acrylonitrile	ug/L	<5	<5	<5		<5	<5	<5	<5	<5
Aluminum, total	mg/L									
Antimony, total	ug/L	<2	<2	<2		<2	<2	<2	<2	<2
Arsenic, total	ug/L	4.1	4.3	528.0	10.1	4.1	5.3	<4.0	<4.0	<4.0
Barium, total	ug/L	422	485	6250	522	335	299	422	264	246
Benzene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0
Bod (5 day)	mg/L									
Boron, total	mg/L									
Bromochloromethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	<8	<8		<8	<8	<8	<8	<8
Carbon disulfide	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Chloride	mg/L									
Chlorobenzene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8		<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Cobalt, total	ug/L	7.9	11.2	72.0	15.9	5.4	5.0	4.0	<8	<8
Copper, total	ug/L	<4.0	<4.0	6.7		<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Fluoride	mg/L									
Iron, total	ug/L									
Lead, total	ug/L	<4	<4	<4		<4	<4	<4	<4	<4
Lithium, total	mg/L									
Manganese, total	mg/L									
Methyl iodide	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5		<5	<5	<5	<5	<5
Molybdenum, total	mg/L									
Nickel, total	ug/L	10.6	12.8	61.7		8.6	8.0	6.6	<4.0	<4.0
Nitrogen, ammonia	mg/L									
Nitrogen, kjeldahl, total	mg/L									
Nitrogen, Nitrate+Nitrite	mg/L									
Selenium, total	ug/L	<4	<4	<4		<4	<4	<4	<4	<4
Silica, dissolved	mg/L									
Silver, total	ug/L	<4	<4	<4		<4	<4	<4	<4	<4
Solids, total suspended	mg/L	6	10	427		2	4	<2	6	
Styrene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Sulfate	mg/L									
Tetrachloroethylene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5		<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20		<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5		<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1		<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2		<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0	<20.0	25.7		<20.0	<8.0	<8.0	<8.0	<8.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for GU-1

Constituents	9/6/2018	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	3/16/2022	9/1/2022	3/24/2023	9/7/2023
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aluminum, total						.251				
Antimony, total	<2	<2	<2	<2	<2		<2	<2	<2	<2
Arsenic, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	6.8
Barium, total	202	266	271	268	270	277	355	222	504	
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bod (5 day)						<5				
Boron, total						<1				
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride						11.6				
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	<.4	<.4	<.4	.6	<.4	2.8
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluoride						.5				
Iron, total						196				
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Lithium, total						<.05				
Manganese, total						.0203				
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Molybdenum, total						<.004				
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	7.0
Nitrogen, ammonia						<.1				
Nitrogen, kjeldahl, total						.56				
Nitrogen, Nitrate+Nitrite						6.33				
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silica, dissolved						12.1				
Silver, total	<8	<4	<4	<4	<4		<4	<4	<4	<4
Solids, total suspended						8				
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfate						10.8				
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	10.7	<8.0	<8.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for GU-1

Constituents	3/18/2024	11/25/2024	3/10/2025	9/8/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1
2-butanone (mek)	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5
Acetone	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<5	<5	<5	<5
Aluminum, total				
Antimony, total	<2	<2	<2	<1
Arsenic, total	<4.0	4.0	<4.0	<2.0
Barium, total	262	210	219	253
Benzene	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<.5
Bod (5 day)				
Boron, total				
Bromochloromethane	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.2
Carbon disulfide	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1
Chloride				
Chlorobenzene	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<1
Cis-1,2-dichloroethylene	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1
Cobalt, total	<.4	<.4	.9	<.5
Copper, total	<4.0	<4.0	<4.0	<5.0
Dibromochloromethane	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1
Fluoride				
Iron, total				
Lead, total	<4	<4	<4	<1
Lithium, total				
Manganese, total				
Methyl iodide	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5
Molybdenum, total				
Nickel, total	<4.0	<4.0	<4.0	<5.0
Nitrogen, ammonia				
Nitrogen, kjeldahl, total				
Nitrogen, Nitrate+Nitrite				
Selenium, total	<4	<4	<4	<2
Silica, dissolved				
Silver, total	<4	<4	<4	<5
Solids, total suspended				
Styrene	<1	<1	<1	<1
Sulfate				
Tetrachloroethylene	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<.5
Toluene	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<5.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for GU-3

Constituents	Units	8/1/2024	9/25/2024	3/10/2025	9/8/2025
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<5	<5	<5	<5
1,2-dibromoethane	ug/L	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1
2-butanone (mek)	ug/L	<10	<10	<10	<10
2-hexanone (mbk)	ug/L	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<1
Arsenic, total	ug/L	<4	<4	<4	<2
Barium, total	ug/L	287	242	258	306
Benzene	ug/L	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<5
Bromochloromethane	ug/L	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	<.2
Carbon disulfide	ug/L	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<1
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1
Cobalt, total	ug/L	.4	<.4	<.4	<.5
Copper, total	ug/L	<4	<4	<4	<5
Dibromochloromethane	ug/L	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<1
Methyl iodide	ug/L	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5
Nickel, total	ug/L	6.1	<4.0	<4.0	<5.0
Selenium, total	ug/L	<4	4	<4	<2
Silver, total	ug/L	<4	<4	<4	<5
Styrene	ug/L	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1
Thallium, total	ug/L	<2.0	<2.0	<2.0	<.5
Toluene	ug/L	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<2
Vinyl acetate	ug/L	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2
Zinc, total	ug/L	173	<20	120	370

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for GU-4

Constituents	Units	8/1/2024	9/25/2024	11/25/2024	3/10/2025	9/8/2025
1,1,1,2-tetrachloroethane	ug/L	<1	<1		<1	<1
1,1,1-trichloroethane	ug/L	<1	<1		<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1		<1	<1
1,1,2-trichloroethane	ug/L	<1	<1		<1	<1
1,1-dichloroethane	ug/L	<1	<1		<1	<1
1,1-dichloroethylene	ug/L	<1	<1		<1	<1
1,2,3-trichloropropane	ug/L	<1	<1		<1	<1
1,2-dibromo-3-chloropropane	ug/L	<5	<5		<5	<5
1,2-dibromoethane	ug/L	<1	<1		<1	<1
1,2-dichlorobenzene	ug/L	<1	<1		<1	<1
1,2-dichloroethane	ug/L	<1	<1		<1	<1
1,2-dichloropropane	ug/L	<1	<1		<1	<1
1,4-dichlorobenzene	ug/L	<1	<1		<1	<1
2-butanone (mek)	ug/L	<10	<10		<10	<10
2-hexanone (mbk)	ug/L	<5	<5		<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5		<5	<5
Acetone	ug/L	<10	<10		<10	<10
Acrylonitrile	ug/L	<5	<5		<5	<5
Antimony, total	ug/L	<2	<2		<2	<1
Arsenic, total	ug/L	<4	<4		<4	<2
Barium, total	ug/L	272	289		229	353
Benzene	ug/L	<1	<1		<1	<1
Beryllium, total	ug/L	<4.0	<4.0		<4.0	<5
Bromochloromethane	ug/L	<1	<1		<1	<1
Bromodichloromethane	ug/L	<1	<1		<1	<1
Bromoform	ug/L	<1	<1		<1	<1
Bromomethane	ug/L	<1	<1		<1	<1
Cadmium, total	ug/L	<.8	<.8		<.8	<.2
Carbon disulfide	ug/L	<1	<1		<1	<1
Carbon tetrachloride	ug/L	<1	<1		<1	<1
Chlorobenzene	ug/L	<1	<1		<1	<1
Chloroethane	ug/L	<1	<1		<1	<1
Chloroform	ug/L	<1	<1		<1	<1
Chloromethane	ug/L	<1	<1		<1	<1
Chromium, total	ug/L	<8.0	<8.0		<8.0	2.5
Cis-1,2-dichloroethylene	ug/L	<1	<1		<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1		<1	<1
Cobalt, total	ug/L	<.4	<.4		<.4	.7
Copper, total	ug/L	<4	<4		<4	<5
Dibromochloromethane	ug/L	<1	<1		<1	<1
Dibromomethane	ug/L	<1	<1		<1	<1
Ethylbenzene	ug/L	<1	<1		<1	<1
Lead, total	ug/L	<4	<4		<4	1
Methyl iodide	ug/L	<1	<1		<1	<1
Methylene chloride	ug/L	<5	<5		<5	<5
Nickel, total	ug/L	6.8	<4.0		<4.0	7.7
Selenium, total	ug/L	<4	<4		<4	<2
Silver, total	ug/L	<4	<4		<4	<5
Styrene	ug/L	<1	<1		<1	<1
Tetrachloroethylene	ug/L	<1	<1		<1	<1
Thallium, total	ug/L	<2.0	<2.0		<2.0	<.5
Toluene	ug/L	<1	<1		<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1		<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5		<5	<5
Trichloroethylene	ug/L	<1	<1		<1	<1
Trichlorofluoromethane	ug/L	<1	<1		<1	<1
Vanadium, total	ug/L	<20	<20		<20	3
Vinyl acetate	ug/L	<5	<5		<5	<5
Vinyl chloride	ug/L	<1	<1		<1	<1
Xylenes, total	ug/L	<2	<2		<2	<2
Zinc, total	ug/L	67.2	106.0	127.0	58.9	128.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-1

Constituents	Units	9/17/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/21/2017	10/13/2017	3/9/2018	9/6/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	11.2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	5.6	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Barium, total	ug/L	684	456	279	306	283	310	455	484	361
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	<8	.8	<8	<8	<8	<8	<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	8.9	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	30.6	6.0	<8	<8	<8	<8	<8	2.5	<8
Copper, total	ug/L	11.6	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	6.9	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	7.4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	60.4	20.6	10.6	<4.0	<4.0	<4.0	13.3	20.1	<4.0
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<8
Solids, total suspended	mg/L	226	142	27	11	9	350	187		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	32.0	12.3	8.8	<20.0	<8.0	<8.0	<8.0	11.5	15.6

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-1

Constituents	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	6/3/2021	9/16/2021	12/8/2021	3/16/2022
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1		<1		<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1		<1		<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1		<1		<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1		<1		<1
1,1-dichloroethane	<1	<1	<1	<1	<1		<1		<1
1,1-dichloroethylene	<1	<1	<1	<1	<1		<1		<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1		<1		<1
1,2-dibromo-3-chloropropane	<1	<1	<5	<5	<5		<5		<5
1,2-dibromoethane	<1	<1	<1	<1	<1		<1		<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1		<1		<1
1,2-dichloroethane	<1	<1	<1	<1	<1		<1		<1
1,2-dichloropropane	<1	<1	<1	<1	<1		<1		<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1		<1		<1
2-butanone (mek)	<5	<5	<5	<5	<5		<5		<10
2-hexanone (mbk)	<5	<5	<5	<5	<5		<5		<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5		<5		<5
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0		<10.0		<10.0
Acrylonitrile	<5	<5	<5	<5	<5		<5		<5
Antimony, total	<2	<2	<2	<2	<2		<2		<2
Arsenic, total	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0		<4.0
Barium, total	493	405	452	492	715		467		642
Benzene	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0		1.0
Beryllium, total	<4	<4	<4	<4	<4		<4		<4
Bromochloromethane	<1	<1	<1	<1	<1		<1		<1
Bromodichloromethane	<1	<1	<1	<1	<1		<1		<1
Bromoform	<1	<1	<1	<1	<1		<1		<1
Bromomethane	<1	<1	<1	<1	<1		<1		<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8		<.8		<.8
Carbon disulfide	<1	<1	<1	<1	<1		<1		<1
Carbon tetrachloride	<1	<1	<1	<1	<1		<1		<1
Chlorobenzene	<1	<1	<1	<1	<1		<1		<1
Chloroethane	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0		<1.0
Chloroform	<1	<1	<1	<1	<1		<1		<1
Chloromethane	<1	<1	<1	<1	<1		<1		<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0		<8.0		<8.0
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1		<1		<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1		<1		<1
Cobalt, total	4.7	11.2	2.7	<.4	11.8		.4		2.1
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0		<4.0
Dibromochloromethane	<1	<1	<1	<1	<1		<1		<1
Dibromomethane	<1	<1	<1	<1	<1		<1		<1
Ethylbenzene	<1	<1	<1	<1	<1		<1		<1
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0		<4.0
Methyl iodide	<1	<1	<1	<1	<1		<1		<1
Methylene chloride	<5	<5	<5	<5	<5		<5		<5
Nickel, total	16.7	9.1	5.1	<4.0	28.1		<4.0		15.5
Selenium, total	<4	<4	<4	<4	<4		<4		<4
Silver, total	<4	<4	<4	<4	<4		<4		<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1		<1		<1
Tetrachloroethylene	<1	<1	<1	<1	<1		<1		<1
Thallium, total	<2	<2	<2	<2	<2		<2		<2
Toluene	<1	<1	<1	<1	<1		<1		<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1		<1		<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1		<1		<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5		<5		<5
Trichloroethylene	<1	<1	<1	<1	<1		3	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1		<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20		<20		<20
Vinyl acetate	<5	<5	<5	<5	<5		<5		<5
Vinyl chloride	<1	<1	<1	<1	<1		<1		<1
Xylenes, total	<2	<2	<2	<2	<2		<2		<2
Zinc, total	<8.0	27.7	<20.0	<20.0	<20.0		<20.0		<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-1

Constituents	6/14/2022	9/1/2022	3/24/2023	5/9/2023
1,1,1,2-tetrachloroethane		<1	<1	
1,1,1-trichloroethane		<1	<1	
1,1,2,2-tetrachloroethane		<1	<1	
1,1,2-trichloroethane		<1	<1	
1,1-dichloroethane		<1	<1	
1,1-dichloroethylene		<1	<1	
1,2,3-trichloropropane		<1	<1	
1,2-dibromo-3-chloropropane		<5	<5	
1,2-dibromoethane		<1	<1	
1,2-dichlorobenzene		<1	<1	
1,2-dichloroethane		<1	<1	
1,2-dichloropropane		<1	<1	
1,4-dichlorobenzene		<1	<1	
2-butanone (mek)		<10	<10	
2-hexanone (mbk)		<5	<5	
4-methyl-2-pentanone (mibk)		<5	<5	
Acetone		<10.0	<10.0	
Acrylonitrile		<5	<5	
Antimony, total		<2	<2	
Arsenic, total		<4.0	<4.0	
Barium, total		580	657	
Benzene	<1.0	<1.0	1.7	1.6
Beryllium, total		<4	<4	
Bromochloromethane		<1	<1	
Bromodichloromethane		<1	<1	
Bromoform		<1	<1	
Bromomethane		<1	<1	
Cadmium, total		<8	<8	
Carbon disulfide		<1	<1	
Carbon tetrachloride		<1	<1	
Chlorobenzene		<1	<1	
Chloroethane		<1.0	1.3	1.3
Chloroform		<1	<1	
Chloromethane		<1	<1	
Chromium, total		<8.0	<8.0	
Cis-1,2-dichloroethylene		<1	<1	
Cis-1,3-dichloropropene		<1	<1	
Cobalt, total		9.4	14.1	
Copper, total		<4.0	<4.0	
Dibromochloromethane		<1	<1	
Dibromomethane		<1	<1	
Ethylbenzene		<1	<1	
Lead, total		<4.0	<4.0	
Methyl iodide		<1	<1	
Methylene chloride		<5	<5	
Nickel, total		12.6	21.5	
Selenium, total		<4	<4	
Silver, total		<4	<4	
Solids, total suspended				
Styrene		<1	<1	
Tetrachloroethylene		<1	<1	
Thallium, total		<2	<2	
Toluene		<1	<1	
Trans-1,2-dichloroethylene		<1	<1	
Trans-1,3-dichloropropene		<1	<1	
Trans-1,4-dichloro-2-butene		<5	<5	
Trichloroethylene		<1	<1	
Trichlorofluoromethane		<1	<1	
Vanadium, total		<20	<20	
Vinyl acetate		<5	<5	
Vinyl chloride		<1	<1	
Xylenes, total		<2	<2	
Zinc, total		<20.0	<20.0	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-10

Constituents	Units	9/17/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/21/2017	10/13/2017	3/9/2018	9/6/2018
(3+4)-methylphenol	ug/L									<8
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L									<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L									<8
1,2,4-trichlorobenzene	ug/L									<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene	ug/L									<8
1,3,5-trinitrobenzene	ug/L									<8
1,3-dichlorobenzene	ug/L									<1
1,3-dichloropropane	ug/L									<1
1,3-dinitrobenzene	ug/L									<8
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L									<8
1,4-phenylenediamine	ug/L									<8
1-naphthylamine	ug/L									<8
2,2-dichloropropane	ug/L									<1
2,3,4,6-tetrachlorophenol	ug/L									<8
2,4,5-t	ug/L									<5
2,4,5-tp (silvex)	ug/L									<5
2,4,5-trichlorophenol	ug/L									<8
2,4,6-trichlorophenol	ug/L									<8
2,4-d	ug/L									<2
2,4-dichlorophenol	ug/L									<8
2,4-dimethylphenol	ug/L									<8
2,4-dinitrophenol	ug/L									<8
2,4-dinitrotoluene	ug/L									<8
2,6-dichlorophenol	ug/L									<8
2,6-dinitrotoluene	ug/L									<8
2-acetylaminofluorene	ug/L									<8
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene	ug/L									<8
2-chlorophenol	ug/L									<8
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L									<8
2-methylphenol	ug/L									<8
2-naphthylamine	ug/L									<8
2-nitroaniline	ug/L									<8
2-nitrophenol	ug/L									<8
3,3'-dichlorobenzidine	ug/L									<8
3,3'-dimethylbenzidine	ug/L									<8
3-methylcholanthrene	ug/L									<8
3-nitroaniline	ug/L									<8
4,4'-ddd	ug/L									<.05
4,4'-dde	ug/L									<.05
4,4'-ddt	ug/L									<.05
4,6-dinitro-2-methylphenol	ug/L									<8
4-aminobiphenyl	ug/L									<8
4-bromophenyl phenyl ether	ug/L									<8
4-chloro-3-methylphenol	ug/L									<8
4-chloroaniline	ug/L									<8
4-chlorophenyl phenyl ether	ug/L									<8
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	ug/L									<8
4-nitrophenol	ug/L									<8
5-nitro-o-toluidine	ug/L									<8
7,12-dimethylbenz(a)anthracene	ug/L									<8
Acenaphthene	ug/L									<8
Acenaphthylene	ug/L									<8
Acetone	ug/L	18.8	<10.0	<10.0	<10.0	<10.0	<10.0	18.7	<10.0	11.3
Acetonitrile	ug/L									<10
Acetophenone	ug/L									<8
Acrolein	ug/L									<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin	ug/L									<.05
Allyl chloride	ug/L									<1
Alpha-bhc	ug/L									<.05
Anthracene	ug/L									<8

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-10

Constituents	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022	3/24/2023
(3+4)-methylphenol		<8							
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene		<1							
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene		<8							
1,2,4-trichlorobenzene		<1							
1,2-dibromo-3-chloropropane	<1	<1	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene		<8							
1,3,5-trinitrobenzene		<8							
1,3-dichlorobenzene		<1							
1,3-dichloropropane		<1							
1,3-dinitrobenzene		<8							
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone		<8							
1,4-phenylenediamine		<8							
1-naphthylamine		<8							
2,2-dichloropropane		<1							
2,3,4,6-tetrachlorophenol		<8							
2,4,5-t		<5							
2,4,5-tp (silvex)		<5							
2,4,5-trichlorophenol		<8							
2,4,6-trichlorophenol		<8							
2,4-d		<2							
2,4-dichlorophenol		<8							
2,4-dimethylphenol		<8							
2,4-dinitrophenol		<8							
2,4-dinitrotoluene		<8							
2,6-dichlorophenol		<8							
2,6-dinitrotoluene		<8							
2-acetylaminofluorene		<8							
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<10	<10	<10
2-chloronaphthalene		<8							
2-chlorophenol		<8							
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene		<8							
2-methylphenol		<8							
2-naphthylamine		<8							
2-nitroaniline		<8							
2-nitrophenol		<8							
3,3'-dichlorobenzidine		<8							
3,3'-dimethylbenzidine		<8							
3-methylcholanthrene		<8							
3-nitroaniline		<8							
4,4'-ddd		<.05							
4,4'-dde		<.05							
4,4'-ddt		<.05							
4,6-dinitro-2-methylphenol		<8							
4-aminobiphenyl		<8							
4-bromophenyl phenyl ether		<8							
4-chloro-3-methylphenol		<8							
4-chloroaniline		<8							
4-chlorophenyl phenyl ether		<8							
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline		<8							
4-nitrophenol		<8							
5-nitro-o-toluidine		<8							
7,12-dimethylbenz(a)anthracene		<8							
Acenaphthene		<8							
Acenaphthylene		<8							
Acetone	<10.0	<10.0	<10.0	<10.0	10.7	<10.0	<10.0	<10.0	<10.0
Acetonitrile		<10							
Acetophenone		<8							
Acrolein		<10							
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin		<.05							
Allyl chloride		<1							
Alpha-bhc		<.05							
Anthracene		<8							

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-10

Constituents	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
(3+4)-methylphenol					
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1
1,1-dichloropropene			<1		
1,2,3-trichloropropane	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene					
1,2,4-trichlorobenzene			<1		
1,2-dibromo-3-chloropropane	<5	<5	<1	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1
1,2-dinitrobenzene					
1,3,5-trinitrobenzene					
1,3-dichlorobenzene			<1		
1,3-dichloropropane			<1		
1,3-dinitrobenzene					
1,4-dichlorobenzene	<1	<1	<1	<1	<1
1,4-naphthoquinone					
1,4-phenylenediamine					
1-naphthylamine					
2,2-dichloropropane			<1		
2,3,4,6-tetrachlorophenol					
2,4,5-t					
2,4,5-tp (silvex)					
2,4,5-trichlorophenol					
2,4,6-trichlorophenol					
2,4-d					
2,4-dichlorophenol					
2,4-dimethylphenol					
2,4-dinitrophenol					
2,4-dinitrotoluene					
2,6-dichlorophenol					
2,6-dinitrotoluene					
2-acetylaminofluorene					
2-butanone (mek)	<10	<10	<5	<10	<10
2-chloronaphthalene					
2-chlorophenol					
2-hexanone (mbk)	<5	<5	<5	<5	<5
2-methylnaphthalene					
2-methylphenol					
2-naphthylamine					
2-nitroaniline					
2-nitrophenol					
3,3'-dichlorobenzidine					
3,3'-dimethylbenzidine					
3-methylcholanthrene					
3-nitroaniline					
4,4'-ddd					
4,4'-dde					
4,4'-ddt					
4,6-dinitro-2-methylphenol					
4-aminobiphenyl					
4-bromophenyl phenyl ether					
4-chloro-3-methylphenol					
4-chloroaniline					
4-chlorophenyl phenyl ether					
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5
4-nitroaniline					
4-nitrophenol					
5-nitro-o-toluidine					
7,12-dimethylbenz(a)anthracene					
Acenaphthene					
Acenaphthylene					
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile			<10		
Acetophenone					
Acrolein			<10		
Acrylonitrile	<5	<5	<5	<5	
Aldrin					
Allyl chloride			<1		
Alpha-bhc					
Anthracene					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-10

Constituents	Units	9/17/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/21/2017	10/13/2017	3/9/2018	9/6/2018
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L									<.1
Arochlor 1221	ug/L									<.2
Arochlor 1232	ug/L									<.2
Arochlor 1242	ug/L									<.2
Arochlor 1248	ug/L									<.2
Arochlor 1254	ug/L									<.1
Arochlor 1260	ug/L									<.1
Arsenic, total	ug/L	18.2	6.5	7.1	16.7	9.2	<4.0	18.2	7.7	47.8
Azobenzene	ug/L									<8
Barium, total	ug/L	651	549	481	859	420	370	685	342	761
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4
Benzo(a)anthracene	ug/L									<8
Benzo(a)pyrene	ug/L									<8
Benzo(b)fluoranthene	ug/L									<8
Benzo(g,h,i)perylene	ug/L									<8
Benzo(k)fluoranthene	ug/L									<8
Benzyl alcohol	ug/L									<8
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc	ug/L									<.05
Bis (2-chloroethoxy) methane	ug/L									<8
Bis(2-chloroethyl) ether	ug/L									<8
Bis(2-chloroisopropyl) ether	ug/L									<8
Bis(2-ethylhexyl) phthalate	ug/L									8
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	ug/L									<8
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L									<.1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	ug/L									<8
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene	ug/L									<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene	ug/L									<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	27.8	18.4	6.0	16.3	2.8	3.8	10.7	3.2	13.5
Copper, total	ug/L	7.0	<4.0	<4.0	4.9	<4.0	<4.0	<4.0	<4.0	5.0
Cyanide, total	mg/L									<.005
Delta-bhc	ug/L									<.05
Diallate	ug/L									<8
Dibenzo(a,h)anthracene	ug/L									<8
Dibenzofuran	ug/L									<8
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L									<1
Dieldrin	ug/L									<.05
Diethyl phthalate	ug/L									<8
Dimethoate	ug/L									<.4
Dimethylphthalate	ug/L									<8
Di-n-butyl phthalate	ug/L									<8
Di-n-octyl phthalate	ug/L									<8
Dinoseb	ug/L									<.5
Diphenylamine	ug/L									<8
Disulfoton	ug/L									<.4
Endosulfan i	ug/L									<.05
Endosulfan ii	ug/L									<.05
Endosulfan sulfate	ug/L									<.05
Endrin	ug/L									<.05
Endrin aldehyde	ug/L									<.05
Ethyl methacrylate	ug/L									<10
Ethyl methanesulfonate	ug/L									<8
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L									<.4
Fluoranthene	ug/L									<8
Fluorene	ug/L									<8
Gamma-bhc (lindane)	ug/L									<.05
Heptachlor	ug/L									<.05
Heptachlor epoxide	ug/L									<.05
Hexachlorobenzene	ug/L									<.05

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-10

Constituents	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022	3/24/2023
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016		<1							
Arochlor 1221		<2							
Arochlor 1232		<2							
Arochlor 1242		<2							
Arochlor 1248		<2							
Arochlor 1254		<1							
Arochlor 1260		<1							
Arsenic, total	4.1	11.3	38.6	<4.0	8.7	<4.0	26.6	<4.0	<4.0
Azobenzene		<8							
Barium, total	661	483	871	550	1070	449	1950	441	524
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene		<8							
Benzo(a)pyrene		<8							
Benzo(b)fluoranthene		<8							
Benzo(g,h,i)perylene		<8							
Benzo(k)fluoranthene		<8							
Benzyl alcohol		<8							
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc		<.05							
Bis (2-chloroethoxy) methane		<8							
Bis(2-chloroethyl) ether		<8							
Bis(2-chloroisopropyl) ether		<8							
Bis(2-ethylhexyl) phthalate	<6	<6	14	<6	<6	<6			
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate		<8							
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	5.9	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane		<1							
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate		<8							
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene		<1							
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	37.9	<8.0	<8.0
Chrysene		<8							
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	3.0	2.0	4.0	2.7	11.2	2.5	128.0	1.7	3.0
Copper, total	<4.0	<4.0	<4.0	<4.0	7.0	<4.0	154.0	<4.0	<4.0
Cyanide, total		<.005							
Delta-bhc		<.05							
Diallate		<8							
Dibenzo(a,h)anthracene		<8							
Dibenzofuran		<8							
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane		<1							
Dieldrin		<.05							
Diethyl phthalate		<8							
Dimethoate		<.4							
Dimethylphthalate		<8							
Di-n-butyl phthalate		<8							
Di-n-octyl phthalate		<8							
Dinoseb		<.5							
Diphenylamine		<8							
Disulfoton		<.4							
Endosulfan i		<.05							
Endosulfan ii		<.05							
Endosulfan sulfate		<.05							
Endrin		<.05							
Endrin aldehyde		<.05							
Ethyl methacrylate		<10							
Ethyl methanesulfonate		<8							
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur		<.4							
Fluoranthene		<8							
Fluorene		<8							
Gamma-bhc (lindane)		<.05							
Heptachlor		<.05							
Heptachlor epoxide		<.05							
Hexachlorobenzene		<.05							

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-10

Constituents	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
Antimony, total	<2	<2	<2	<2	<1
Arochlor 1016					
Arochlor 1221					
Arochlor 1232					
Arochlor 1242					
Arochlor 1248					
Arochlor 1254					
Arochlor 1260					
Arsenic, total	<4.0	<4.0	5.2	10.8	<2.0
Azobenzene					
Barium, total	553	465	575	494	402
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene					
Benzo(a)pyrene					
Benzo(b)fluoranthene					
Benzo(g,h,i)perylene					
Benzo(k)fluoranthene					
Benzyl alcohol					
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<.5
Beta-bhc					
Bis (2-chloroethoxy) methane					
Bis(2-chloroethyl) ether					
Bis(2-chloroisopropyl) ether					
Bis(2-ethylhexyl) phthalate				10	
Bromochloromethane	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1
Butyl benzyl phthalate					
Cadmium, total	<.8	<.8	<.8	1.1	.2
Carbon disulfide	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1
Chlordane					
Chlorobenzene	<1	<1	<1	<1	<1
Chlorobenzilate					
Chloroethane	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1
Chloroprene			<1		
Chromium, total	<8.0	<8.0	<8.0	<8.0	1.1
Chrysene					
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1
Cobalt, total	1.7	<.4	2.4	.9	.8
Copper, total	<4.0	<4.0	<4.0	<4.0	<5.0
Cyanide, total					
Delta-bhc					
Diallate					
Dibenzo(a,h)anthracene					
Dibenzofuran					
Dibromochloromethane	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1
Dichlorodifluoromethane			<1		
Dieldrin					
Diethyl phthalate					
Dimethoate					
Dimethylphthalate					
Di-n-butyl phthalate					
Di-n-octyl phthalate					
Dinoseb					
Diphenylamine					
Disulfoton					
Endosulfan i					
Endosulfan ii					
Endosulfan sulfate					
Endrin					
Endrin aldehyde					
Ethyl methacrylate			<10		
Ethyl methanesulfonate					
Ethylbenzene	<1	<1	<1	<1	<1
Famphur					
Fluoranthene					
Fluorene					
Gamma-bhc (lindane)					
Heptachlor					
Heptachlor epoxide					
Hexachlorobenzene					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-10

Constituents	Units	9/17/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/21/2017	10/13/2017	3/9/2018	9/6/2018
Hexachlorobutadiene	ug/L									<8
Hexachlorocyclopentadiene	ug/L									<8
Hexachloroethane	ug/L									<8
Hexachloropropene	ug/L									<8
Indeno(1,2,3-cd)pyrene	ug/L									<8
Isobutanol	mg/L									<1
Isodrin	ug/L									<8
Isophorone	ug/L									<8
Isosafrole	ug/L									<8
Kepone	ug/L									<8
Lead, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Mercury, total	ug/L									<.5
Methacrylonitrile	ug/L									<1
Methapyrilene	ug/L									<8
Methoxychlor	ug/L									<.05
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate	ug/L									<1
Methyl methanesulfonate	ug/L									<8
Methyl parathion	ug/L									<.4
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L									<8
Nickel, total	ug/L	30.6	21.5	8.6	23.3	4.5	9.8	15.0	7.6	15.2
Nitrobenzene	ug/L									<8
N-nitrosodiethylamine	ug/L									<8
N-nitrosodimethylamine	ug/L									<8
N-nitrosodi-n-butylamine	ug/L									<8
N-nitroso-di-n-propylamine	ug/L									<8
N-nitrosodiphenylamine	ug/L									<8
N-nitrosomethylethylamine	ug/L									<8
N-nitrosopiperidine	ug/L									<8
N-nitrosopyrrolidine	ug/L									<8
O,o,o-triethyl phosphorothioate	ug/L									<.4
O-toluidine	ug/L									<8
Parathion	ug/L									<.4
P-dimethylaminoazobenzene	ug/L									<8
Pentachlorobenzene	ug/L									<8
Pentachloronitrobenzene (pcnb)	ug/L									<8
Pentachlorophenol	ug/L									<8
Phenacetin	ug/L									<8
Phenanthrene	ug/L									<8
Phenol	ug/L									<8
Phorate	ug/L									<.4
Pronamide	ug/L									<8
Propionitrile	ug/L									<10
Pyrene	ug/L									<8
Safrole	ug/L									<8
Selenium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<8
Solids, total suspended	mg/L	97	19	12	21	29	112	66		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L									<.1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Thionazin	ug/L									<.4
Tin, total	ug/L									<20
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L									<.2
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	16.4	11.1	19.7	<20.0	<8.0	<8.0	<8.0	<8.0	34.9

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-10

Constituents	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022	3/24/2023
Hexachlorobutadiene		<8							
Hexachlorocyclopentadiene		<8							
Hexachloroethane		<8							
Hexachloropropene		<8							
Indeno(1,2,3-cd)pyrene		<8							
Isobutanol		<1							
Isodrin		<8							
Isophorone		<8							
Isosafrole		<8							
Kepona		<8							
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	65.8	<4.0	<4.0
Mercury, total		<.5							
Methacrylonitrile		<1							
Methapyrilene		<8							
Methoxychlor		<.05							
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate		<1							
Methyl methanesulfonate		<8							
Methyl parathion		<.4							
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<8							
Nickel, total	6.8	<4.0	8.8	4.7	15.4	<4.0	338.0	<4.0	7.5
Nitrobenzene		<8							
N-nitrosodiethylamine		<8							
N-nitrosodimethylamine		<8							
N-nitrosodi-n-butylamine		<8							
N-nitroso-di-n-propylamine		<8							
N-nitrosodiphenylamine		<8							
N-nitrosomethylethylamine		<8							
N-nitrosopiperidine		<8							
N-nitrosopyrrolidine		<8							
O,o,o-triethyl phosphorothioate		<.4							
O-toluidine		<8							
Parathion		<.4							
P-dimethylaminoazobenzene		<8							
Pentachlorobenzene		<8							
Pentachloronitrobenzene (pcnb)		<8							
Pentachlorophenol		<8							
Phenacetin		<8							
Phenanthrene		<8							
Phenol		<8							
Phorate		<.4							
Pronamide		<8							
Propionitrile		<19							
Pyrene		<8							
Safrole		<8							
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	8.4	<4.0	<4.0
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total		<.1							
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin		<.4							
Tin, total		<20							
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene		<.2							
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	108	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	17.7	<20.0	<20.0	<20.0	<20.0	207.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-10

Constituents	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
Hexachlorobutadiene					
Hexachlorocyclopentadiene					
Hexachloroethane					
Hexachloropropene					
Indeno(1,2,3-cd)pyrene					
Isobutanol			<1		
Isodrin					
Isophorone					
Isosafrole					
Kepone					
Lead, total	<4.0	<4.0	<4.0	<4.0	<1.0
Mercury, total			<.5		
Methacrylonitrile			<1		
Methapyrilene					
Methoxychlor					
Methyl iodide	<1	<1	<2	<1	<1
Methyl methacrylate			<1		
Methyl methanesulfonate					
Methyl parathion					
Methylene chloride	<5	<5	<5	<5	<5
Naphthalene					
Nickel, total	<4.0	<4.0	11.7	5.4	6.7
Nitrobenzene					
N-nitrosodiethylamine					
N-nitrosodimethylamine					
N-nitrosodi-n-butylamine					
N-nitroso-di-n-propylamine					
N-nitrosodiphenylamine					
N-nitrosomethylethylamine					
N-nitrosopiperidine					
N-nitrosopyrrolidine					
O,o,o-triethyl phosphorothioate					
O-toluidine					
Parathion					
P-dimethylaminoazobenzene					
Pentachlorobenzene					
Pentachloronitrobenzene (pcnb)					
Pentachlorophenol					
Phenacetin					
Phenanthrene					
Phenol					
Phorate					
Pronamide					
Propionitrile			<10		
Pyrene					
Safrole					
Selenium, total	<4.0	<4.0	<4.0	<4.0	<2.0
Silver, total	<4	<4	<4	<4	<5
Solids, total suspended					
Styrene	<1	<1	<1	<1	<1
Sulfide, total			<.1		
Tetrachloroethylene	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<.5
Thionazin					
Tin, total			<20		
Toluene	<1	<1	<1	<1	<1
Toxaphene					
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2
Zinc, total	<20.0	28.3	<20.0	<20.0	5.8

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	Units	9/17/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/21/2017	10/13/2017	3/9/2018	9/6/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	12.1	<10.0	<10.0
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	452	539	379	275	263	453	390	475	314
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<8	2.0	<8	<8	<8	<8	<8	<8	<8
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	4.0	7.7	<4.0	<4.0	<4.0	4.5	<4.0	4.3	<4.0
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<8
Solids, total suspended	mg/L	14	27	18	16	13	113	143		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0	12.8	<8.0	<20.0	<8.0	<8.0	<8.0	13.9	14.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022	3/24/2023
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	354	234	337	399	292	428	660	402	394
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	<.4	<.4	<.4	4.3	.5	<.4
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	4.8	<4.0	4.6	9.8	6.8	<4.0
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	27.6	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-13

Constituents	Units	9/17/2014	4/28/2015	10/6/2015	4/23/2016	6/13/2016	9/1/2016	3/22/2017	10/13/2017	1/12/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1		<1	<1	<1	
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1		<1	<1	<1	
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1		<1	<1	<1	
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1		<1	<1	<1	
1,1-dichloroethane	ug/L	<1	<1	<1	<1		<1	<1	<1	
1,1-dichloroethylene	ug/L	<1	<1	<1	<1		<1	<1	<1	
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1		<1	<1	<1	
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1		<1	<1	<1	
1,2-dibromoethane	ug/L	<1	<1	<1	<1		<1	<1	<1	
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1		<1	<1	<1	
1,2-dichloroethane	ug/L	<1	<1	<1	<1		<1	<1	<1	
1,2-dichloropropane	ug/L	<1	<1	<1	<1		<1	<1	<1	
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1		<1	<1	<1	
2-butanone (mek)	ug/L	<5	<5	<5	<5		<5	<5	<5	
2-hexanone (mbk)	ug/L	<5	<5	<5	<5		<5	<5	<5	
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5		<5	<5	<5	
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0		<10.0	<10.0	16.9	
Acrylonitrile	ug/L	<5	<5	<5	<5		<5	<5	<5	
Antimony, total	ug/L	<2	<2	<2	<2		<2	<2	<2	
Arsenic, total	ug/L	<4	<4	<4	<4		<4	<4	<4	
Barium, total	ug/L	42.7	66.1	107.0	50.6		135.0	53.8	52.2	
Benzene	ug/L	<1	<1	<1	<1		<1	<1	<1	
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	
Bromochloromethane	ug/L	<1	<1	<1	<1		<1	<1	<1	
Bromodichloromethane	ug/L	<1	<1	<1	<1		<1	<1	<1	
Bromoform	ug/L	<1	<1	<1	<1		<1	<1	<1	
Bromomethane	ug/L	<1	<1	<1	<1		<1	<1	<1	
Cadmium, total	ug/L	<.8	<.8	<.8	<.8		<.8	<.8	<.8	
Carbon disulfide	ug/L	<1	<1	<1	<1		<1	<1	<1	
Carbon tetrachloride	ug/L	<1	<1	<1	<1		<1	<1	<1	
Chlorobenzene	ug/L	<1	<1	<1	<1		<1	<1	<1	
Chloroethane	ug/L	<1	<1	<1	<1		<1	<1	<1	
Chloroform	ug/L	<1	<1	<1	<1		<1	<1	<1	
Chloromethane	ug/L	<1	<1	<1	<1		<1	<1	<1	
Chromium, total	ug/L	<8	<8	<8	<8		<8	<8	<8	
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1		<1	<1	<1	
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1		<1	<1	<1	
Cobalt, total	ug/L	1.1	1.3	<.8	<.8		<.8	<.8	<.8	
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	
Dibromochloromethane	ug/L	<1	<1	<1	<1		<1	<1	<1	
Dibromomethane	ug/L	<1	<1	<1	<1		<1	<1	<1	
Ethylbenzene	ug/L	<1	<1	<1	<1		<1	<1	<1	
Lead, total	ug/L	<4.0	<4.0	9.6	<4.0		<4.0	<4.0	<4.0	
Methyl iodide	ug/L	<1	<1	<1	<1		<1	<1	<1	
Methylene chloride	ug/L	<5	<5	<5	<5		<5	<5	<5	
Nickel, total	ug/L	5.0	5.1	4.4	4.7		<4.0	<4.0	4.1	
Selenium, total	ug/L	<4.0	<4.0	<4.0	4.8	<4.0	<4.0	4.0	4.1	<4.0
Silver, total	ug/L	<4	<4	<4	<4		<4	<4	<4	
Solids, total suspended	mg/L	12	15	9	2		4	4	44	
Styrene	ug/L	<1	<1	<1	<1		<1	<1	<1	
Tetrachloroethylene	ug/L	<1	<1	<1	<1		<1	<1	<1	
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	
Toluene	ug/L	<1	<1	<1	<1		<1	<1	<1	
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1		<1	<1	<1	
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1		<1	<1	<1	
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5		<5	<5	<5	
Trichloroethylene	ug/L	<1	<1	<1	<1		<1	<1	<1	
Trichlorofluoromethane	ug/L	<1	<1	<1	<1		<1	<1	<1	
Vanadium, total	ug/L	<20	<20	<20	<20		<20	<20	<20	
Vinyl acetate	ug/L	<5	<5	<5	<5		<5	<5	<5	
Vinyl chloride	ug/L	<1	<1	<1	<1		<1	<1	<1	
Xylenes, total	ug/L	<2	<2	<2	<2		<2	<2	<2	
Zinc, total	ug/L	<8.0	<8.0	12.1	<20.0		<8.0	<8.0	<8.0	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-13

Constituents	3/9/2018	9/6/2018	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	48.9	53.7	53.6	56.7	52.4	62.4	60.1	50.1	50.6	80.9
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	6.8	<4.0	<4.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	4.1	<4.0	4.9	<4.0	<4.0	<4.0	<4.0	7.2	<4.0	9.1
Selenium, total	<4.0	4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	<4	<8	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended										
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	<8.0	<8.0	<8.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-13

Constituents	3/24/2023	9/7/2023	3/18/2024	9/25/2024	3/11/2025	5/1/2025	9/8/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1		<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1		<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1		<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1		<1
1,1-dichloroethane	<1	<1	<1	<1	<1		<1
1,1-dichloroethylene	<1	<1	<1	<1	<1		<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1		<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5		<5
1,2-dibromoethane	<1	<1	<1	<1	<1		<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1		<1
1,2-dichloroethane	<1	<1	<1	<1	<1		<1
1,2-dichloropropane	<1	<1	<1	<1	<1		<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1		<1
2-butanone (mek)	<10	<10	<10	<10	<10		<10
2-hexanone (mbk)	<5	<5	<5	<5	<5		<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5		<5
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0		<10.0
Acrylonitrile	<5	<5	<5	<5	<5		<5
Antimony, total	<2	<2	<2	<2	<2		<1
Arsenic, total	<4	<4	<4	<4	<4		<2
Barium, total	69.6	50.7	59.0	66.4	63.1		51.9
Benzene	<1	<1	<1	<1	<1		<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0		<5
Bromochloromethane	<1	<1	<1	<1	<1		<1
Bromodichloromethane	<1	<1	<1	<1	<1		<1
Bromoform	<1	<1	<1	<1	<1		<1
Bromomethane	<1	<1	<1	<1	<1		<1
Cadmium, total	<.8	<.8	.8	<.8	2.6	.2	<.2
Carbon disulfide	<1	<1	<1	<1	<1		<1
Carbon tetrachloride	<1	<1	<1	<1	<1		<1
Chlorobenzene	<1	<1	<1	<1	<1		<1
Chloroethane	<1	<1	<1	<1	<1		<1
Chloroform	<1	<1	<1	<1	<1		<1
Chloromethane	<1	<1	<1	<1	<1		<1
Chromium, total	<8	<8	<8	<8	<8		<1
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1		<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1		<1
Cobalt, total	<.4	<.4	<.4	<.4	<.4		<.5
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0		<5.0
Dibromochloromethane	<1	<1	<1	<1	<1		<1
Dibromomethane	<1	<1	<1	<1	<1		<1
Ethylbenzene	<1	<1	<1	<1	<1		<1
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0		<1.0
Methyl iodide	<1	<1	<1	<1	<1		<1
Methylene chloride	<5	<5	<5	<5	<5		<5
Nickel, total	<4.0	4.5	<4.0	<4.0	5.2		<5.0
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0		2.3
Silver, total	<4	<4	<4	<4	<4		<5
Solids, total suspended							
Styrene	<1	<1	<1	<1	<1		<1
Tetrachloroethylene	<1	<1	<1	<1	<1		<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0		<.5
Toluene	<1	<1	<1	<1	<1		<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1		<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1		<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5		<5
Trichloroethylene	<1	<1	<1	<1	<1		<1
Trichlorofluoromethane	<1	<1	<1	<1	<1		<1
Vanadium, total	<20	<20	<20	<20	<20		<2
Vinyl acetate	<5	<5	<5	<5	<5		<5
Vinyl chloride	<1	<1	<1	<1	<1		<1
Xylenes, total	<2	<2	<2	<2	<2		<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0		9.3

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-14

Constituents	Units	9/18/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/22/2017	10/13/2017	3/9/2018	9/6/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	275	246	186	151	129	135	146	137	147
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Calcium, total	mg/L									
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	1.5	1.4	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	ug/L	4.6	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4.0	<4.0	5.6	<4.0	<4.0	<4.0	<4.0	<4.0	11.3
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	5.5	6.9	6.5	6.6	5.3	<4.0	<4.0	<4.0	4.5
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<8
Solids, total suspended	mg/L	67	47	12	10	11	400	120		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	11.0	8.6	<8.0	<20.0	<8.0	<8.0	<8.0	<8.0	8.1

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-14

Constituents	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022	11/29/2022
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-dibromo-3-chloropropane	<1	<1	<5	<5	<5	<5	<5	<5	
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<10	<10	
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	
Barium, total	156	172	162	160	159	152	169	149	
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	3.9	<.8
Calcium, total									
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	
Cobalt, total	<.8	<.8	<.8	<.4	.5	<.4	.4	.8	
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	
Nickel, total	<4.0	<4.0	4.1	7.7	5.4	5.7	6.1	9.8	
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	
Zinc, total	<8.0	<8.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-14

Constituents	3/24/2023	9/7/2023	3/18/2024	9/25/2024	11/25/2024	3/10/2025	9/8/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1		<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1		<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1		<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1		<1	<1
1,1-dichloroethane	<1	<1	<1	<1		<1	<1
1,1-dichloroethylene	<1	<1	<1	<1		<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1		<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5		<5	<5
1,2-dibromoethane	<1	<1	<1	<1		<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1		<1	<1
1,2-dichloroethane	<1	<1	<1	<1		<1	<1
1,2-dichloropropane	<1	<1	<1	<1		<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1		<1	<1
2-butanone (mek)	<10	<10	<10	<10		<10	<10
2-hexanone (mbk)	<5	<5	<5	<5		<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5		<5	<5
Acetone	<10	<10	<10	<10		<10	<10
Acrylonitrile	<5	<5	<5	<5		<5	<5
Antimony, total	<2	<2	<2	<2		<2	<1
Arsenic, total	<4	<4	<4	<4		<4	<2
Barium, total	124	110	137	112		135	124
Benzene	<1	<1	<1	<1		<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0		<4.0	<5
Bromochloromethane	<1	<1	<1	<1		<1	<1
Bromodichloromethane	<1	<1	<1	<1		<1	<1
Bromoform	<1	<1	<1	<1		<1	<1
Bromomethane	<1	<1	<1	<1		<1	<1
Cadmium, total	<.8	<.8	<.8	3.5	<5.0	<.8	6.8
Calcium, total					165		
Carbon disulfide	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	<1	<1	<1	<1		<1	<1
Chlorobenzene	<1	<1	<1	<1		<1	<1
Chloroethane	<1	<1	<1	<1		<1	<1
Chloroform	<1	<1	<1	<1		<1	<1
Chloromethane	<1	<1	<1	<1		<1	<1
Chromium, total	<8	<8	<8	<8		<8	<1
Cis-1,2-dichloroethylene	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1		<1	<1
Cobalt, total	<.4	.5	<.4	.4		<.4	<.5
Copper, total	<4.0	<4.0	<4.0	<4.0		<4.0	<5.0
Dibromochloromethane	<1	<1	<1	<1		<1	<1
Dibromomethane	<1	<1	<1	<1		<1	<1
Ethylbenzene	<1	<1	<1	<1		<1	<1
Lead, total	<4.0	<4.0	<4.0	<4.0		<4.0	<1.0
Methyl iodide	<1	<1	<1	<1		<1	<1
Methylene chloride	<5	<5	<5	<5		<5	<5
Nickel, total	<4.0	7.0	<4.0	4.1		4.3	5.0
Selenium, total	<4	<4	<4	<4		<4	<2
Silver, total	<4	<4	<4	<4		<4	<5
Solids, total suspended							
Styrene	<1	<1	<1	<1		<1	<1
Tetrachloroethylene	<1	<1	<1	<1		<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0		<2.0	<.5
Toluene	<1	<1	<1	<1		<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5		<5	<5
Trichloroethylene	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	<1	<1	<1	<1		<1	<1
Vanadium, total	<20	<20	<20	<20		<20	<2
Vinyl acetate	<5	<5	<5	<5		<5	<5
Vinyl chloride	<1	<1	<1	<1		<1	<1
Xylenes, total	<2	<2	<2	<2		<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0		<20.0	8.4

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-16

Constituents	Units	9/18/2014	4/29/2015	10/6/2015	4/23/2016	9/1/2016	3/22/2017	10/13/2017	1/12/2018
(3+4)-methylphenol	ug/L					<8			
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1-dichloroethane	ug/L	2.0	2.2	1.9	2.5	1.9	1.6	1.8	
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1-dichloropropene	ug/L					<1			
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2,4,5-tetrachlorobenzene	ug/L					<8			
1,2,4-trichlorobenzene	ug/L					<1			
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2-dinitrobenzene	ug/L					<8			
1,3,5-trinitrobenzene	ug/L					<8			
1,3-dichlorobenzene	ug/L					<1			
1,3-dichloropropane	ug/L					<1			
1,3-dinitrobenzene	ug/L					<8			
1,4-dichlorobenzene	ug/L	<1.0	1.5	2.0	1.6	2.1	2.6	2.0	
1,4-naphthoquinone	ug/L					<8			
1,4-phenylenediamine	ug/L					<8			
1-naphthylamine	ug/L					<8			
2,2-dichloropropane	ug/L					<1			
2,3,4,6-tetrachlorophenol	ug/L					<8			
2,4,5-t	ug/L					<.5			
2,4,5-tp (silvex)	ug/L					<.5			
2,4,5-trichlorophenol	ug/L					<8			
2,4,6-trichlorophenol	ug/L					<8			
2,4-d	ug/L					<2			
2,4-dichlorophenol	ug/L					<8			
2,4-dimethylphenol	ug/L					<8			
2,4-dinitrophenol	ug/L					<8			
2,4-dinitrotoluene	ug/L					<8			
2,6-dichlorophenol	ug/L					<8			
2,6-dinitrotoluene	ug/L					<8			
2-acetylaminofluorene	ug/L					<8			
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	
2-chloronaphthalene	ug/L					<8			
2-chlorophenol	ug/L					<8			
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	
2-methylnaphthalene	ug/L					<8			
2-methylphenol	ug/L					<8			
2-naphthylamine	ug/L					<8			
2-nitroaniline	ug/L					<8			
2-nitrophenol	ug/L					<8			
3,3'-dichlorobenzidine	ug/L					<8			
3,3'-dimethylbenzidine	ug/L					<8			
3-methylcholanthrene	ug/L					<8			
3-nitroaniline	ug/L					<8			
4,4'-ddd	ug/L					<.05			
4,4'-dde	ug/L					<.05			
4,4'-ddt	ug/L					<.05			
4,6-dinitro-2-methylphenol	ug/L					<8			
4-aminobiphenyl	ug/L					<8			
4-bromophenyl phenyl ether	ug/L					<8			
4-chloro-3-methylphenol	ug/L					<8			
4-chloroaniline	ug/L					<8			
4-chlorophenyl phenyl ether	ug/L					<8			
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	
4-nitroaniline	ug/L					<8			
4-nitrophenol	ug/L					<8			
5-nitro-o-toluidine	ug/L					<8			
7,12-dimethylbenz(a)anthracene	ug/L					<8			
Acenaphthene	ug/L					<8			
Acenaphthylene	ug/L					<8			
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	13.1	
Acetonitrile	ug/L					<10			
Acetophenone	ug/L					<8			
Acrolein	ug/L					<10			
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	
Aldrin	ug/L					<.05			
Allyl chloride	ug/L					<1			
Alpha-bhc	ug/L					<.05			
Anthracene	ug/L					<8			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-16

Constituents	3/9/2018	9/6/2018	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022
(3+4)-methylphenol								<8		
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	2.4	<1.0	1.7	1.3	<1.0	<1.0	1.2	<1.0	1.9	<1.0
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene								<1		
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene								<8		
1,2,4-trichlorobenzene								<1		
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<5	<5	<5	<1	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
1,2-dinitrobenzene								<8		
1,3,5-trinitrobenzene								<8		
1,3-dichlorobenzene								<1		
1,3-dichloropropane								<1		
1,3-dinitrobenzene								<8		
1,4-dichlorobenzene	1.8	2.7	3.8	<1.0	<1.0	1.8	1.8	2.2	2.1	<1.0
1,4-naphthoquinone								<8		
1,4-phenylenediamine								<8		
1-naphthylamine								<8		
2,2-dichloropropane								<1		
2,3,4,6-tetrachlorophenol								<8		
2,4,5-t								<5		
2,4,5-tp (silvex)								<5		
2,4,5-trichlorophenol								<8		
2,4,6-trichlorophenol								<8		
2,4-d								<1		
2,4-dichlorophenol								<8		
2,4-dimethylphenol								<8		
2,4-dinitrophenol								<8		
2,4-dinitrotoluene								<8		
2,6-dichlorophenol								<8		
2,6-dinitrotoluene								<8		
2-acetylaminofluorene								<8		
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
2-chloronaphthalene								<8		
2-chlorophenol								<8		
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene								<8		
2-methylphenol								<8		
2-naphthylamine								<8		
2-nitroaniline								<8		
2-nitrophenol								<8		
3,3'-dichlorobenzidine								<8		
3,3'-dimethylbenzidine								<8		
3-methylcholanthrene								<8		
3-nitroaniline								<8		
4,4'-ddd								<.05		
4,4'-dde								<.05		
4,4'-ddt								<.05		
4,6-dinitro-2-methylphenol								<8		
4-aminobiphenyl								<8		
4-bromophenyl phenyl ether								<8		
4-chloro-3-methylphenol								<8		
4-chloroaniline								<8		
4-chlorophenyl phenyl ether								<8		
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline								<8		
4-nitrophenol								<8		
5-nitro-o-toluidine								<8		
7,12-dimethylbenz(a)anthracene								<8		
Acenaphthene								<8		
Acenaphthylene								<8		
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile								<10		
Acetophenone								<8		
Acrolein								<10		
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin								<.05		
Allyl chloride								<1		
Alpha-bhc								<.05		
Anthracene								<8		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-16

Constituents	3/24/2023	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
(3+4)-methylphenol						
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1.0	<1.0	1.0	<1.0	1.2	<1.0
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1
1,1-dichloropropene						
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene						
1,2,4-trichlorobenzene						
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene						
1,3,5-trinitrobenzene						
1,3-dichlorobenzene						
1,3-dichloropropane						
1,3-dinitrobenzene						
1,4-dichlorobenzene	<1.0	<1.0	1.8	<1.0	1.2	1.5
1,4-naphthoquinone						
1,4-phenylenediamine						
1-naphthylamine						
2,2-dichloropropane						
2,3,4,6-tetrachlorophenol						
2,4,5-t						
2,4,5-tp (silvex)						
2,4,5-trichlorophenol						
2,4,6-trichlorophenol						
2,4-d						
2,4-dichlorophenol						
2,4-dimethylphenol						
2,4-dinitrophenol						
2,4-dinitrotoluene						
2,6-dichlorophenol						
2,6-dinitrotoluene						
2-acetylaminofluorene						
2-butanone (mek)	<10	<10	<10	<10	<10	<10
2-chloronaphthalene						
2-chlorophenol						
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5
2-methylnaphthalene						
2-methylphenol						
2-naphthylamine						
2-nitroaniline						
2-nitrophenol						
3,3'-dichlorobenzidine						
3,3'-dimethylbenzidine						
3-methylcholanthrene						
3-nitroaniline						
4,4'-ddd						
4,4'-dde						
4,4'-ddt						
4,6-dinitro-2-methylphenol						
4-aminobiphenyl						
4-bromophenyl phenyl ether						
4-chloro-3-methylphenol						
4-chloroaniline						
4-chlorophenyl phenyl ether						
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5
4-nitroaniline						
4-nitrophenol						
5-nitro-o-toluidine						
7,12-dimethylbenz(a)anthracene						
Acenaphthene						
Acenaphthylene						
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile						
Acetophenone						
Acrolein						
Acrylonitrile	<5	<5	<5	<5	<5	<5
Aldrin						
Allyl chloride						
Alpha-bhc						
Anthracene						

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-16

Constituents	Units	9/18/2014	4/29/2015	10/6/2015	4/23/2016	9/1/2016	3/22/2017	10/13/2017	1/12/2018
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	
Arochlor 1016	ug/L					<1			
Arochlor 1221	ug/L					<2			
Arochlor 1232	ug/L					<2			
Arochlor 1242	ug/L					<2			
Arochlor 1248	ug/L					<2			
Arochlor 1254	ug/L					<1			
Arochlor 1260	ug/L					<1			
Arsenic, total	ug/L	34.3	38.5	<4.0	<4.0	<4.0	9.3	19.0	
Azobenzene	ug/L					<8			
Barium, total	ug/L	1130	1370	790	779	711	867	1020	818
Benzene	ug/L	<1.0	<1.0	1.0	<1.0	1.2	1.3	1.1	
Benzo(a)anthracene	ug/L					<8			
Benzo(a)pyrene	ug/L					<8			
Benzo(b)fluoranthene	ug/L					<8			
Benzo(g,h,i)perylene	ug/L					<8			
Benzo(k)fluoranthene	ug/L					<8			
Benzyl alcohol	ug/L					<8			
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Beta-bhc	ug/L					<.05			
Bis (2-chloroethoxy) methane	ug/L					<8			
Bis(2-chloroethyl) ether	ug/L					<8			
Bis(2-chloroisopropyl) ether	ug/L					<8			
Bis(2-ethylhexyl) phthalate	ug/L					<8			
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Butyl benzyl phthalate	ug/L					<8			
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	
Chlordane	ug/L					<1			
Chlorobenzene	ug/L	4.3	4.4	4.9	3.5	6.0	6.4	5.1	
Chlorobenzilate	ug/L					<8			
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Chloroprene	ug/L					<1			
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	
Chrysene	ug/L					<8			
Cis-1,2-dichloroethylene	ug/L	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	1.2	
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Cobalt, total	ug/L	2.5	2.2	2.1	1.9	1.6	1.5	1.5	
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4	
Cyanide, total	mg/L					<.005			
Delta-bhc	ug/L					<.05			
Diallate	ug/L					<8			
Dibenzo(a,h)anthracene	ug/L					<8			
Dibenzofuran	ug/L					<8			
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Dichlorodifluoromethane	ug/L	3.6	2.6	2.9	3.2	3.6	2.2	1.6	
Dieldrin	ug/L					<.05			
Diethyl phthalate	ug/L					<8			
Dimethoate	ug/L					<.4			
Dimethylphthalate	ug/L					<8			
Di-n-butyl phthalate	ug/L					<8			
Di-n-octyl phthalate	ug/L					<8			
Dinoseb	ug/L					<.5			
Diphenylamine	ug/L					<8			
Disulfoton	ug/L					<.4			
Endosulfan i	ug/L					<.05			
Endosulfan ii	ug/L					<.05			
Endosulfan sulfate	ug/L					<.05			
Endrin	ug/L					<.05			
Endrin aldehyde	ug/L					<.05			
Ethyl methacrylate	ug/L					<10			
Ethyl methanesulfonate	ug/L					<8			
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Famphur	ug/L					<.4			
Fluoranthene	ug/L					<8			
Fluorene	ug/L					<8			
Gamma-bhc (lindane)	ug/L					<.05			
Heptachlor	ug/L					<.05			
Heptachlor epoxide	ug/L					<.05			
Hexachlorobenzene	ug/L					<.05			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-16

Constituents	3/9/2018	9/6/2018	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022
Antimony, total	<2	<2		<2	<2	<2	<2	<2	<2	<2
Arochlor 1016								<1		
Arochlor 1221								<2		
Arochlor 1232								<2		
Arochlor 1242								<2		
Arochlor 1248								<2		
Arochlor 1254								<1		
Arochlor 1260								<1		
Arsenic, total	<4.0	<4.0		6.3	9.3	6.5	21.2	10.4	26.5	4.7
Azobenzene								<8		
Barium, total	668	719		796	925	806	1010	798	1010	655
Benzene	<1.0	1.7	2.1	<1.0	1.6	<1.0	1.5	1.3	1.6	<1.0
Benzo(a)anthracene								<8		
Benzo(a)pyrene								<8		
Benzo(b)fluoranthene								<8		
Benzo(g,h,i)perylene								<8		
Benzo(k)fluoranthene								<8		
Benzyl alcohol								<8		
Beryllium, total	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc								<.05		
Bis (2-chloroethoxy) methane								<8		
Bis(2-chloroethyl) ether								<8		
Bis(2-chloroisopropyl) ether								<8		
Bis(2-ethylhexyl) phthalate								<6		
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate								<8		
Cadmium, total	<.8	<.8		<.8	<.8	<.8	.9	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane								<.1		
Chlorobenzene	4.7	8.1	9.7	4.8	8.8	4.7	5.8	7.3	5.2	2.1
Chlorobenzilate								<8		
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene								<1		
Chromium, total	<8	<8		<8	<8	<8	<8	<8	<8	<8
Chrysene								<8		
Cis-1,2-dichloroethylene	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	1.3	<1.0	2.1	<1.0
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	1.3	1.2		1.1	1.3	1.2	1.1	1.0	1.6	.7
Copper, total	<4	<4		<4	<4	<4	<4	<4	<4	<4
Cyanide, total								<.005		
Delta-bhc								<.05		
Diallate								<8		
Dibenzo(a,h)anthracene								<8		
Dibenzofuran								<8		
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	3.0	<1.0	4.6	<1.0	<1.0	<1.0		<1.0		
Dieldrin								<.05		
Diethyl phthalate								<8		
Dimethoate								<.4		
Dimethylphthalate								<8		
Di-n-butyl phthalate								<8		
Di-n-octyl phthalate								<8		
Dinoseb								<.5		
Diphenylamine								<8		
Disulfoton								<.4		
Endosulfan i								<.05		
Endosulfan ii								<.05		
Endosulfan sulfate								<.05		
Endrin								<.05		
Endrin aldehyde								<.05		
Ethyl methacrylate								<10		
Ethyl methanesulfonate								<8		
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur								<.4		
Fluoranthene								<8		
Fluorene								<8		
Gamma-bhc (lindane)								<.05		
Heptachlor								<.05		
Heptachlor epoxide								<.05		
Hexachlorobenzene								<.05		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-16

Constituents	3/24/2023	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
Antimony, total	<2	<2	<2	<2	<2	<1
Arochlor 1016						
Arochlor 1221						
Arochlor 1232						
Arochlor 1242						
Arochlor 1248						
Arochlor 1254						
Arochlor 1260						
Arsenic, total	4.3	<4.0	20.4	26.2	24.0	45.8
Azobenzene						
Barium, total	481	311	713	756	697	1110
Benzene	<1.0	<1.0	1.5	<1.0	1.1	<1.0
Benzo(a)anthracene						
Benzo(a)pyrene						
Benzo(b)fluoranthene						
Benzo(g,h,i)perylene						
Benzo(k)fluoranthene						
Benzyl alcohol						
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Beta-bhc						
Bis (2-chloroethoxy) methane						
Bis(2-chloroethyl) ether						
Bis(2-chloroisopropyl) ether						
Bis(2-ethylhexyl) phthalate						
Bromochloromethane	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate						
Cadmium, total	<.8	<.8	<.8	<.8	1.1	<.2
Carbon disulfide	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlordane						
Chlorobenzene	3.0	<1.0	5.2	2.3	2.7	4.3
Chlorobenzilate						
Chloroethane	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1
Chloroprene						
Chromium, total	<8	<8	<8	<8	<8	<1
Chrysene						
Cis-1,2-dichloroethylene	<1.0	<1.0	<1.0	<1.0	1.3	<1.0
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Cobalt, total	.5	.4	.9	1.7	.9	1.9
Copper, total	<4	<4	<4	<4	<4	<5
Cyanide, total						
Delta-bhc						
Diallate						
Dibenzo(a,h)anthracene						
Dibenzofuran						
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane						
Dieldrin						
Diethyl phthalate						
Dimethoate						
Dimethylphthalate						
Di-n-butyl phthalate						
Di-n-octyl phthalate						
Dinoseb						
Diphenylamine						
Disulfoton						
Endosulfan i						
Endosulfan ii						
Endosulfan sulfate						
Endrin						
Endrin aldehyde						
Ethyl methacrylate						
Ethyl methanesulfonate						
Ethylbenzene	<1	<1	<1	<1	<1	<1
Famphur						
Fluoranthene						
Fluorene						
Gamma-bhc (lindane)						
Heptachlor						
Heptachlor epoxide						
Hexachlorobenzene						

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-16

Constituents	Units	9/18/2014	4/29/2015	10/6/2015	4/23/2016	9/1/2016	3/22/2017	10/13/2017	1/12/2018
Hexachlorobutadiene	ug/L					<8			
Hexachlorocyclopentadiene	ug/L					<8			
Hexachloroethane	ug/L					<8			
Hexachloropropene	ug/L					<8			
Indeno(1,2,3-cd)pyrene	ug/L					<8			
Isobutanol	mg/L					<1			
Isodrin	ug/L					<8			
Isophorone	ug/L					<8			
Isosafrole	ug/L					<8			
Kepone	ug/L					<8			
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	
Mercury, total	ug/L					<.5			
Methacrylonitrile	ug/L					<1			
Methapyrilene	ug/L					<8			
Methoxychlor	ug/L					<.05			
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	
Methyl methacrylate	ug/L					<1			
Methyl methanesulfonate	ug/L					<8			
Methyl parathion	ug/L					<4			
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	
Naphthalene	ug/L					<8			
Nickel, total	ug/L	26.9	29.5	22.9	22.9	18.6	22.4	30.3	
Nitrobenzene	ug/L					<8			
N-nitrosodiethylamine	ug/L					<8			
N-nitrosodimethylamine	ug/L					<8			
N-nitrosodi-n-butylamine	ug/L					<8			
N-nitroso-di-n-propylamine	ug/L					<8			
N-nitrosodiphenylamine	ug/L					<8			
N-nitrosomethylethylamine	ug/L					<8			
N-nitrosopiperidine	ug/L					<8			
N-nitrosopyrrolidine	ug/L					<8			
O,o,o-triethyl phosphorothioate	ug/L					<.4			
O-toluidine	ug/L					<8			
Parathion	ug/L					<.4			
P-dimethylaminoazobenzene	ug/L					<8			
Pentachlorobenzene	ug/L					<8			
Pentachloronitrobenzene (pcnb)	ug/L					<8			
Pentachlorophenol	ug/L					<8			
Phenacetin	ug/L					<8			
Phenanthrene	ug/L					<8			
Phenol	ug/L					<8			
Phorate	ug/L					<.4			
Pronamide	ug/L					<8			
Propionitrile	ug/L					<10			
Pyrene	ug/L					<8			
Safrole	ug/L					<8			
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	
Solids, total suspended	mg/L	96	94	15	7	13	20	210	
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Sulfide, total	mg/L					<.1			
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Thionazin	ug/L					<.4			
Tin, total	ug/L					<20			
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Toxaphene	ug/L					<.2			
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	
Vinyl chloride	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	
Zinc, total	ug/L	<8.0	<8.0	<8.0	<20.0	8.4	<8.0	<8.0	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-16

Constituents	3/9/2018	9/6/2018	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022
Hexachlorobutadiene								<8		
Hexachlorocyclopentadiene								<8		
Hexachloroethane								<8		
Hexachloropropene								<8		
Indeno(1,2,3-cd)pyrene								<8		
Isobutanol								<1		
Isodrin								<8		
Isophorone								<8		
Isosafrole								<8		
Kepone								<8		
Lead, total	<4	4		<4	<4	<4	<4	<4	<4	<4
Mercury, total								<5		
Methacrylonitrile								<1		
Methapyrilene								<8		
Methoxychlor								<.05		
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1
Methyl methacrylate								<1		
Methyl methanesulfonate								<8		
Methyl parathion								<4		
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene								<8		
Nickel, total	20.8	25.9		24.7	29.2	25.9	28.8	27.0	28.8	27.5
Nitrobenzene								<8		
N-nitrosodiethylamine								<8		
N-nitrosodimethylamine								<8		
N-nitrosodi-n-butylamine								<8		
N-nitroso-di-n-propylamine								<8		
N-nitrosodiphenylamine								<8		
N-nitrosomethylethylamine								<8		
N-nitrosopiperidine								<8		
N-nitrosopyrrolidine								<8		
O,o,o-triethyl phosphorothioate								<4		
O-toluidine								<8		
Parathion								<4		
P-dimethylaminoazobenzene								<8		
Pentachlorobenzene								<8		
Pentachloronitrobenzene (pcnb)								<8		
Pentachlorophenol								<8		
Phenacetin								<8		
Phenanthrene								<8		
Phenol								<8		
Phorate								<4		
Pronamide								<8		
Propionitrile								<10		
Pyrene								<8		
Safrole								<8		
Selenium, total	<4	<4		<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<8		<4	<4	<4	<4	<4	<4	<4
Solids, total suspended										
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total								<1		
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin								<4		
Tin, total								<20		
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene								<2		
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20		<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	28.5		8.4	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-16

Constituents	3/24/2023	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
Hexachlorobutadiene						
Hexachlorocyclopentadiene						
Hexachloroethane						
Hexachloropropene						
Indeno(1,2,3-cd)pyrene						
Isobutanol						
Isodrin						
Isophorone						
Isosafrole						
Kepone						
Lead, total	<4	<4	<4	<4	<4	<1
Mercury, total						
Methacrylonitrile						
Methapyrilene						
Methoxychlor						
Methyl iodide	<1	<1	<1	<1	<1	<1
Methyl methacrylate						
Methyl methanesulfonate						
Methyl parathion						
Methylene chloride	<5	<5	<5	<5	<5	<5
Naphthalene						
Nickel, total	24.1	28.7	26.1	36.0	27.8	39.0
Nitrobenzene						
N-nitrosodiethylamine						
N-nitrosodimethylamine						
N-nitrosodi-n-butylamine						
N-nitroso-di-n-propylamine						
N-nitrosodiphenylamine						
N-nitrosomethylethylamine						
N-nitrosopiperidine						
N-nitrosopyrrolidine						
O,o,o-triethyl phosphorothioate						
O-toluidine						
Parathion						
P-dimethylaminoazobenzene						
Pentachlorobenzene						
Pentachloronitrobenzene (pcnb)						
Pentachlorophenol						
Phenacetin						
Phenanthrene						
Phenol						
Phorate						
Pronamide						
Propionitrile						
Pyrene						
Safrole						
Selenium, total	<4	<4	<4	<4	<4	3
Silver, total	<4	<4	<4	<4	<4	<5
Solids, total suspended						
Styrene	<1	<1	<1	<1	<1	<1
Sulfide, total						
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<5
Thionazin						
Tin, total						
Toluene	<1	<1	<1	<1	<1	<1
Toxaphene						
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<5.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-17

Constituents	Units	9/18/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/21/2017	10/13/2017	3/9/2018	9/6/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	91.4	106.0	85.3	99.2	88.5	93.7	89.5	86.5	83.2
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	1.4	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Selenium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<8
Solids, total suspended	mg/L	16	7	2	2	2	59	19		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	8.1	<8.0	<8.0	<20.0	<8.0	<8.0	<8.0	<8.0	<8.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-17

Constituents	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022	3/24/2023	9/7/2023
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	99.9	95.8	102.0	94.6	92.2	89.6	89.9	90.3	84.3	92.4
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	<.4	<.4	<.4	<.4	<.4	<.4	<.4
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended										
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	8.5	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-17

Constituents	3/18/2024	9/25/2024	3/10/2025	9/8/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1
2-butanone (mek)	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5
Acetone	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<1
Arsenic, total	<4	<4	<4	<2
Barium, total	96.4	90.1	84.7	84.1
Benzene	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<.5
Bromochloromethane	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1
Cadmium, total	.8	<.8	<.8	.3
Carbon disulfide	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	1.2
Cis-1,2-dichloroethylene	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.5
Copper, total	<4	<4	<4	<5
Dibromochloromethane	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1
Lead, total	<4	<4	<4	<1
Methyl iodide	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5
Nickel, total	<4	<4	<4	<5
Selenium, total	<4.0	<4.0	<4.0	2.7
Silver, total	<4	<4	<4	<5
Solids, total suspended				
Styrene	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<.5
Toluene	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	7.3

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-18

Constituents	Units	9/17/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/21/2017	10/13/2017	1/12/2018
(3+4)-methylphenol	ug/L					<8			
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1-dichloropropene	ug/L					<1			
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2,4,5-tetrachlorobenzene	ug/L					<8			
1,2,4-trichlorobenzene	ug/L					<1			
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2-dinitrobenzene	ug/L					<8			
1,3,5-trinitrobenzene	ug/L					<8			
1,3-dichlorobenzene	ug/L					<1			
1,3-dichloropropane	ug/L					<1			
1,3-dinitrobenzene	ug/L					<8			
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,4-naphthoquinone	ug/L					<8			
1,4-phenylenediamine	ug/L					<8			
1-naphthylamine	ug/L					<8			
2,2-dichloropropane	ug/L					<1			
2,3,4,6-tetrachlorophenol	ug/L					<8			
2,4,5-t	ug/L					<5			
2,4,5-tp (silvex)	ug/L					<5			
2,4,5-trichlorophenol	ug/L					<8			
2,4,6-trichlorophenol	ug/L					<8			
2,4-d	ug/L					<2			
2,4-dichlorophenol	ug/L					<8			
2,4-dimethylphenol	ug/L					<8			
2,4-dinitrophenol	ug/L					<8			
2,4-dinitrotoluene	ug/L					<8			
2,6-dichlorophenol	ug/L					<8			
2,6-dinitrotoluene	ug/L					<8			
2-acetylaminofluorene	ug/L					<8			
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	
2-chloronaphthalene	ug/L					<8			
2-chlorophenol	ug/L					<8			
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	
2-methylnaphthalene	ug/L					<8			
2-methylphenol	ug/L					<8			
2-naphthylamine	ug/L					<8			
2-nitroaniline	ug/L					<8			
2-nitrophenol	ug/L					<8			
3,3'-dichlorobenzidine	ug/L					<8			
3,3'-dimethylbenzidine	ug/L					<8			
3-methylcholanthrene	ug/L					<8			
3-nitroaniline	ug/L					<8			
4,4'-ddd	ug/L					<.05			
4,4'-dde	ug/L					<.05			
4,4'-ddt	ug/L					<.05			
4,6-dinitro-2-methylphenol	ug/L					<8			
4-aminobiphenyl	ug/L					<8			
4-bromophenyl phenyl ether	ug/L					<8			
4-chloro-3-methylphenol	ug/L					<8			
4-chloroaniline	ug/L					<8			
4-chlorophenyl phenyl ether	ug/L					<8			
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	
4-nitroaniline	ug/L					<8			
4-nitrophenol	ug/L					<8			
5-nitro-o-toluidine	ug/L					<8			
7,12-dimethylbenz(a)anthracene	ug/L					<8			
Acenaphthene	ug/L					<8			
Acenaphthylene	ug/L					<8			
Acetone	ug/L	<10	<10	<10	<10	<10	<10	18	<10
Acetonitrile	ug/L					<10			
Acetophenone	ug/L					<8			
Acrolein	ug/L					<10			
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	
Aldrin	ug/L					<.05			
Allyl chloride	ug/L					<1			
Alpha-bhc	ug/L					<.05			
Anthracene	ug/L					<8			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-18

Constituents	3/9/2018	9/6/2018	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022
(3+4)-methylphenol								<8		
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene								<1		
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene								<8		
1,2,4-trichlorobenzene								<1		
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<5	<5	<5	<1	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene								<8		
1,3,5-trinitrobenzene								<8		
1,3-dichlorobenzene								<1		
1,3-dichloropropane								<1		
1,3-dinitrobenzene								<8		
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone								<8		
1,4-phenylenediamine								<8		
1-naphthylamine								<8		
2,2-dichloropropane								<1		
2,3,4,6-tetrachlorophenol								<8		
2,4,5-t								<5		
2,4,5-tp (silvex)								<5		
2,4,5-trichlorophenol								<8		
2,4,6-trichlorophenol								<8		
2,4-d								<1		
2,4-dichlorophenol								<8		
2,4-dimethylphenol								<8		
2,4-dinitrophenol								<8		
2,4-dinitrotoluene								<8		
2,6-dichlorophenol								<8		
2,6-dinitrotoluene								<8		
2-acetylaminofluorene								<8		
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
2-chloronaphthalene								<8		
2-chlorophenol								<8		
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene								<8		
2-methylphenol								<8		
2-naphthylamine								<8		
2-nitroaniline								<8		
2-nitrophenol								<8		
3,3'-dichlorobenzidine								<8		
3,3'-dimethylbenzidine								<8		
3-methylcholanthrene								<8		
3-nitroaniline								<8		
4,4'-ddd								<.05		
4,4'-dde								<.05		
4,4'-ddt								<.05		
4,6-dinitro-2-methylphenol								<8		
4-aminobiphenyl								<8		
4-bromophenyl phenyl ether								<8		
4-chloro-3-methylphenol								<8		
4-chloroaniline								<8		
4-chlorophenyl phenyl ether								<8		
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline								<8		
4-nitrophenol								<8		
5-nitro-o-toluidine								<8		
7,12-dimethylbenz(a)anthracene								<8		
Acenaphthene								<8		
Acenaphthylene								<8		
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile								<10		
Acetophenone								<8		
Acrolein								<10		
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin								<.05		
Allyl chloride								<1		
Alpha-bhc								<.05		
Anthracene								<8		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-18

Constituents	3/24/2023	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
(3+4)-methylphenol						
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1
1,1-dichloropropene						
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene						
1,2,4-trichlorobenzene						
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene						
1,3,5-trinitrobenzene						
1,3-dichlorobenzene						
1,3-dichloropropane						
1,3-dinitrobenzene						
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone						
1,4-phenylenediamine						
1-naphthylamine						
2,2-dichloropropane						
2,3,4,6-tetrachlorophenol						
2,4,5-t						
2,4,5-tp (silvex)						
2,4,5-trichlorophenol						
2,4,6-trichlorophenol						
2,4-d						
2,4-dichlorophenol						
2,4-dimethylphenol						
2,4-dinitrophenol						
2,4-dinitrotoluene						
2,6-dichlorophenol						
2,6-dinitrotoluene						
2-acetylaminofluorene						
2-butanone (mek)	<10	<10	<10	<10	<10	<10
2-chloronaphthalene						
2-chlorophenol						
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5
2-methylnaphthalene						
2-methylphenol						
2-naphthylamine						
2-nitroaniline						
2-nitrophenol						
3,3'-dichlorobenzidine						
3,3'-dimethylbenzidine						
3-methylcholanthrene						
3-nitroaniline						
4,4'-ddd						
4,4'-dde						
4,4'-ddt						
4,6-dinitro-2-methylphenol						
4-aminobiphenyl						
4-bromophenyl phenyl ether						
4-chloro-3-methylphenol						
4-chloroaniline						
4-chlorophenyl phenyl ether						
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5
4-nitroaniline						
4-nitrophenol						
5-nitro-o-toluidine						
7,12-dimethylbenz(a)anthracene						
Acenaphthene						
Acenaphthylene						
Acetone	<10	<10	<10	<10	<10	<10
Acetonitrile						
Acetophenone						
Acrolein						
Acrylonitrile	<5	<5	<5	<5	<5	<5
Aldrin						
Allyl chloride						
Alpha-bhc						
Anthracene						

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-18

Constituents	Units	9/17/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/21/2017	10/13/2017	1/12/2018
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	
Arochlor 1016	ug/L					<1			
Arochlor 1221	ug/L					<2			
Arochlor 1232	ug/L					<2			
Arochlor 1242	ug/L					<2			
Arochlor 1248	ug/L					<2			
Arochlor 1254	ug/L					<1			
Arochlor 1260	ug/L					<1			
Arsenic, total	ug/L	22.0	45.9	39.2	51.8	81.4	49.7	50.1	
Azobenzene	ug/L					<8			
Barium, total	ug/L	531	787	797	873	1270	646	614	
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0
Benzo(a)anthracene	ug/L					<8			
Benzo(a)pyrene	ug/L					<8			
Benzo(b)fluoranthene	ug/L					<8			
Benzo(g,h,i)perylene	ug/L					<8			
Benzo(k)fluoranthene	ug/L					<8			
Benzyl alcohol	ug/L					<8			
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Beta-bhc	ug/L					<.05			
Bis (2-chloroethoxy) methane	ug/L					<8			
Bis(2-chloroethyl) ether	ug/L					<8			
Bis(2-chloroisopropyl) ether	ug/L					<8			
Bis(2-ethylhexyl) phthalate	ug/L					<8			
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Butyl benzyl phthalate	ug/L					<8			
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	
Chlordane	ug/L					<1			
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Chlorobenzilate	ug/L					<8			
Chloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Chloroprene	ug/L					<1			
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	
Chrysene	ug/L					<8			
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Cobalt, total	ug/L	23.9	47.6	23.2	22.9	28.4	8.1	13.4	
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Cyanide, total	mg/L					<.005			
Delta-bhc	ug/L					<.05			
Diallate	ug/L					<8			
Dibenzo(a,h)anthracene	ug/L					<8			
Dibenzofuran	ug/L					<8			
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Dichlorodifluoromethane	ug/L					<1			
Dieldrin	ug/L					<.05			
Diethyl phthalate	ug/L					<8			
Dimethoate	ug/L					<.4			
Dimethylphthalate	ug/L					<8			
Di-n-butyl phthalate	ug/L					<8			
Di-n-octyl phthalate	ug/L					<8			
Dinoseb	ug/L					<.5			
Diphenylamine	ug/L					<8			
Disulfoton	ug/L					<.4			
Endosulfan i	ug/L					<.05			
Endosulfan ii	ug/L					<.05			
Endosulfan sulfate	ug/L					<.05			
Endrin	ug/L					<.05			
Endrin aldehyde	ug/L					<.05			
Ethyl methacrylate	ug/L					<10			
Ethyl methanesulfonate	ug/L					<8			
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Famphur	ug/L					<.4			
Fluoranthene	ug/L					<8			
Fluorene	ug/L					<8			
Gamma-bhc (lindane)	ug/L					<.05			
Heptachlor	ug/L					<.05			
Heptachlor epoxide	ug/L					<.05			
Hexachlorobenzene	ug/L					<.05			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-18

Constituents	3/9/2018	9/6/2018	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016								<1		
Arochlor 1221								<2		
Arochlor 1232								<2		
Arochlor 1242								<2		
Arochlor 1248								<2		
Arochlor 1254								<1		
Arochlor 1260								<1		
Arsenic, total	46.1	74.4	87.2	99.4	81.7	34.8	9.6	36.0	34.7	24.1
Azobenzene								<8		
Barium, total	446	915	1260	951	987	603	434	455	466	539
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene								<8		
Benzo(a)pyrene								<8		
Benzo(b)fluoranthene								<8		
Benzo(g,h,i)perylene								<8		
Benzo(k)fluoranthene								<8		
Benzyl alcohol								<8		
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc								<.05		
Bis (2-chloroethoxy) methane								<8		
Bis(2-chloroethyl) ether								<8		
Bis(2-chloroisopropyl) ether								<8		
Bis(2-ethylhexyl) phthalate								<6		
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate								<8		
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane								<.1		
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate								<8		
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene								<1		
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene								<8		
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	3.1	7.5	16.9	6.8	10.4	2.0	6.0	1.3	1.3	1.2
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total								<.005		
Delta-bhc								<.05		
Diallate								<8		
Dibenzo(a,h)anthracene								<8		
Dibenzofuran								<8		
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane								<1		
Dieldrin								<.05		
Diethyl phthalate								<8		
Dimethoate								<.4		
Dimethylphthalate								<8		
Di-n-butyl phthalate								<8		
Di-n-octyl phthalate								<8		
Dinoseb								<.5		
Diphenylamine								<8		
Disulfoton								<.4		
Endosulfan i								<.05		
Endosulfan ii								<.05		
Endosulfan sulfate								<.05		
Endrin								<.05		
Endrin aldehyde								<.05		
Ethyl methacrylate								<10		
Ethyl methanesulfonate								<8		
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur								<.4		
Fluoranthene								<8		
Fluorene								<8		
Gamma-bhc (lindane)								<.05		
Heptachlor								<.05		
Heptachlor epoxide								<.05		
Hexachlorobenzene								<.05		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-18

Constituents	3/24/2023	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
Antimony, total	<2	<2	<2	<2	<2	<1
Arochlor 1016						
Arochlor 1221						
Arochlor 1232						
Arochlor 1242						
Arochlor 1248						
Arochlor 1254						
Arochlor 1260						
Arsenic, total	67.4	26.9	23.7	43.6	31.2	40.3
Azobenzene						
Barium, total	861	422	377	416	393	539
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene						
Benzo(a)pyrene						
Benzo(b)fluoranthene						
Benzo(g,h,i)perylene						
Benzo(k)fluoranthene						
Benzyl alcohol						
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Beta-bhc						
Bis (2-chloroethoxy) methane						
Bis(2-chloroethyl) ether						
Bis(2-chloroisopropyl) ether						
Bis(2-ethylhexyl) phthalate						
Bromochloromethane	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate						
Cadmium, total	<.8	<.8	<.8	.9	<.8	.2
Carbon disulfide	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlordane						
Chlorobenzene	<1	<1	<1	<1	<1	<1
Chlorobenzilate						
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1
Chloroprene						
Chromium, total	<8	<8	<8	<8	<8	<1
Chrysene						
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Cobalt, total	5.9	.9	.9	1.0	.8	1.2
Copper, total	<4.0	<4.0	<4.0	<4.0	16.2	<5.0
Cyanide, total						
Delta-bhc						
Diallate						
Dibenzo(a,h)anthracene						
Dibenzofuran						
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane						
Dieldrin						
Diethyl phthalate						
Dimethoate						
Dimethylphthalate						
Di-n-butyl phthalate						
Di-n-octyl phthalate						
Dinoseb						
Diphenylamine						
Disulfoton						
Endosulfan i						
Endosulfan ii						
Endosulfan sulfate						
Endrin						
Endrin aldehyde						
Ethyl methacrylate						
Ethyl methanesulfonate						
Ethylbenzene	<1	<1	<1	<1	<1	<1
Famphur						
Fluoranthene						
Fluorene						
Gamma-bhc (lindane)						
Heptachlor						
Heptachlor epoxide						
Hexachlorobenzene						

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-18

Constituents	Units	9/17/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/21/2017	10/13/2017	1/12/2018
Hexachlorobutadiene	ug/L					<8			
Hexachlorocyclopentadiene	ug/L					<8			
Hexachloroethane	ug/L					<8			
Hexachloropropene	ug/L					<8			
Indeno(1,2,3-cd)pyrene	ug/L					<8			
Isobutanol	mg/L					<1			
Isodrin	ug/L					<8			
Isophorone	ug/L					<8			
Isosafrole	ug/L					<8			
Kepone	ug/L					<8			
Lead, total	ug/L	<4.0	<4.0	4.4	<4.0	<4.0	<4.0	<4.0	
Mercury, total	ug/L					<.5			
Methacrylonitrile	ug/L					<1			
Methapyrilene	ug/L					<8			
Methoxychlor	ug/L					<.05			
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	
Methyl methacrylate	ug/L					<1			
Methyl methanesulfonate	ug/L					<8			
Methyl parathion	ug/L					<4			
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	
Naphthalene	ug/L					<8			
Nickel, total	ug/L	46.6	106.0	30.8	34.0	27.0	15.2	13.1	
Nitrobenzene	ug/L					<8			
N-nitrosodiethylamine	ug/L					<8			
N-nitrosodimethylamine	ug/L					<8			
N-nitrosodi-n-butylamine	ug/L					<8			
N-nitroso-di-n-propylamine	ug/L					<8			
N-nitrosodiphenylamine	ug/L					<8			
N-nitrosomethylethylamine	ug/L					<8			
N-nitrosopiperidine	ug/L					<8			
N-nitrosopyrrolidine	ug/L					<8			
O,o,o-triethyl phosphorothioate	ug/L					<.4			
O-toluidine	ug/L					<8			
Parathion	ug/L					<.4			
P-dimethylaminoazobenzene	ug/L					<8			
Pentachlorobenzene	ug/L					<8			
Pentachloronitrobenzene (pcnb)	ug/L					<8			
Pentachlorophenol	ug/L					<8			
Phenacetin	ug/L					<8			
Phenanthrene	ug/L					<8			
Phenol	ug/L					<8			
Phorate	ug/L					<.4			
Pronamide	ug/L					<8			
Propionitrile	ug/L					<10			
Pyrene	ug/L					<8			
Safrole	ug/L					<8			
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	
Solids, total suspended	mg/L	122	196	143	134	162	150	417	
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Sulfide, total	mg/L					<.1			
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Thionazin	ug/L					<.4			
Tin, total	ug/L					<20			
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Toxaphene	ug/L					<.2			
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	
Zinc, total	ug/L	16.3	26.9	<8.0	<20.0	<8.0	<8.0	<8.0	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-18

Constituents	3/9/2018	9/6/2018	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022
Hexachlorobutadiene								<8		
Hexachlorocyclopentadiene								<8		
Hexachloroethane								<8		
Hexachloropropene								<8		
Indeno(1,2,3-cd)pyrene								<8		
Isobutanol								<1		
Isodrin								<8		
Isophorone								<8		
Isosafrole								<8		
Kepone								<8		
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Mercury, total								<5		
Methacrylonitrile								<1		
Methapyrene								<8		
Methoxychlor								<.05		
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1
Methyl methacrylate								<1		
Methyl methanesulfonate								<8		
Methyl parathion								<4		
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene								<8		
Nickel, total	7.6	9.2	22.3	10.3	20.4	10.8	5.3	5.4	5.2	<4.0
Nitrobenzene								<8		
N-nitrosodiethylamine								<8		
N-nitrosodimethylamine								<8		
N-nitrosodi-n-butylamine								<8		
N-nitroso-di-n-propylamine								<8		
N-nitrosodiphenylamine								<8		
N-nitrosomethylethylamine								<8		
N-nitrosopiperidine								<8		
N-nitrosopyrrolidine								<8		
O,o,o-triethyl phosphorothioate								<4		
O-toluidine								<8		
Parathion								<4		
P-dimethylaminoazobenzene								<8		
Pentachlorobenzene								<8		
Pentachloronitrobenzene (pcnb)								<8		
Pentachlorophenol								<8		
Phenacetin								<8		
Phenanthrene								<8		
Phenol								<8		
Phorate								<4		
Pronamide								<8		
Propionitrile								<10		
Pyrene								<8		
Safrole								<8		
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<8	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended										
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total								<1		
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin								<4		
Tin, total								<20		
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene								<2		
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	36.3	<8.0	<8.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-18

Constituents	3/24/2023	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
Hexachlorobutadiene						
Hexachlorocyclopentadiene						
Hexachloroethane						
Hexachloropropene						
Indeno(1,2,3-cd)pyrene						
Isobutanol						
Isodrin						
Isophorone						
Isosafrole						
Kepone						
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
Mercury, total						
Methacrylonitrile						
Methapyrilene						
Methoxychlor						
Methyl iodide	<1	<1	<1	<1	<1	<1
Methyl methacrylate						
Methyl methanesulfonate						
Methyl parathion						
Methylene chloride	<5	<5	<5	<5	<5	<5
Naphthalene						
Nickel, total	16.9	4.5	6.3	5.4	8.2	5.7
Nitrobenzene						
N-nitrosodiethylamine						
N-nitrosodimethylamine						
N-nitrosodi-n-butylamine						
N-nitroso-di-n-propylamine						
N-nitrosodiphenylamine						
N-nitrosomethylethylamine						
N-nitrosopiperidine						
N-nitrosopyrrolidine						
O,o,o-triethyl phosphorothioate						
O-toluidine						
Parathion						
P-dimethylaminoazobenzene						
Pentachlorobenzene						
Pentachloronitrobenzene (pcnb)						
Pentachlorophenol						
Phenacetin						
Phenanthrene						
Phenol						
Phorate						
Pronamide						
Propionitrile						
Pyrene						
Safrole						
Selenium, total	<4	<4	<4	<4	<4	<2
Silver, total	<4	<4	<4	<4	<4	<5
Solids, total suspended						
Styrene	<1	<1	<1	<1	<1	<1
Sulfide, total						
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<5
Thionazin						
Tin, total						
Toluene	<1	<1	<1	<1	<1	<1
Toxaphene						
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	14.8

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	Units	9/17/2014	4/29/2015	10/6/2015	4/23/2016	9/1/2016	3/22/2017	10/13/2017	3/9/2018	9/6/2018
(3+4)-methylphenol	ug/L						<8			
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	1.8	<1.0	1.3	2.2	1.6	2.2	1.0	3.1	3.0
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L						<1			
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L						<8			
1,2,4-trichlorobenzene	ug/L						<1			
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene	ug/L						<8			
1,3,5-trinitrobenzene	ug/L						<8			
1,3-dichlorobenzene	ug/L						<1			
1,3-dichloropropane	ug/L						<1			
1,3-dinitrobenzene	ug/L						<8			
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L						<8			
1,4-phenylenediamine	ug/L						<8			
1-naphthylamine	ug/L						<8			
2,2-dichloropropane	ug/L						<1			
2,3,4,6-tetrachlorophenol	ug/L						<8			
2,4,5-t	ug/L						<.5			
2,4,5-tp (silvex)	ug/L						<.5			
2,4,5-trichlorophenol	ug/L						<8			
2,4,6-trichlorophenol	ug/L						<8			
2,4-d	ug/L						<2			
2,4-dichlorophenol	ug/L						<8			
2,4-dimethylphenol	ug/L						<8			
2,4-dinitrophenol	ug/L						<8			
2,4-dinitrotoluene	ug/L						<8			
2,6-dichlorophenol	ug/L						<8			
2,6-dinitrotoluene	ug/L						<8			
2-acetylaminofluorene	ug/L						<8			
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene	ug/L						<8			
2-chlorophenol	ug/L						<8			
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L						<8			
2-methylphenol	ug/L						<8			
2-naphthylamine	ug/L						<8			
2-nitroaniline	ug/L						<8			
2-nitrophenol	ug/L						<8			
3,3'-dichlorobenzidine	ug/L						<8			
3,3'-dimethylbenzidine	ug/L						<8			
3-methylcholanthrene	ug/L						<8			
3-nitroaniline	ug/L						<8			
4,4'-ddd	ug/L						<.05			
4,4'-dde	ug/L						<.05			
4,4'-ddt	ug/L						<.05			
4,6-dinitro-2-methylphenol	ug/L						<8			
4-aminobiphenyl	ug/L						<8			
4-bromophenyl phenyl ether	ug/L						<8			
4-chloro-3-methylphenol	ug/L						<8			
4-chloroaniline	ug/L						<8			
4-chlorophenyl phenyl ether	ug/L						<8			
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	ug/L						<8			
4-nitrophenol	ug/L						<8			
5-nitro-o-toluidine	ug/L						<8			
7,12-dimethylbenz(a)anthracene	ug/L						<8			
Acenaphthene	ug/L						<8			
Acenaphthylene	ug/L						<8			
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	19.8	<10.0	15.9
Acetonitrile	ug/L						<10			
Acetophenone	ug/L						<8			
Acrolein	ug/L						<10			
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin	ug/L						<.05			
Allyl chloride	ug/L						<1			
Alpha-bhc	ug/L						<.05			
Anthracene	ug/L						<8			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022	3/24/2023
(3+4)-methylphenol								<8	
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1.0	<1.0	<1.0	2.3	2.6	3.4	4.9	3.8	3.1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene								<1	
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene								<8	
1,2,4-trichlorobenzene								<1	
1,2-dibromo-3-chloropropane	<1	<1	<5	<5	<5	<5	<5	<1	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene								<8	
1,3,5-trinitrobenzene								<8	
1,3-dichlorobenzene								<1	
1,3-dichloropropane								<1	
1,3-dinitrobenzene								<8	
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone								<8	
1,4-phenylenediamine								<8	
1-naphthylamine								<8	
2,2-dichloropropane								<1	
2,3,4,6-tetrachlorophenol								<8	
2,4,5-t								<.5	
2,4,5-tp (silvex)								<.5	
2,4,5-trichlorophenol								<8	
2,4,6-trichlorophenol								<8	
2,4-d								<2	
2,4-dichlorophenol								<8	
2,4-dimethylphenol								<8	
2,4-dinitrophenol								<8	
2,4-dinitrotoluene								<8	
2,6-dichlorophenol								<8	
2,6-dinitrotoluene								<8	
2-acetylaminofluorene								<8	
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<10	<5	<10
2-chloronaphthalene								<8	
2-chlorophenol								<8	
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene								<8	
2-methylphenol								<8	
2-naphthylamine								<8	
2-nitroaniline								<8	
2-nitrophenol								<8	
3,3'-dichlorobenzidine								<8	
3,3'-dimethylbenzidine								<8	
3-methylcholanthrene								<8	
3-nitroaniline								<8	
4,4'-ddd								<.05	
4,4'-dde								<.05	
4,4'-ddt								<.05	
4,6-dinitro-2-methylphenol								<8	
4-aminobiphenyl								<8	
4-bromophenyl phenyl ether								<8	
4-chloro-3-methylphenol								<8	
4-chloroaniline								<8	
4-chlorophenyl phenyl ether								<8	
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline								<8	
4-nitrophenol								<8	
5-nitro-o-toluidine								<8	
7,12-dimethylbenz(a)anthracene								<8	
Acenaphthene								<8	
Acenaphthylene								<8	
Acetone	<10.0	107.0	<10.0	11.2	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile								<10	
Acetophenone								<8	
Acrolein								<10	
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin								<.05	
Allyl chloride								<1	
Alpha-bhc								<.05	
Anthracene								<8	

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Table 9

Analytical Data Summary for MW-19

Constituents	9/7/2023	3/18/2024
(3+4)-methylphenol		
1,1,1,2-tetrachloroethane	<1	<1
1,1,1-trichloroethane	<1	<1
1,1,2,2-tetrachloroethane	<1	<1
1,1,2-trichloroethane	<1	<1
1,1-dichloroethane	2.9	2.3
1,1-dichloroethylene	<1	<1
1,1-dichloropropene		
1,2,3-trichloropropane	<1	<1
1,2,4,5-tetrachlorobenzene		
1,2,4-trichlorobenzene		
1,2-dibromo-3-chloropropane	<5	<5
1,2-dibromoethane	<1	<1
1,2-dichlorobenzene	<1	<1
1,2-dichloroethane	<1	<1
1,2-dichloropropane	<1	<1
1,2-dinitrobenzene		
1,3,5-trinitrobenzene		
1,3-dichlorobenzene		
1,3-dichloropropane		
1,3-dinitrobenzene		
1,4-dichlorobenzene	<1	<1
1,4-naphthoquinone		
1,4-phenylenediamine		
1-naphthylamine		
2,2-dichloropropane		
2,3,4,6-tetrachlorophenol		
2,4,5-t		
2,4,5-tp (silvex)		
2,4,5-trichlorophenol		
2,4,6-trichlorophenol		
2,4-d		
2,4-dichlorophenol		
2,4-dimethylphenol		
2,4-dinitrophenol		
2,4-dinitrotoluene		
2,6-dichlorophenol		
2,6-dinitrotoluene		
2-acetylaminofluorene		
2-butanone (mek)	<10	<10
2-chloronaphthalene		
2-chlorophenol		
2-hexanone (mbk)	<5	<5
2-methylnaphthalene		
2-methylphenol		
2-naphthylamine		
2-nitroaniline		
2-nitrophenol		
3,3'-dichlorobenzidine		
3,3'-dimethylbenzidine		
3-methylcholanthrene		
3-nitroaniline		
4,4'-ddd		
4,4'-dde		
4,4'-ddt		
4,6-dinitro-2-methylphenol		
4-aminobiphenyl		
4-bromophenyl phenyl ether		
4-chloro-3-methylphenol		
4-chloroaniline		
4-chlorophenyl phenyl ether		
4-methyl-2-pentanone (mibk)	<5	<5
4-nitroaniline		
4-nitrophenol		
5-nitro-o-toluidine		
7,12-dimethylbenz(a)anthracene		
Acenaphthene		
Acenaphthylene		
Acetone	<10.0	<10.0
Acetonitrile		
Acetophenone		
Acrolein		
Acrylonitrile	<5	<5
Aldrin		
Allyl chloride		
Alpha-bhc		
Anthracene		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	Units	9/17/2014	4/29/2015	10/6/2015	4/23/2016	9/1/2016	3/22/2017	10/13/2017	3/9/2018	9/6/2018
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L						<.1			
Arochlor 1221	ug/L						<.2			
Arochlor 1232	ug/L						<.2			
Arochlor 1242	ug/L						<.2			
Arochlor 1248	ug/L						<.2			
Arochlor 1254	ug/L						<.1			
Arochlor 1260	ug/L						<.1			
Arsenic, total	ug/L	<4.0	7.6	6.6	8.3	13.5	4.1	12.3	4.6	<4.0
Azobenzene	ug/L						<8			
Barium, total	ug/L	182	215	135	172	170	167	286	180	185
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene	ug/L						<8			
Benzo(a)pyrene	ug/L						<8			
Benzo(b)fluoranthene	ug/L						<8			
Benzo(g,h,i)perylene	ug/L						<8			
Benzo(k)fluoranthene	ug/L						<8			
Benzyl alcohol	ug/L						<8			
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc	ug/L						<.05			
Bis (2-chloroethoxy) methane	ug/L						<8			
Bis(2-chloroethyl) ether	ug/L						<8			
Bis(2-chloroisopropyl) ether	ug/L						<8			
Bis(2-ethylhexyl) phthalate	ug/L						<8			
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	ug/L						<8			
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L						<.1			
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	ug/L						<8			
Chloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroprene	ug/L						<1			
Chromium, total	ug/L	<8.0	8.3	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene	ug/L						<8			
Cis-1,2-dichloroethylene	ug/L	<1.0	<1.0	<1.0	1.3	1.1	1.5	<1.0	1.9	2.6
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	1.4	5.9	1.8	1.7	2.8	1.6	12.0	1.4	1.0
Copper, total	ug/L	<4.0	9.9	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total	mg/L						<.005			
Delta-bhc	ug/L						<.05			
Diallate	ug/L						<8			
Dibenzo(a,h)anthracene	ug/L						<8			
Dibenzofuran	ug/L						<8			
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L	<1					1			<1
Dieldrin	ug/L						<.05			
Diethyl phthalate	ug/L						<8			
Dimethoate	ug/L						<.4			
Dimethylphthalate	ug/L						<8			
Di-n-butyl phthalate	ug/L						<8			
Di-n-octyl phthalate	ug/L						<8			
Dinoseb	ug/L						<.5			
Diphenylamine	ug/L						<8			
Disulfoton	ug/L						<.4			
Endosulfan i	ug/L						<.05			
Endosulfan ii	ug/L						<.05			
Endosulfan sulfate	ug/L						<.05			
Endrin	ug/L						<.05			
Endrin aldehyde	ug/L						<.05			
Ethyl methacrylate	ug/L						<10			
Ethyl methanesulfonate	ug/L						<8			
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L						<.4			
Fluoranthene	ug/L						<8			
Fluorene	ug/L						<8			
Gamma-bhc (lindane)	ug/L						<.05			
Heptachlor	ug/L						<.05			
Heptachlor epoxide	ug/L						<.05			
Hexachlorobenzene	ug/L						<.05			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022	3/24/2023
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016								<.1	
Arochlor 1221								<.2	
Arochlor 1232								<.2	
Arochlor 1242								<.2	
Arochlor 1248								<.2	
Arochlor 1254								<.1	
Arochlor 1260								<.1	
Arsenic, total	<4.0	<4.0	6.2	4.1	9.9	<4.0	<4.0	<4.0	4.9
Azobenzene								<8	
Barium, total	173	175	224	195	228	223	248	255	261
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	1.0	<1.0
Benzo(a)anthracene								<8	
Benzo(a)pyrene								<8	
Benzo(b)fluoranthene								<8	
Benzo(g,h,i)perylene								<8	
Benzo(k)fluoranthene								<8	
Benzyl alcohol								<8	
Beryllium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc								<.05	
Bis (2-chloroethoxy) methane								<8	
Bis(2-chloroethyl) ether								<8	
Bis(2-chloroisopropyl) ether								<8	
Bis(2-ethylhexyl) phthalate								<6	
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate								<8	
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane								<.1	
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate								<8	
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	1.2	<1.0
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroprene								<1	
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene								<8	
Cis-1,2-dichloroethylene	<1.0	<1.0	<1.0	1.7	2.1	2.6	4.7	3.5	2.2
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	.9	1.5	3.1	2.0	4.9	1.1	1.9	1.5	1.2
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.8	5.4
Cyanide, total								<.005	
Delta-bhc								<.05	
Diallate								<8	
Dibenzo(a,h)anthracene								<8	
Dibenzofuran								<8	
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane								<1	
Dieldrin								<.05	
Diethyl phthalate								<8	
Dimethoate								<.4	
Dimethylphthalate								<8	
Di-n-butyl phthalate								<8	
Di-n-octyl phthalate								<8	
Dinoseb								<.5	
Diphenylamine								<8	
Disulfoton								<.4	
Endosulfan i								<.05	
Endosulfan ii								<.05	
Endosulfan sulfate								<.05	
Endrin								<.05	
Endrin aldehyde								<.05	
Ethyl methacrylate								<10	
Ethyl methanesulfonate								<8	
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur								<.4	
Fluoranthene								<8	
Fluorene								<8	
Gamma-bhc (lindane)								<.05	
Heptachlor								<.05	
Heptachlor epoxide								<.05	
Hexachlorobenzene								<.05	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	9/7/2023	3/18/2024
Antimony, total	<2	<2
Arochlor 1016		
Arochlor 1221		
Arochlor 1232		
Arochlor 1242		
Arochlor 1248		
Arochlor 1254		
Arochlor 1260		
Arsenic, total	<4.0	8.0
Azobenzene		
Barium, total	231	250
Benzene	<1.0	<1.0
Benzo(a)anthracene		
Benzo(a)pyrene		
Benzo(b)fluoranthene		
Benzo(g,h,i)perylene		
Benzo(k)fluoranthene		
Benzyl alcohol		
Beryllium, total	<4	<4
Beta-bhc		
Bis (2-chloroethoxy) methane		
Bis(2-chloroethyl) ether		
Bis(2-chloroisopropyl) ether		
Bis(2-ethylhexyl) phthalate		
Bromochloromethane	<1	<1
Bromodichloromethane	<1	<1
Bromoform	<1	<1
Bromomethane	<1	<1
Butyl benzyl phthalate		
Cadmium, total	<.8	<.8
Carbon disulfide	<1	<1
Carbon tetrachloride	<1	<1
Chlordane		
Chlorobenzene	<1	<1
Chlorobenzilate		
Chloroethane	<1.0	<1.0
Chloroform	<1	<1
Chloromethane	<1.0	<1.0
Chloroprene		
Chromium, total	<8.0	<8.0
Chrysene		
Cis-1,2-dichloroethylene	1.1	1.4
Cis-1,3-dichloropropene	<1	<1
Cobalt, total	1.1	1.3
Copper, total	<4.0	4.6
Cyanide, total		
Delta-bhc		
Diallate		
Dibenzo(a,h)anthracene		
Dibenzofuran		
Dibromochloromethane	<1	<1
Dibromomethane	<1	<1
Dichlorodifluoromethane		
Dieldrin		
Diethyl phthalate		
Dimethoate		
Dimethylphthalate		
Di-n-butyl phthalate		
Di-n-octyl phthalate		
Dinoseb		
Diphenylamine		
Disulfoton		
Endosulfan i		
Endosulfan ii		
Endosulfan sulfate		
Endrin		
Endrin aldehyde		
Ethyl methacrylate		
Ethyl methanesulfonate		
Ethylbenzene	<1	<1
Famphur		
Fluoranthene		
Fluorene		
Gamma-bhc (lindane)		
Heptachlor		
Heptachlor epoxide		
Hexachlorobenzene		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	Units	9/17/2014	4/29/2015	10/6/2015	4/23/2016	9/1/2016	3/22/2017	10/13/2017	3/9/2018	9/6/2018
Hexachlorobutadiene	ug/L						<8			
Hexachlorocyclopentadiene	ug/L						<8			
Hexachloroethane	ug/L						<8			
Hexachloropropene	ug/L						<8			
Indeno(1,2,3-cd)pyrene	ug/L						<8			
Isobutanol	mg/L						<1			
Isodrin	ug/L						<8			
Isophorone	ug/L						<8			
Isosafrole	ug/L						<8			
Kepone	ug/L						<8			
Lead, total	ug/L	<4.0	5.4	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Mercury, total	ug/L						<5			
Methacrylonitrile	ug/L						<1			
Methapyrilene	ug/L						<8			
Methoxychlor	ug/L						<.05			
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate	ug/L						<1			
Methyl methanesulfonate	ug/L						<8			
Methyl parathion	ug/L						<.4			
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L						<8			
Nickel, total	ug/L	7.9	20.0	8.7	8.9	8.1	8.8	47.8	8.2	6.2
Nitrobenzene	ug/L						<8			
N-nitrosodiethylamine	ug/L						<8			
N-nitrosodimethylamine	ug/L						<8			
N-nitrosodi-n-butylamine	ug/L						<8			
N-nitroso-di-n-propylamine	ug/L						<8			
N-nitrosodiphenylamine	ug/L						<8			
N-nitrosomethylethylamine	ug/L						<8			
N-nitrosopiperidine	ug/L						<8			
N-nitrosopyrrolidine	ug/L						<8			
O,o,o-triethyl phosphorothioate	ug/L						<.4			
O-toluidine	ug/L						<8			
Parathion	ug/L						<.4			
P-dimethylaminoazobenzene	ug/L						<8			
Pentachlorobenzene	ug/L						<8			
Pentachloronitrobenzene (pcnb)	ug/L						<8			
Pentachlorophenol	ug/L						<8			
Phenacetin	ug/L						<8			
Phenanthrene	ug/L						<8			
Phenol	ug/L						<8			
Phorate	ug/L						<.4			
Pronamide	ug/L						<8			
Propionitrile	ug/L						<10			
Pyrene	ug/L						<8			
Safrole	ug/L						<8			
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<8
Solids, total suspended	mg/L	74	429	21	17	46	70	570		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L						<.1			
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Thionazin	ug/L						<.4			
Tin, total	ug/L						<20			
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L						<.2			
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20.0	20.9	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.2
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	11.1	37.7	<8.0	<20.0	<8.0	<8.0	9.0	<8.0	10.4

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022	3/24/2023
Hexachlorobutadiene								<8	
Hexachlorocyclopentadiene								<8	
Hexachloroethane								<8	
Hexachloropropene								<8	
Indeno(1,2,3-cd)pyrene								<8	
Isobutanol								<1	
Isodrin								<8	
Isophorone								<8	
Isosafrole								<8	
Kepone								<8	
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Mercury, total								<.5	
Methacrylonitrile								<1	
Methapyrilene								<8	
Methoxychlor								<.05	
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<2	<1
Methyl methacrylate								<1	
Methyl methanesulfonate								<8	
Methyl parathion								<.4	
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene								<8	
Nickel, total	5.6	6.3	9.7	7.8	27.3	5.8	8.3	9.1	6.5
Nitrobenzene								<8	
N-nitrosodiethylamine								<8	
N-nitrosodimethylamine								<8	
N-nitrosodi-n-butylamine								<8	
N-nitroso-di-n-propylamine								<8	
N-nitrosodiphenylamine								<8	
N-nitrosomethylethylamine								<8	
N-nitrosopiperidine								<8	
N-nitrosopyrrolidine								<8	
O,o,o-triethyl phosphorothioate								<.4	
O-toluidine								<8	
Parathion								<.4	
P-dimethylaminoazobenzene								<8	
Pentachlorobenzene								<8	
Pentachloronitrobenzene (pcnb)								<8	
Pentachlorophenol								<8	
Phenacetin								<8	
Phenanthrene								<8	
Phenol								<8	
Phorate								<.4	
Pronamide								<8	
Propionitrile								<10	
Pyrene								<8	
Safrole								<8	
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total								.3	
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Thionazin								<.4	
Tin, total								<20	
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene								<.2	
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1.0	<1.0	<1.0	1.4	1.2	1.9	1.9	2.1	1.0
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	<8.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	9/7/2023	3/18/2024
Hexachlorobutadiene		
Hexachlorocyclopentadiene		
Hexachloroethane		
Hexachloropropene		
Indeno(1,2,3-cd)pyrene		
Isobutanol		
Isodrin		
Isophorone		
Isosafrole		
Kepone		
Lead, total	<4.0	<4.0
Mercury, total		
Methacrylonitrile		
Methapyrilene		
Methoxychlor		
Methyl iodide	<1	<1
Methyl methacrylate		
Methyl methanesulfonate		
Methyl parathion		
Methylene chloride	<5	<5
Naphthalene		
Nickel, total	6.2	7.3
Nitrobenzene		
N-nitrosodiethylamine		
N-nitrosodimethylamine		
N-nitrosodi-n-butylamine		
N-nitroso-di-n-propylamine		
N-nitrosodiphenylamine		
N-nitrosomethylethylamine		
N-nitrosopiperidine		
N-nitrosopyrrolidine		
O,o,o-triethyl phosphorothioate		
O-toluidine		
Parathion		
P-dimethylaminoazobenzene		
Pentachlorobenzene		
Pentachloronitrobenzene (pcnb)		
Pentachlorophenol		
Phenacetin		
Phenanthrene		
Phenol		
Phorate		
Pronamide		
Propionitrile		
Pyrene		
Safrole		
Selenium, total	<4	<4
Silver, total	<4	<4
Solids, total suspended		
Styrene	<1	<1
Sulfide, total		
Tetrachloroethylene	<1	<1
Thallium, total	<2	<2
Thionazin		
Tin, total		
Toluene	<1	<1
Toxaphene		
Trans-1,2-dichloroethylene	<1	<1
Trans-1,3-dichloropropene	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5
Trichloroethylene	<1	<1
Trichlorofluoromethane	<1	<1
Vanadium, total	<20.0	<20.0
Vinyl acetate	<5	<5
Vinyl chloride	1.2	<1.0
Xylenes, total	<2	<2
Zinc, total	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19R

Constituents	Units	11/25/2024	3/10/2025	9/8/2025
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1
1,1-dichloroethane	ug/L	3.0	2.7	2.7
1,1-dichloroethylene	ug/L	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<5	<5	<5
1,2-dibromoethane	ug/L	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1
2-butanone (mek)	ug/L	<10	<10	<10
2-hexanone (mbk)	ug/L	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5
Acetone	ug/L	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5
Antimony, total	ug/L	<2	<2	<1
Arsenic, total	ug/L	<4	<4	<2
Barium, total	ug/L	273	259	226
Benzene	ug/L	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<5
Bromochloromethane	ug/L	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1
Bromoform	ug/L	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	.2
Carbon disulfide	ug/L	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1
Chloroform	ug/L	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1
Chromium, total	ug/L	<8	<8	<1
Cis-1,2-dichloroethylene	ug/L	2.4	2.0	2.4
Cis-1,3-dichloropropene	ug/L	<1	<1	<1
Cobalt, total	ug/L	1.0	1.3	.7
Copper, total	ug/L	<4	<4	<5
Dibromochloromethane	ug/L	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1
Lead, total	ug/L	<4	<4	<1
Methyl iodide	ug/L	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5
Nickel, total	ug/L	7.4	9.7	5.7
Selenium, total	ug/L	<4	<4	<2
Silver, total	ug/L	<4	<4	<5
Styrene	ug/L	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1
Thallium, total	ug/L	<2.0	<2.0	<.5
Toluene	ug/L	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<2
Vinyl acetate	ug/L	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2
Zinc, total	ug/L	<20.0	<20.0	10.1

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-1D

Constituents	Units	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
(3+4)-methylphenol	ug/L	<8			<8	
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L	<1			<1	
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L	<8			<8	
1,2,4-trichlorobenzene	ug/L	<1			<1	
1,2-dibromo-3-chloropropane	ug/L	<1	<5	<5	<1	<5
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1
1,2-dinitrobenzene	ug/L	<8			<8	
1,3,5-trinitrobenzene	ug/L	<8			<8	
1,3-dichlorobenzene	ug/L	<1			<1	
1,3-dichloropropane	ug/L	<1			<1	
1,3-dinitrobenzene	ug/L	<8			<8	
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L	<8			<8	
1,4-phenylenediamine	ug/L	<8			<8	
1-naphthylamine	ug/L	<8			<8	
2,2-dichloropropane	ug/L	<1			<1	
2,3,4,6-tetrachlorophenol	ug/L	<8			<8	
2,4,5-t	ug/L	<.5			<.5	
2,4,5-tp (silvex)	ug/L	<.5			<.5	
2,4,5-trichlorophenol	ug/L	<8			<8	
2,4,6-trichlorophenol	ug/L	<8			<8	
2,4-d	ug/L	<2			<2	
2,4-dichlorophenol	ug/L	<8			<8	
2,4-dimethylphenol	ug/L	<8			<8	
2,4-dinitrophenol	ug/L	<8			<8	
2,4-dinitrotoluene	ug/L	<8			<8	
2,6-dichlorophenol	ug/L	<8			<8	
2,6-dinitrotoluene	ug/L	<8			<8	
2-acetylaminofluorene	ug/L	<8			<8	
2-butanone (mek)	ug/L	<5	<10	<10	<5	<10
2-chloronaphthalene	ug/L	<8			<8	
2-chlorophenol	ug/L	<8			<8	
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L	<8			<8	
2-methylphenol	ug/L	<8			<8	
2-naphthylamine	ug/L	<8			<8	
2-nitroaniline	ug/L	<8			<8	
2-nitrophenol	ug/L	<8			<8	
3,3'-dichlorobenzidine	ug/L	<8			<8	
3,3'-dimethylbenzidine	ug/L	<8			<8	
3-methylcholanthrene	ug/L	<8			<8	
3-nitroaniline	ug/L	<8			<8	
4,4'-ddd	ug/L	<.05			<.05	
4,4'-dde	ug/L	<.05			<.05	
4,4'-ddt	ug/L	<.05			<.05	
4,6-dinitro-2-methylphenol	ug/L	<8			<8	
4-aminobiphenyl	ug/L	<8			<8	
4-bromophenyl phenyl ether	ug/L	<8			<8	
4-chloro-3-methylphenol	ug/L	<8			<8	
4-chloroaniline	ug/L	<8			<8	
4-chlorophenyl phenyl ether	ug/L	<8			<8	
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5
4-nitroaniline	ug/L	<8			<8	
4-nitrophenol	ug/L	<8			<8	
5-nitro-o-toluidine	ug/L	<8			<8	
7,12-dimethylbenz(a)anthracene	ug/L	<8			<8	
Acenaphthene	ug/L	<8			<8	
Acenaphthylene	ug/L	<8			<8	
Acetone	ug/L	<10	<10	<10	<10	<10
Acetonitrile	ug/L	<10			<10	
Acetophenone	ug/L	<8			<8	
Acrolein	ug/L	<10			<10	
Acrylonitrile	ug/L	<5	<5	<5	<5	<5
Aldrin	ug/L	<.05			<.05	
Allyl chloride	ug/L	<1			<1	
Alpha-bhc	ug/L	<.05			<.05	
Anthracene	ug/L	<8			<8	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-1D

Constituents	Units	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
Antimony, total	ug/L	<2	<2	<2	<2	<1
Arochlor 1016	ug/L	<.2			<.2	
Arochlor 1221	ug/L	<.2			<.2	
Arochlor 1232	ug/L	<.2			<.2	
Arochlor 1242	ug/L	<.2			<.2	
Arochlor 1248	ug/L	<.2			<.2	
Arochlor 1254	ug/L	<.2			<.2	
Arochlor 1260	ug/L	<.2			<.2	
Arsenic, total	ug/L	<4	<4	<4	<4	<2
Azobenzene	ug/L	<8			<8	
Barium, total	ug/L	660	784	637	704	657
Benzene	ug/L	1.1	1.3	<1.0	<1.0	<1.0
Benzo(a)anthracene	ug/L	<8			<8	
Benzo(a)pyrene	ug/L	<8			<8	
Benzo(b)fluoranthene	ug/L	<8			<8	
Benzo(g,h,i)perylene	ug/L	<8			<8	
Benzo(k)fluoranthene	ug/L	<8			<8	
Benzyl alcohol	ug/L	<8			<8	
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<.5
Beta-bhc	ug/L	<.05			<.05	
Bis (2-chloroethoxy) methane	ug/L	<8			<8	
Bis(2-chloroethyl) ether	ug/L	<8			<8	
Bis(2-chloroisopropyl) ether	ug/L	<8			<8	
Bis(2-ethylhexyl) phthalate	ug/L	<6			<6	
Bromochloromethane	ug/L	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1
Butyl benzyl phthalate	ug/L	<8			<8	
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.2
Carbon disulfide	ug/L	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1
Chlordane	ug/L	<.1			<.1	
Chlorobenzene	ug/L	1.0	1.5	<1.0	<1.0	<1.0
Chlorobenzilate	ug/L	<8			<8	
Chloroethane	ug/L	<1.0	1.1	<1.0	<1.0	<1.0
Chloroform	ug/L	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1
Chloroprene	ug/L	<1			<1	
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	1.2
Chrysene	ug/L	<8			<8	
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1
Cobalt, total	ug/L	11.9	14.0	2.4	8.7	5.7
Copper, total	ug/L	<4	<4	<4	<4	<5
Cyanide, total	mg/L	<.005			<.010	
Delta-bhc	ug/L	<.05			<.05	
Diallate	ug/L	<8			<8	
Dibenzo(a,h)anthracene	ug/L	<8			<8	
Dibenzofuran	ug/L	<8			<8	
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L	<1			<1	
Dieldrin	ug/L	<.05			<.05	
Diethyl phthalate	ug/L	<8			<8	
Dimethoate	ug/L	<.4			<.4	
Dimethylphthalate	ug/L	<8			<8	
Di-n-butyl phthalate	ug/L	<8			<8	
Di-n-octyl phthalate	ug/L	<8			<8	
Dinoseb	ug/L	<.5			<.5	
Diphenylamine	ug/L	<8			<8	
Disulfoton	ug/L	<.4			<.4	
Endosulfan i	ug/L	<.05			<.05	
Endosulfan ii	ug/L	<.05			<.05	
Endosulfan sulfate	ug/L	<.05			<.05	
Endrin	ug/L	<.05			<.05	
Endrin aldehyde	ug/L	<.05			<.05	
Ethyl methacrylate	ug/L	<10			<10	
Ethyl methanesulfonate	ug/L	<8			<8	
Ethylbenzene	ug/L	<1	<1	<1	<1	<1
Famphur	ug/L	<.4			<.4	
Fluoranthene	ug/L	<8			<8	
Fluorene	ug/L	<8			<8	
Gamma-bhc (lindane)	ug/L	<.05			<.05	
Heptachlor	ug/L	<.05			<.05	
Heptachlor epoxide	ug/L	<.05			<.05	
Hexachlorobenzene	ug/L	<.05			<.05	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-1D

Constituents	Units	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
Hexachlorobutadiene	ug/L	<8			<8	
Hexachlorocyclopentadiene	ug/L	<8			<8	
Hexachloroethane	ug/L	<8			<8	
Hexachloropropene	ug/L	<8			<8	
Indeno(1,2,3-cd)pyrene	ug/L	<8			<8	
Isobutanol	mg/L	<1			<1	
Isodrin	ug/L	<8			<8	
Isophorone	ug/L	<8			<8	
Isosafrole	ug/L	<8			<8	
Kepone	ug/L	<8			<8	
Lead, total	ug/L	<4	<4	<4	<4	<1
Mercury, total	ug/L	<.5			<.5	
Methacrylonitrile	ug/L	<1			<1	
Methapyrilene	ug/L	<8			<8	
Methoxychlor	ug/L	<.05			<.05	
Methyl iodide	ug/L	<2	<1	<1	<2	<1
Methyl methacrylate	ug/L	<1			<1	
Methyl methanesulfonate	ug/L	<8			<8	
Methyl parathion	ug/L	<.4			<.4	
Methylene chloride	ug/L	<5	<5	<5	<5	<5
Naphthalene	ug/L	<8			<8	
Nickel, total	ug/L	29.3	19.0	11.3	20.0	16.6
Nitrobenzene	ug/L	<8			<8	
N-nitrosodiethylamine	ug/L	<8			<8	
N-nitrosodimethylamine	ug/L	<8			<8	
N-nitrosodi-n-butylamine	ug/L	<8			<8	
N-nitroso-di-n-propylamine	ug/L	<8			<8	
N-nitrosodiphenylamine	ug/L	<8			<8	
N-nitrosomethylethylamine	ug/L	<8			<8	
N-nitrosopiperidine	ug/L	<8			<8	
N-nitrosopyrrolidine	ug/L	<8			<8	
O,o,o-triethyl phosphorothioate	ug/L	<.4			<.4	
O-toluidine	ug/L	<8			<8	
Parathion	ug/L	<.4			<.4	
P-dimethylaminoazobenzene	ug/L	<8			<8	
Pentachlorobenzene	ug/L	<8			<8	
Pentachloronitrobenzene (pcnb)	ug/L	<8			<8	
Pentachlorophenol	ug/L	<8			<8	
Phenacetin	ug/L	<8			<8	
Phenanthrene	ug/L	<8			<8	
Phenol	ug/L	<8			<8	
Phorate	ug/L	<.4			<.4	
Pronamide	ug/L	<8			<8	
Propionitrile	ug/L	<10			<10	
Pyrene	ug/L	<8			<8	
Safrole	ug/L	<8			<8	
Selenium, total	ug/L	<4	<4	<4	<4	<2
Silver, total	ug/L	<4	<4	<4	<4	<5
Styrene	ug/L	<1	<1	<1	<1	<1
Sulfide, total	mg/L	.15			<.10	
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1
Thallium, total	ug/L	<2.0	<2.0	<2.0	<2.0	<.5
Thionazin	ug/L	<.4			<.4	
Tin, total	ug/L	<20			<20	
Toluene	ug/L	<1	<1	<1	<1	<1
Toxaphene	ug/L	<.2			<.2	
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<2
Vinyl acetate	ug/L	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2
Zinc, total	ug/L	<20.0	<20.0	<20.0	<20.0	13.8

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	Units	9/18/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/21/2017	10/13/2017	3/9/2018	9/6/2018
(3+4)-methylphenol	ug/L					<8				
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L					<1				
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L					<8				
1,2,4-trichlorobenzene	ug/L					<1				
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene	ug/L					<8				
1,3,5-trinitrobenzene	ug/L					<8				
1,3-dichlorobenzene	ug/L					<1				
1,3-dichloropropane	ug/L					<1				
1,3-dinitrobenzene	ug/L					<8				
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L					<8				
1,4-phenylenediamine	ug/L					<8				
1-naphthylamine	ug/L					<8				
2,2-dichloropropane	ug/L					<1				
2,3,4,6-tetrachlorophenol	ug/L					<8				
2,4,5-t	ug/L					<5				
2,4,5-tp (silvex)	ug/L					<5				
2,4,5-trichlorophenol	ug/L					<8				
2,4,6-trichlorophenol	ug/L					<8				
2,4-d	ug/L					<2				
2,4-dichlorophenol	ug/L					<8				
2,4-dimethylphenol	ug/L					<8				
2,4-dinitrophenol	ug/L					<8				
2,4-dinitrotoluene	ug/L					<8				
2,6-dichlorophenol	ug/L					<8				
2,6-dinitrotoluene	ug/L					<8				
2-acetylaminofluorene	ug/L					<8				
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene	ug/L					<8				
2-chlorophenol	ug/L					<8				
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L					<8				
2-methylphenol	ug/L					<8				
2-naphthylamine	ug/L					<8				
2-nitroaniline	ug/L					<8				
2-nitrophenol	ug/L					<8				
3,3'-dichlorobenzidine	ug/L					<8				
3,3'-dimethylbenzidine	ug/L					<8				
3-methylcholanthrene	ug/L					<8				
3-nitroaniline	ug/L					<8				
4,4'-ddd	ug/L					<.05				
4,4'-dde	ug/L					<.05				
4,4'-ddt	ug/L					<.05				
4,6-dinitro-2-methylphenol	ug/L					<8				
4-aminobiphenyl	ug/L					<8				
4-bromophenyl phenyl ether	ug/L					<8				
4-chloro-3-methylphenol	ug/L					<8				
4-chloroaniline	ug/L					<8				
4-chlorophenyl phenyl ether	ug/L					<8				
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	ug/L					<8				
4-nitrophenol	ug/L					<8				
5-nitro-o-toluidine	ug/L					<8				
7,12-dimethylbenz(a)anthracene	ug/L					<8				
Acenaphthene	ug/L					<8				
Acenaphthylene	ug/L					<8				
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile	ug/L					<10				
Acetophenone	ug/L					<8				
Acrolein	ug/L					<10				
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin	ug/L					<.05				
Allyl chloride	ug/L					<1				
Alpha-bhc	ug/L					<.05				
Anthracene	ug/L					<8				

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022	3/24/2023
(3+4)-methylphenol						<8			
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene						<1			
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene						<8			
1,2,4-trichlorobenzene						<1			
1,2-dibromo-3-chloropropane	<1	<1	<5	<5	<5	<1	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene						<8			
1,3,5-trinitrobenzene						<8			
1,3-dichlorobenzene						<1			
1,3-dichloropropane						<1			
1,3-dinitrobenzene						<8			
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone						<8			
1,4-phenylenediamine						<8			
1-naphthylamine						<8			
2,2-dichloropropane						<1			
2,3,4,6-tetrachlorophenol						<8			
2,4,5-t						<5			
2,4,5-tp (silvex)						<5			
2,4,5-trichlorophenol						<8			
2,4,6-trichlorophenol						<8			
2,4-d						<2			
2,4-dichlorophenol						<8			
2,4-dimethylphenol						<8			
2,4-dinitrophenol						<8			
2,4-dinitrotoluene						<8			
2,6-dichlorophenol						<8			
2,6-dinitrotoluene						<8			
2-acetylaminofluorene						<8			
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<10	<10	<10
2-chloronaphthalene						<8			
2-chlorophenol						<8			
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene						<8			
2-methylphenol						<8			
2-naphthylamine						<8			
2-nitroaniline						<8			
2-nitrophenol						<8			
3,3'-dichlorobenzidine						<8			
3,3'-dimethylbenzidine						<8			
3-methylcholanthrene						<8			
3-nitroaniline						<8			
4,4'-ddd						<.05			
4,4'-dde						<.05			
4,4'-ddt						<.05			
4,6-dinitro-2-methylphenol						<8			
4-aminobiphenyl						<8			
4-bromophenyl phenyl ether						<8			
4-chloro-3-methylphenol						<8			
4-chloroaniline						<8			
4-chlorophenyl phenyl ether						<8			
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline						<8			
4-nitrophenol						<8			
5-nitro-o-toluidine						<8			
7,12-dimethylbenz(a)anthracene						<8			
Acenaphthene						<8			
Acenaphthylene						<8			
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	57.2	<10.0	<10.0
Acetonitrile						<10			
Acetophenone						<8			
Acrolein						<10			
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin						<.05			
Allyl chloride						<1			
Alpha-bhc						<.05			
Anthracene						<8			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
(3+4)-methylphenol					
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1
1,1-dichloropropene					
1,2,3-trichloropropane	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene					
1,2,4-trichlorobenzene					
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1
1,2-dinitrobenzene					
1,3,5-trinitrobenzene					
1,3-dichlorobenzene					
1,3-dichloropropane					
1,3-dinitrobenzene					
1,4-dichlorobenzene	<1	<1	<1	<1	<1
1,4-naphthoquinone					
1,4-phenylenediamine					
1-naphthylamine					
2,2-dichloropropane					
2,3,4,6-tetrachlorophenol					
2,4,5-t					
2,4,5-tp (silvex)					
2,4,5-trichlorophenol					
2,4,6-trichlorophenol					
2,4-d					
2,4-dichlorophenol					
2,4-dimethylphenol					
2,4-dinitrophenol					
2,4-dinitrotoluene					
2,6-dichlorophenol					
2,6-dinitrotoluene					
2-acetylaminofluorene					
2-butanone (mek)	<10	<10	<10	<10	<10
2-chloronaphthalene					
2-chlorophenol					
2-hexanone (mbk)	<5	<5	<5	<5	<5
2-methylnaphthalene					
2-methylphenol					
2-naphthylamine					
2-nitroaniline					
2-nitrophenol					
3,3'-dichlorobenzidine					
3,3'-dimethylbenzidine					
3-methylcholanthrene					
3-nitroaniline					
4,4'-ddd					
4,4'-dde					
4,4'-ddt					
4,6-dinitro-2-methylphenol					
4-aminobiphenyl					
4-bromophenyl phenyl ether					
4-chloro-3-methylphenol					
4-chloroaniline					
4-chlorophenyl phenyl ether					
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5
4-nitroaniline					
4-nitrophenol					
5-nitro-o-toluidine					
7,12-dimethylbenz(a)anthracene					
Acenaphthene					
Acenaphthylene					
Acetone	<10.0	<10.0	<10.0		<10.0
Acetonitrile					
Acetophenone					
Acrolein					
Acrylonitrile	<5	<5	<5	<5	<5
Aldrin					
Allyl chloride					
Alpha-bhc					
Anthracene					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	Units	9/18/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/21/2017	10/13/2017	3/9/2018	9/6/2018
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L					<1				
Arochlor 1221	ug/L					<2				
Arochlor 1232	ug/L					<2				
Arochlor 1242	ug/L					<2				
Arochlor 1248	ug/L					<2				
Arochlor 1254	ug/L					<1				
Arochlor 1260	ug/L					<1				
Arsenic, total	ug/L	75.2	45.5	81.7	81.5	77.1	79.1	96.8	83.4	99.6
Azobenzene	ug/L					<8				
Barium, total	ug/L	2370	2390	2490	2260	2140	2140	2340	2010	2360
Benzene	ug/L	1.9	1.9	2.0	1.5	1.8	2.6	2.0	2.9	3.6
Benzo(a)anthracene	ug/L					<8				
Benzo(a)pyrene	ug/L					<8				
Benzo(b)fluoranthene	ug/L					<8				
Benzo(g,h,i)perylene	ug/L					<8				
Benzo(k)fluoranthene	ug/L					<8				
Benzyl alcohol	ug/L					<8				
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc	ug/L					<.05				
Bis (2-chloroethoxy) methane	ug/L					<8				
Bis(2-chloroethyl) ether	ug/L					<8				
Bis(2-chloroisopropyl) ether	ug/L					<8				
Bis(2-ethylhexyl) phthalate	ug/L					<8				
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	ug/L					<8				
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L					<1				
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2
Chlorobenzilate	ug/L					<8				
Chloroethane	ug/L	2.1	2.9	2.3	1.6	<1.0	2.4	2.3	2.0	2.8
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene	ug/L					<1				
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene	ug/L					<8				
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	21.0	15.4	16.7	14.4	12.3	13.4	14.5	12.2	12.8
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total	mg/L					<.005				
Delta-bhc	ug/L					<.05				
Diallate	ug/L					<8				
Dibenzo(a,h)anthracene	ug/L					<8				
Dibenzofuran	ug/L					<8				
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L					<1				
Dieldrin	ug/L					<.05				
Diethyl phthalate	ug/L					<8				
Dimethoate	ug/L					<.4				
Dimethylphthalate	ug/L					<8				
Di-n-butyl phthalate	ug/L					<8				
Di-n-octyl phthalate	ug/L					<8				
Dinoseb	ug/L					<.5				
Diphenylamine	ug/L					<8				
Disulfoton	ug/L					<.4				
Endosulfan i	ug/L					<.05				
Endosulfan ii	ug/L					<.05				
Endosulfan sulfate	ug/L					<.05				
Endrin	ug/L					<.05				
Endrin aldehyde	ug/L					<.05				
Ethyl methacrylate	ug/L					<10				
Ethyl methanesulfonate	ug/L					<8				
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L					<.4				
Fluoranthene	ug/L					<8				
Fluorene	ug/L					<8				
Gamma-bhc (lindane)	ug/L					<.05				
Heptachlor	ug/L					<.05				
Heptachlor epoxide	ug/L					<.05				
Hexachlorobenzene	ug/L					<.05				

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022	3/24/2023
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016						<.1			
Arochlor 1221						<.2			
Arochlor 1232						<.2			
Arochlor 1242						<.2			
Arochlor 1248						<.2			
Arochlor 1254						<.1			
Arochlor 1260						<.1			
Arsenic, total	78.4	83.6	65.2	87.1	106.0	87.8	127.0	133.0	94.6
Azobenzene						<8			
Barium, total	2100	2350	2300	1970	1970	2160	1890	2020	2000
Benzene	2.5	3.1	2.8	<1.0	3.3	3.0	3.8	2.6	2.6
Benzo(a)anthracene						<8			
Benzo(a)pyrene						<8			
Benzo(b)fluoranthene						<8			
Benzo(g,h,i)perylene						<8			
Benzo(k)fluoranthene						<8			
Benzyl alcohol						<8			
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc						<.05			
Bis (2-chloroethoxy) methane						<8			
Bis(2-chloroethyl) ether						<8			
Bis(2-chloroisopropyl) ether						<8			
Bis(2-ethylhexyl) phthalate						8	7	<6	
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate						<8			
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane						<.1			
Chlorobenzene	<1.0	<1.0	1.0	1.2	1.1	1.1	1.1	1.1	<1.0
Chlorobenzilate						<8			
Chloroethane	1.6	2.0	1.6	1.6	1.6	1.8	1.6	1.7	<1.0
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene						<1			
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene						<8			
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	12.3	10.7	10.1	9.9	12.0	10.6	10.4	11.1	11.1
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total						<.005			
Delta-bhc						<.05			
Diallate						<8			
Dibenzo(a,h)anthracene						<8			
Dibenzofuran						<8			
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane						<1			
Dieldrin						<.05			
Diethyl phthalate						<8			
Dimethoate						<.4			
Dimethylphthalate						<8			
Di-n-butyl phthalate						<8			
Di-n-octyl phthalate						<8			
Dinoseb						<.5			
Diphenylamine						<8			
Disulfoton						<.4			
Endosulfan i						<.05			
Endosulfan ii						<.05			
Endosulfan sulfate						<.05			
Endrin						<.05			
Endrin aldehyde						<.05			
Ethyl methacrylate						<10			
Ethyl methanesulfonate						<8			
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur						<.4			
Fluoranthene						<8			
Fluorene						<8			
Gamma-bhc (lindane)						<.05			
Heptachlor						<.05			
Heptachlor epoxide						<.05			
Hexachlorobenzene						<.05			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
Antimony, total	<2	<2	<2	<2	<1
Arochlor 1016					
Arochlor 1221					
Arochlor 1232					
Arochlor 1242					
Arochlor 1248					
Arochlor 1254					
Arochlor 1260					
Arsenic, total	83.4	112.0	44.1	54.9	59.7
Azobenzene					
Barium, total	1810	2110	1950	1640	1860
Benzene	2.0	2.2	2.1	1.1	1.2
Benzo(a)anthracene					
Benzo(a)pyrene					
Benzo(b)fluoranthene					
Benzo(g,h,i)perylene					
Benzo(k)fluoranthene					
Benzyl alcohol					
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<.5
Beta-bhc					
Bis (2-chloroethoxy) methane					
Bis(2-chloroethyl) ether					
Bis(2-chloroisopropyl) ether					
Bis(2-ethylhexyl) phthalate					
Bromochloromethane	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1
Butyl benzyl phthalate					
Cadmium, total	<.8	<.8	<.8	1.4	<.2
Carbon disulfide	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1
Chlordane					
Chlorobenzene	1.0	1.2	1.9	<1.0	1.0
Chlorobenzilate					
Chloroethane	1.5	1.2	<1.0	<1.0	<1.0
Chloroform	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1
Chloroprene					
Chromium, total	<8	<8	<8	<8	<1
Chrysene					
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1
Cobalt, total	9.1	9.7	6.4	7.2	3.0
Copper, total	<4.0	<4.0	<4.0	26.4	<5.0
Cyanide, total					
Delta-bhc					
Diallate					
Dibenzo(a,h)anthracene					
Dibenzofuran					
Dibromochloromethane	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1
Dichlorodifluoromethane					
Dieldrin					
Diethyl phthalate					
Dimethoate					
Dimethylphthalate					
Di-n-butyl phthalate					
Di-n-octyl phthalate					
Dinoseb					
Diphenylamine					
Disulfoton					
Endosulfan i					
Endosulfan ii					
Endosulfan sulfate					
Endrin					
Endrin aldehyde					
Ethyl methacrylate					
Ethyl methanesulfonate					
Ethylbenzene	<1	<1	<1	<1	<1
Famphur					
Fluoranthene					
Fluorene					
Gamma-bhc (lindane)					
Heptachlor					
Heptachlor epoxide					
Hexachlorobenzene					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	Units	9/18/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/21/2017	10/13/2017	3/9/2018	9/6/2018
Hexachlorobutadiene	ug/L					<8				
Hexachlorocyclopentadiene	ug/L					<8				
Hexachloroethane	ug/L					<8				
Hexachloropropene	ug/L					<8				
Indeno(1,2,3-cd)pyrene	ug/L					<8				
Isobutanol	mg/L					<1				
Isodrin	ug/L					<8				
Isophorone	ug/L					<8				
Isosafrole	ug/L					<8				
Kepone	ug/L					<8				
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total	ug/L					<.5				
Methacrylonitrile	ug/L					<1				
Methapyrilene	ug/L					<8				
Methoxychlor	ug/L					<.05				
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate	ug/L					<1				
Methyl methanesulfonate	ug/L					<8				
Methyl parathion	ug/L					<.4				
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L					<8				
Nickel, total	ug/L	42.2	28.4	41.6	36.5	34.2	37.6	42.7	37.0	39.0
Nitrobenzene	ug/L					<8				
N-nitrosodiethylamine	ug/L					<8				
N-nitrosodimethylamine	ug/L					<8				
N-nitrosodi-n-butylamine	ug/L					<8				
N-nitroso-di-n-propylamine	ug/L					<8				
N-nitrosodiphenylamine	ug/L					<8				
N-nitrosomethylethylamine	ug/L					<8				
N-nitrosopiperidine	ug/L					<8				
N-nitrosopyrrolidine	ug/L					<8				
O,o,o-triethyl phosphorothioate	ug/L					<.4				
O-toluidine	ug/L					<8				
Parathion	ug/L					<.4				
P-dimethylaminoazobenzene	ug/L					<8				
Pentachlorobenzene	ug/L					<8				
Pentachloronitrobenzene (pcnb)	ug/L					<8				
Pentachlorophenol	ug/L					<8				
Phenacetin	ug/L					<8				
Phenanthrene	ug/L					<8				
Phenol	ug/L					<8				
Phorate	ug/L					<.4				
Pronamide	ug/L					<8				
Propionitrile	ug/L					<10				
Pyrene	ug/L					<8				
Safrole	ug/L					<8				
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<8
Solids, total suspended	mg/L	375	177	156	165	108	1270	1200		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L					<.10				
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Thionazin	ug/L					<.4				
Tin, total	ug/L					<20				
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L					<.2				
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	10.3	<20.0	8.0	<20.0	<8.0	<8.0	<8.0	8.2	84.5

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022	3/24/2023
Hexachlorobutadiene						<8			
Hexachlorocyclopentadiene						<8			
Hexachloroethane						<8			
Hexachloropropene						<8			
Indeno(1,2,3-cd)pyrene						<8			
Isobutanol						<1			
Isodrin						<8			
Isophorone						<8			
Isosafrole						<8			
Kepone						<8			
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total						<.5			
Methacrylonitrile						<1			
Methapyrilene						<8			
Methoxychlor						<.05			
Methyl iodide	<1	<1	<1	<1	<1	<2	<1	<1	<1
Methyl methacrylate						<1			
Methyl methanesulfonate						<8			
Methyl parathion						<.4			
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene						<8			
Nickel, total	37.5	33.2	30.9	33.4	35.0	35.0	34.5	38.2	31.9
Nitrobenzene						<8			
N-nitrosodiethylamine						<8			
N-nitrosodimethylamine						<8			
N-nitrosodi-n-butylamine						<8			
N-nitroso-di-n-propylamine						<8			
N-nitrosodiphenylamine						<8			
N-nitrosomethylethylamine						<8			
N-nitrosopiperidine						<8			
N-nitrosopyrrolidine						<8			
O,o,o-triethyl phosphorothioate						<.4			
O-toluidine						<8			
Parathion						<.4			
P-dimethylaminoazobenzene						<8			
Pentachlorobenzene						<8			
Pentachloronitrobenzene (pcnb)						<8			
Pentachlorophenol						<8			
Phenacetin						<8			
Phenanthrene						<8			
Phenol						<8			
Phorate						<.4			
Pronamide						<8			
Propionitrile						<10			
Pyrene						<8			
Safrole						<8			
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total						.14			
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin						<.4			
Tin, total						<20			
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene						<.2			
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	33.8	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
Hexachlorobutadiene					
Hexachlorocyclopentadiene					
Hexachloroethane					
Hexachloropropene					
Indeno(1,2,3-cd)pyrene					
Isobutanol					
Isodrin					
Isophorone					
Isosafrole					
Kepone					
Lead, total	<4	<4	<4	<4	<1
Mercury, total					
Methacrylonitrile					
Methapyrilene					
Methoxychlor					
Methyl iodide	<1	<1	<1	<1	<1
Methyl methacrylate					
Methyl methanesulfonate					
Methyl parathion					
Methylene chloride	<5	<5	<5	<5	<5
Naphthalene					
Nickel, total	33.7	31.4	18.0	20.9	10.4
Nitrobenzene					
N-nitrosodiethylamine					
N-nitrosodimethylamine					
N-nitrosodi-n-butylamine					
N-nitroso-di-n-propylamine					
N-nitrosodiphenylamine					
N-nitrosomethylethylamine					
N-nitrosopiperidine					
N-nitrosopyrrolidine					
O,o,o-triethyl phosphorothioate					
O-toluidine					
Parathion					
P-dimethylaminoazobenzene					
Pentachlorobenzene					
Pentachloronitrobenzene (pcnb)					
Pentachlorophenol					
Phenacetin					
Phenanthrene					
Phenol					
Phorate					
Pronamide					
Propionitrile					
Pyrene					
Safrole					
Selenium, total	<4	<4	<4	<4	<2
Silver, total	<4	<4	<4	<4	<5
Solids, total suspended					
Styrene	<1	<1	<1	<1	<1
Sulfide, total					
Tetrachloroethylene	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<.5
Thionazin					
Tin, total					
Toluene	<1	<1	<1	<1	<1
Toxaphene					
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	44.9	7.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-3

Constituents	Units	9/17/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/21/2017	10/13/2017	1/12/2018
(3+4)-methylphenol	ug/L					<8			
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1-dichloroethane	ug/L	1.3	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1-dichloropropene	ug/L					<1			
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2,4,5-tetrachlorobenzene	ug/L					<8			
1,2,4-trichlorobenzene	ug/L					<1			
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,2-dinitrobenzene	ug/L					<8			
1,3,5-trinitrobenzene	ug/L					<8			
1,3-dichlorobenzene	ug/L					<1			
1,3-dichloropropane	ug/L					<1			
1,3-dinitrobenzene	ug/L					<8			
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,4-naphthoquinone	ug/L					<8			
1,4-phenylenediamine	ug/L					<8			
1-naphthylamine	ug/L					<8			
2,2-dichloropropane	ug/L					<1			
2,3,4,6-tetrachlorophenol	ug/L					<8			
2,4,5-t	ug/L					<5			
2,4,5-tp (silvex)	ug/L					<5			
2,4,5-trichlorophenol	ug/L					<8			
2,4,6-trichlorophenol	ug/L					<8			
2,4-d	ug/L					<2			
2,4-dichlorophenol	ug/L					<8			
2,4-dimethylphenol	ug/L					<8			
2,4-dinitrophenol	ug/L					<8			
2,4-dinitrotoluene	ug/L					<8			
2,6-dichlorophenol	ug/L					<8			
2,6-dinitrotoluene	ug/L					<8			
2-acetylaminofluorene	ug/L					<8			
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	
2-chloronaphthalene	ug/L					<8			
2-chlorophenol	ug/L					<8			
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	
2-methylnaphthalene	ug/L					<8			
2-methylphenol	ug/L					<8			
2-naphthylamine	ug/L					<8			
2-nitroaniline	ug/L					<8			
2-nitrophenol	ug/L					<8			
3,3'-dichlorobenzidine	ug/L					<8			
3,3'-dimethylbenzidine	ug/L					<8			
3-methylcholanthrene	ug/L					<8			
3-nitroaniline	ug/L					<8			
4,4'-ddd	ug/L					<.05			
4,4'-dde	ug/L					<.05			
4,4'-ddt	ug/L					<.05			
4,6-dinitro-2-methylphenol	ug/L					<8			
4-aminobiphenyl	ug/L					<8			
4-bromophenyl phenyl ether	ug/L					<8			
4-chloro-3-methylphenol	ug/L					<8			
4-chloroaniline	ug/L					<8			
4-chlorophenyl phenyl ether	ug/L					<8			
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	
4-nitroaniline	ug/L					<8			
4-nitrophenol	ug/L					<8			
5-nitro-o-toluidine	ug/L					<8			
7,12-dimethylbenz(a)anthracene	ug/L					<8			
Acenaphthene	ug/L					<8			
Acenaphthylene	ug/L					<8			
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	15.4	
Acetonitrile	ug/L					<10			
Acetophenone	ug/L					<8			
Acrolein	ug/L					<10			
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	
Aldrin	ug/L					<.05			
Allyl chloride	ug/L					<1			
Alpha-bhc	ug/L					<.05			
Anthracene	ug/L					<8			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-3

Constituents	3/9/2018	9/6/2018	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022
(3+4)-methylphenol								<8		
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene								<1		
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene								<8		
1,2,4-trichlorobenzene								<1		
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<5	<5	<5	<1	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene								<8		
1,3,5-trinitrobenzene								<8		
1,3-dichlorobenzene								<1		
1,3-dichloropropane								<1		
1,3-dinitrobenzene								<8		
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone								<8		
1,4-phenylenediamine								<8		
1-naphthylamine								<8		
2,2-dichloropropane								<1		
2,3,4,6-tetrachlorophenol								<8		
2,4,5-t								<5		
2,4,5-tp (silvex)								<5		
2,4,5-trichlorophenol								<8		
2,4,6-trichlorophenol								<8		
2,4-d								<1		
2,4-dichlorophenol								<8		
2,4-dimethylphenol								<8		
2,4-dinitrophenol								<8		
2,4-dinitrotoluene								<8		
2,6-dichlorophenol								<8		
2,6-dinitrotoluene								<8		
2-acetylaminofluorene								<8		
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
2-chloronaphthalene								<8		
2-chlorophenol								<8		
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene								<8		
2-methylphenol								<8		
2-naphthylamine								<8		
2-nitroaniline								<8		
2-nitrophenol								<8		
3,3'-dichlorobenzidine								<8		
3,3'-dimethylbenzidine								<8		
3-methylcholanthrene								<8		
3-nitroaniline								<8		
4,4'-ddd								<05		
4,4'-dde								<05		
4,4'-ddt								<05		
4,6-dinitro-2-methylphenol								<8		
4-aminobiphenyl								<8		
4-bromophenyl phenyl ether								<8		
4-chloro-3-methylphenol								<8		
4-chloroaniline								<8		
4-chlorophenyl phenyl ether								<8		
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline								<8		
4-nitrophenol								<8		
5-nitro-o-toluidine								<8		
7,12-dimethylbenz(a)anthracene								<8		
Acenaphthene								<8		
Acenaphthylene								<8		
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile								<10		
Acetophenone								<8		
Acrolein								<10		
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin								<05		
Allyl chloride								<1		
Alpha-bhc								<05		
Anthracene								<8		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-3

Constituents	3/24/2023	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
(3+4)-methylphenol						
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1
1,1-dichloropropene						
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene						
1,2,4-trichlorobenzene						
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene						
1,3,5-trinitrobenzene						
1,3-dichlorobenzene						
1,3-dichloropropane						
1,3-dinitrobenzene						
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone						
1,4-phenylenediamine						
1-naphthylamine						
2,2-dichloropropane						
2,3,4,6-tetrachlorophenol						
2,4,5-t						
2,4,5-tp (silvex)						
2,4,5-trichlorophenol						
2,4,6-trichlorophenol						
2,4-d						
2,4-dichlorophenol						
2,4-dimethylphenol						
2,4-dinitrophenol						
2,4-dinitrotoluene						
2,6-dichlorophenol						
2,6-dinitrotoluene						
2-acetylaminofluorene						
2-butanone (mek)	<10	<10	<10	<10	<10	<10
2-chloronaphthalene						
2-chlorophenol						
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5
2-methylnaphthalene						
2-methylphenol						
2-naphthylamine						
2-nitroaniline						
2-nitrophenol						
3,3'-dichlorobenzidine						
3,3'-dimethylbenzidine						
3-methylcholanthrene						
3-nitroaniline						
4,4'-ddd						
4,4'-dde						
4,4'-ddt						
4,6-dinitro-2-methylphenol						
4-aminobiphenyl						
4-bromophenyl phenyl ether						
4-chloro-3-methylphenol						
4-chloroaniline						
4-chlorophenyl phenyl ether						
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5
4-nitroaniline						
4-nitrophenol						
5-nitro-o-toluidine						
7,12-dimethylbenz(a)anthracene						
Acenaphthene						
Acenaphthylene						
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile						
Acetophenone						
Acrolein						
Acrylonitrile	<5	<5	<5	<5	<5	<5
Aldrin						
Allyl chloride						
Alpha-bhc						
Anthracene						

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-3

Constituents	Units	9/17/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/21/2017	10/13/2017	1/12/2018
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	
Arochlor 1016	ug/L					<1			
Arochlor 1221	ug/L					<2			
Arochlor 1232	ug/L					<2			
Arochlor 1242	ug/L					<2			
Arochlor 1248	ug/L					<2			
Arochlor 1254	ug/L					<1			
Arochlor 1260	ug/L					<1			
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	
Azobenzene	ug/L					<8			
Barium, total	ug/L	727	624	437	318	376	284	288	
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Benzo(a)anthracene	ug/L					<8			
Benzo(a)pyrene	ug/L					<8			
Benzo(b)fluoranthene	ug/L					<8			
Benzo(g,h,i)perylene	ug/L					<8			
Benzo(k)fluoranthene	ug/L					<8			
Benzyl alcohol	ug/L					<8			
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Beta-bhc	ug/L					<.05			
Bis (2-chloroethoxy) methane	ug/L					<8			
Bis(2-chloroethyl) ether	ug/L					<8			
Bis(2-chloroisopropyl) ether	ug/L					<8			
Bis(2-ethylhexyl) phthalate	ug/L					<8			
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Butyl benzyl phthalate	ug/L					<8			
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	
Chlordane	ug/L					<1			
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Chlorobenzilate	ug/L					<8			
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Chloroprene	ug/L					<1			
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	
Chrysene	ug/L					<8			
Cis-1,2-dichloroethylene	ug/L	2.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Cobalt, total	ug/L	2.3	1.9	<.8	<.8	<.8	<.8	<.8	
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Cyanide, total	mg/L					<.005			
Delta-bhc	ug/L					<.05			
Diallate	ug/L					<8			
Dibenzo(a,h)anthracene	ug/L					<8			
Dibenzofuran	ug/L					<8			
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Dichlorodifluoromethane	ug/L	<1				<1			
Dieldrin	ug/L					<.05			
Diethyl phthalate	ug/L					<8			
Dimethoate	ug/L					<.4			
Dimethylphthalate	ug/L					<8			
Di-n-butyl phthalate	ug/L					<8			
Di-n-octyl phthalate	ug/L					<8			
Dinoseb	ug/L					<.5			
Diphenylamine	ug/L					<8			
Disulfoton	ug/L					<.4			
Endosulfan i	ug/L					<.05			
Endosulfan ii	ug/L					<.05			
Endosulfan sulfate	ug/L					<.05			
Endrin	ug/L					<.05			
Endrin aldehyde	ug/L					<.05			
Ethyl methacrylate	ug/L					<10			
Ethyl methanesulfonate	ug/L					<8			
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Famphur	ug/L					<.4			
Fluoranthene	ug/L					<8			
Fluorene	ug/L					<8			
Gamma-bhc (lindane)	ug/L					<.05			
Heptachlor	ug/L					<.05			
Heptachlor epoxide	ug/L					<.05			
Hexachlorobenzene	ug/L					<.05			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-3

Constituents	3/9/2018	9/6/2018	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016								<1		
Arochlor 1221								<2		
Arochlor 1232								<2		
Arochlor 1242								<2		
Arochlor 1248								<2		
Arochlor 1254								<1		
Arochlor 1260								<1		
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Azobenzene								<8		
Barium, total	337	337	619	375	343	358	318	352	363	388
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene								<8		
Benzo(a)pyrene								<8		
Benzo(b)fluoranthene								<8		
Benzo(g,h,i)perylene								<8		
Benzo(k)fluoranthene								<8		
Benzyl alcohol								<8		
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc								<.05		
Bis (2-chloroethoxy) methane								<8		
Bis(2-chloroethyl) ether								<8		
Bis(2-chloroisopropyl) ether								<8		
Bis(2-ethylhexyl) phthalate								8	<6	
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate								<8		
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane								<.1		
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate								<8		
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene								<1		
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene								<8		
Cis-1,2-dichloroethylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	<.8	<.4	<.4	<.4	<.4	<.4
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	4.4	<4.0	<4.0	12.0	<4.0
Cyanide, total								<.005		
Delta-bhc								<.05		
Diallate								<8		
Dibenzo(a,h)anthracene								<8		
Dibenzofuran								<8		
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane								<1		
Dieldrin								<.05		
Diethyl phthalate								<8		
Dimethoate								<.4		
Dimethylphthalate								<8		
Di-n-butyl phthalate								<8		
Di-n-octyl phthalate								<8		
Dinoseb								<.5		
Diphenylamine								<8		
Disulfoton								<.4		
Endosulfan i								<.05		
Endosulfan ii								<.05		
Endosulfan sulfate								<.05		
Endrin								<.05		
Endrin aldehyde								<.05		
Ethyl methacrylate								<10		
Ethyl methanesulfonate								<8		
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur								<.4		
Fluoranthene								<8		
Fluorene								<8		
Gamma-bhc (lindane)								<.05		
Heptachlor								<.05		
Heptachlor epoxide								<.05		
Hexachlorobenzene								<.05		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-3

Constituents	3/24/2023	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
Antimony, total	<2	<2	<2	<2	<2	<1
Arochlor 1016						
Arochlor 1221						
Arochlor 1232						
Arochlor 1242						
Arochlor 1248						
Arochlor 1254						
Arochlor 1260						
Arsenic, total	<4	<4	<4	<4	<4	<2
Azobenzene						
Barium, total	351	271	360	295	320	283
Benzene	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene						
Benzo(a)pyrene						
Benzo(b)fluoranthene						
Benzo(g,h,i)perylene						
Benzo(k)fluoranthene						
Benzyl alcohol						
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Beta-bhc						
Bis (2-chloroethoxy) methane						
Bis(2-chloroethyl) ether						
Bis(2-chloroisopropyl) ether						
Bis(2-ethylhexyl) phthalate						
Bromochloromethane	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate						
Cadmium, total	<.8	<.8	<.8	<.8	2.1	<.2
Carbon disulfide	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlordane						
Chlorobenzene	<1	<1	<1	<1	<1	<1
Chlorobenzilate						
Chloroethane	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1
Chloroprene						
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	3.7
Chrysene						
Cis-1,2-dichloroethylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.4	<.4	<.5
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
Cyanide, total						
Delta-bhc						
Diallate						
Dibenzo(a,h)anthracene						
Dibenzofuran						
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane						
Dieldrin						
Diethyl phthalate						
Dimethoate						
Dimethylphthalate						
Di-n-butyl phthalate						
Di-n-octyl phthalate						
Dinoseb						
Diphenylamine						
Disulfoton						
Endosulfan i						
Endosulfan ii						
Endosulfan sulfate						
Endrin						
Endrin aldehyde						
Ethyl methacrylate						
Ethyl methanesulfonate						
Ethylbenzene	<1	<1	<1	<1	<1	<1
Famphur						
Fluoranthene						
Fluorene						
Gamma-bhc (lindane)						
Heptachlor						
Heptachlor epoxide						
Hexachlorobenzene						

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-3

Constituents	Units	9/17/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/21/2017	10/13/2017	1/12/2018
Hexachlorobutadiene	ug/L					<8			
Hexachlorocyclopentadiene	ug/L					<8			
Hexachloroethane	ug/L					<8			
Hexachloropropene	ug/L					<8			
Indeno(1,2,3-cd)pyrene	ug/L					<8			
Isobutanol	mg/L					<1			
Isodrin	ug/L					<8			
Isophorone	ug/L					<8			
Isosafrole	ug/L					<8			
Kepone	ug/L					<8			
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	
Mercury, total	ug/L					<.5			
Methacrylonitrile	ug/L					<1			
Methapyrilene	ug/L					<8			
Methoxychlor	ug/L					<.05			
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	
Methyl methacrylate	ug/L					<1			
Methyl methanesulfonate	ug/L					<8			
Methyl parathion	ug/L					<.4			
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	
Naphthalene	ug/L					<8			
Nickel, total	ug/L	7.5	5.9	<4.0	<4.0	<4.0	<4.0	<4.0	
Nitrobenzene	ug/L					<8			
N-nitrosodiethylamine	ug/L					<8			
N-nitrosodimethylamine	ug/L					<8			
N-nitrosodi-n-butylamine	ug/L					<8			
N-nitroso-di-n-propylamine	ug/L					<8			
N-nitrosodiphenylamine	ug/L					<8			
N-nitrosomethylethylamine	ug/L					<8			
N-nitrosopiperidine	ug/L					<8			
N-nitrosopyrrolidine	ug/L					<8			
O,o,o-triethyl phosphorothioate	ug/L					<.4			
O-toluidine	ug/L					<8			
Parathion	ug/L					<.4			
P-dimethylaminoazobenzene	ug/L					<8			
Pentachlorobenzene	ug/L					<8			
Pentachloronitrobenzene (pcnb)	ug/L					<8			
Pentachlorophenol	ug/L					<8			
Phenacetin	ug/L					<8			
Phenanthrene	ug/L					<8			
Phenol	ug/L					<8			
Phorate	ug/L					<.4			
Pronamide	ug/L					<8			
Propionitrile	ug/L					<10			
Pyrene	ug/L					<8			
Safrole	ug/L					<8			
Selenium, total	ug/L	<4.0	5.8	<4.0	4.6	4.2	4.0	4.2	6.1
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	
Solids, total suspended	mg/L	108	34	46	43	4	781	334	
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Sulfide, total	mg/L					<1			
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Thionazin	ug/L					<.4			
Tin, total	ug/L					<20			
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Toxaphene	ug/L					<.2			
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	
Zinc, total	ug/L	13.2	11.7	8.8	<20.0	<8.0	<8.0	<8.0	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-3

Constituents	3/9/2018	9/6/2018	3/7/2019	9/26/2019	4/2/2020	9/17/2020	3/25/2021	9/16/2021	3/16/2022	9/1/2022
Hexachlorobutadiene								<8		
Hexachlorocyclopentadiene								<8		
Hexachloroethane								<8		
Hexachloropropene								<8		
Indeno(1,2,3-cd)pyrene								<8		
Isobutanol								<1		
Isodrin								<8		
Isophorone								<8		
Isosafrole								<8		
Kepone								<8		
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total								<5		
Methacrylonitrile								<1		
Methapyrilene								<8		
Methoxychlor								<.05		
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1
Methyl methacrylate								<1		
Methyl methanesulfonate								<8		
Methyl parathion								<4		
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene								<8		
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Nitrobenzene								<8		
N-nitrosodiethylamine								<8		
N-nitrosodimethylamine								<8		
N-nitrosodi-n-butylamine								<8		
N-nitroso-di-n-propylamine								<8		
N-nitrosodiphenylamine								<8		
N-nitrosomethylethylamine								<8		
N-nitrosopiperidine								<8		
N-nitrosopyrrolidine								<8		
O,o,o-triethyl phosphorothioate								<4		
O-toluidine								<8		
Parathion								<4		
P-dimethylaminoazobenzene								<8		
Pentachlorobenzene								<8		
Pentachloronitrobenzene (pcnb)								<8		
Pentachlorophenol								<8		
Phenacetin								<8		
Phenanthrene								<8		
Phenol								<8		
Phorate								<4		
Pronamide								<8		
Propionitrile								<10		
Pyrene								<8		
Safrole								<8		
Selenium, total	4.5	4.2	7.5	9.8	<4.0	5.0	<4.0	<4.0	<4.0	5.0
Silver, total	<4	<8	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended										
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total								<1		
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin								<4		
Tin, total								<20		
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene								<2		
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	14.7	<8.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-3

Constituents	3/24/2023	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
Hexachlorobutadiene						
Hexachlorocyclopentadiene						
Hexachloroethane						
Hexachloropropene						
Indeno(1,2,3-cd)pyrene						
Isobutanol						
Isodrin						
Isophorone						
Isosafrole						
Kepone						
Lead, total	<4	<4	<4	<4	<4	<1
Mercury, total						
Methacrylonitrile						
Methapyrilene						
Methoxychlor						
Methyl iodide	<1	<1	<1	<1	<1	<1
Methyl methacrylate						
Methyl methanesulfonate						
Methyl parathion						
Methylene chloride	<5	<5	<5	<5	<5	<5
Naphthalene						
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
Nitrobenzene						
N-nitrosodiethylamine						
N-nitrosodimethylamine						
N-nitrosodi-n-butylamine						
N-nitroso-di-n-propylamine						
N-nitrosodiphenylamine						
N-nitrosomethylethylamine						
N-nitrosopiperidine						
N-nitrosopyrrolidine						
O,o,o-triethyl phosphorothioate						
O-toluidine						
Parathion						
P-dimethylaminoazobenzene						
Pentachlorobenzene						
Pentachloronitrobenzene (pcnb)						
Pentachlorophenol						
Phenacetin						
Phenanthrene						
Phenol						
Phorate						
Pronamide						
Propionitrile						
Pyrene						
Safrole						
Selenium, total	4.8	<4.0	<4.0	<4.0	<4.0	3.8
Silver, total	<4	<4	<4	<4	<4	<5
Solids, total suspended						
Styrene	<1	<1	<1	<1	<1	<1
Sulfide, total						
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<5
Thionazin						
Tin, total						
Toluene	<1	<1	<1	<1	<1	<1
Toxaphene						
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	5.8

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-44

Constituents	Units	3/16/2022	11/13/2023	3/18/2024	11/25/2024	3/10/2025	9/8/2025
1,1,1,2-tetrachloroethane	ug/L		<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L		<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L		<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L		<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L		<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L		<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L		<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L		<5	<5	<5	<5	<5
1,2-dibromoethane	ug/L		<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L		<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L		<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L		<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L		<1	<1	<1	<1	<1
2-butanone (mek)	ug/L		<10	<10	<10	<10	<10
2-hexanone (mbk)	ug/L		<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L		<5	<5	<5	<5	<5
Acetone	ug/L		<10	<10	<10	<10	<10
Acrylonitrile	ug/L		<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<1
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<2
Barium, total	ug/L	124	137	154	134	123	126
Benzene	ug/L		<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Bromochloromethane	ug/L		<1	<1	<1	<1	<1
Bromodichloromethane	ug/L		<1	<1	<1	<1	<1
Bromoform	ug/L		<1	<1	<1	<1	<1
Bromomethane	ug/L		<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<2
Carbon disulfide	ug/L		<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L		<1	<1	<1	<1	<1
Chlorobenzene	ug/L		<1	<1	<1	<1	<1
Chloroethane	ug/L		<1	<1	<1	<1	<1
Chloroform	ug/L		<1	<1	<1	<1	<1
Chloromethane	ug/L		<1	<1	<1	<1	<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	1.8
Cis-1,2-dichloroethylene	ug/L		<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L		<1	<1	<1	<1	<1
Cobalt, total	ug/L	<.4	<.4	<.4	<.4	<.4	<.5
Copper, total	ug/L	4.3	<4.0	<4.0	<4.0	<4.0	<5.0
Dibromochloromethane	ug/L		<1	<1	<1	<1	<1
Dibromomethane	ug/L		<1	<1	<1	<1	<1
Ethylbenzene	ug/L		<1	<1	<1	<1	<1
Lead, total	ug/L	6.1	<4.0	<4.0	<4.0	<4.0	<1.0
Methyl iodide	ug/L		<1	<1	<1	<1	<1
Methylene chloride	ug/L		<5	<5	<5	<5	<5
Nickel, total	ug/L	<4	<4	<4	<4	<4	<5
Selenium, total	ug/L	<4	<4	<4	<4	<4	<2
Silver, total	ug/L	<4	<4	<4	<4	<4	<5
Styrene	ug/L		<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L		<1	<1	<1	<1	<1
Thallium, total	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<.5
Toluene	ug/L		<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L		<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L		<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L		<5	<5	<5	<5	<5
Trichloroethylene	ug/L		<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L		<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<2
Vinyl acetate	ug/L		<5	<5	<5	<5	<5
Vinyl chloride	ug/L		<1	<1	<1	<1	<1
Xylenes, total	ug/L		<2	<2	<2	<2	<2
Zinc, total	ug/L	69.2	<20.0	<20.0	<20.0	<20.0	5.8

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-53

Constituents	Units	8/1/2024	9/25/2024	3/10/2025	9/8/2025
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<5	<5	<5	<5
1,2-dibromoethane	ug/L	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1
2-butanone (mek)	ug/L	<10	<10	<10	<10
2-hexanone (mbk)	ug/L	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<1
Arsenic, total	ug/L	<4	<4	<4	<2
Barium, total	ug/L	46.2	58.9	79.3	89.5
Benzene	ug/L	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<5
Bromochloromethane	ug/L	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	<.2
Carbon disulfide	ug/L	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	1.4
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1
Cobalt, total	ug/L	<.4	<.4	<.4	<.5
Copper, total	ug/L	<4	<4	<4	<5
Dibromochloromethane	ug/L	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<1
Methyl iodide	ug/L	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5
Nickel, total	ug/L	<4	<4	<4	<5
Selenium, total	ug/L	<4	<4	<4	<2
Silver, total	ug/L	<4	<4	<4	<5
Styrene	ug/L	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1
Thallium, total	ug/L	<2.0	<2.0	<2.0	<.5
Toluene	ug/L	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<2
Vinyl acetate	ug/L	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2
Zinc, total	ug/L	<20.0	<20.0	<20.0	6.3

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-7

Constituents	Units	9/17/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/22/2017	10/13/2017	3/9/2018	9/6/2018
(3+4)-methylphenol	ug/L									
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L									
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L									
1,2,4-trichlorobenzene	ug/L									
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene	ug/L									
1,3,5-trinitrobenzene	ug/L									
1,3-dichlorobenzene	ug/L									
1,3-dichloropropane	ug/L									
1,3-dinitrobenzene	ug/L									
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L									
1,4-phenylenediamine	ug/L									
1-naphthylamine	ug/L									
2,2-dichloropropane	ug/L									
2,3,4,6-tetrachlorophenol	ug/L									
2,4,5-t	ug/L									
2,4,5-tp (silvex)	ug/L									
2,4,5-trichlorophenol	ug/L									
2,4,6-trichlorophenol	ug/L									
2,4-d	ug/L									
2,4-dichlorophenol	ug/L									
2,4-dimethylphenol	ug/L									
2,4-dinitrophenol	ug/L									
2,4-dinitrotoluene	ug/L									
2,6-dichlorophenol	ug/L									
2,6-dinitrotoluene	ug/L									
2-acetylaminofluorene	ug/L									
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene	ug/L									
2-chlorophenol	ug/L									
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L									
2-methylphenol	ug/L									
2-naphthylamine	ug/L									
2-nitroaniline	ug/L									
2-nitrophenol	ug/L									
3,3'-dichlorobenzidine	ug/L									
3,3'-dimethylbenzidine	ug/L									
3-methylcholanthrene	ug/L									
3-nitroaniline	ug/L									
4,4'-ddd	ug/L									
4,4'-dde	ug/L									
4,4'-ddt	ug/L									
4,6-dinitro-2-methylphenol	ug/L									
4-aminobiphenyl	ug/L									
4-bromophenyl phenyl ether	ug/L									
4-chloro-3-methylphenol	ug/L									
4-chloroaniline	ug/L									
4-chlorophenyl phenyl ether	ug/L									
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	ug/L									
4-nitrophenol	ug/L									
5-nitro-o-toluidine	ug/L									
7,12-dimethylbenz(a)anthracene	ug/L									
Acenaphthene	ug/L									
Acenaphthylene	ug/L									
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	12.4	<10.0	<10.0
Acetonitrile	ug/L									
Acetophenone	ug/L									
Acrolein	ug/L									
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin	ug/L									
Allyl chloride	ug/L									
Alpha-bhc	ug/L									
Anthracene	ug/L									

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-7

Constituents	3/7/2019	9/26/2019	12/17/2019	4/2/2020	9/17/2020	12/3/2020	3/25/2021	6/3/2021	9/16/2021
(3+4)-methylphenol							<8		
1,1,1,2-tetrachloroethane	<1	<1		<1	<1		<1		<1
1,1,1-trichloroethane	<1	<1		<1	<1		<1		<1
1,1,2,2-tetrachloroethane	<1	<1		<1	<1		<1		<1
1,1,2-trichloroethane	<1	<1		<1	<1		<1		<1
1,1-dichloroethane	<1	<1		<1	<1		<1		<1
1,1-dichloroethylene	<1	<1		<1	<1		<1		<1
1,1-dichloropropene							3.7	<1.0	
1,2,3-trichloropropane	<1	<1		<1	<1		<1		<1
1,2,4,5-tetrachlorobenzene							<8		
1,2,4-trichlorobenzene							<1		
1,2-dibromo-3-chloropropane	<1	<1		<5	<5		<1		<5
1,2-dibromoethane	<1	<1		<1	<1		<1		<1
1,2-dichlorobenzene	<1	<1		<1	<1		<1		<1
1,2-dichloroethane	<1	<1		<1	<1		<1		<1
1,2-dichloropropane	<1	<1		<1	<1		<1		<1
1,2-dinitrobenzene							<8		
1,3,5-trinitrobenzene							<8		
1,3-dichlorobenzene							<1		
1,3-dichloropropane							<1		
1,3-dinitrobenzene							<8		
1,4-dichlorobenzene	<1	<1		<1	<1		<1		<1
1,4-naphthoquinone							<8		
1,4-phenylenediamine							<8		
1-naphthylamine							<8		
2,2-dichloropropane							<1		
2,3,4,6-tetrachlorophenol							<8		
2,4,5-t							2.0	<.5	
2,4,5-tp (silvex)							<.5		
2,4,5-trichlorophenol							<8		
2,4,6-trichlorophenol							<8		
2,4-d							<2		
2,4-dichlorophenol							<8		
2,4-dimethylphenol							<8		
2,4-dinitrophenol							<8		
2,4-dinitrotoluene							<8		
2,6-dichlorophenol							<8		
2,6-dinitrotoluene							<8		
2-acetylaminofluorene							<8		
2-butanone (mek)	<5	<5		<5	<5		<5		<5
2-chloronaphthalene							<8		
2-chlorophenol							<8		
2-hexanone (mbk)	<5	<5		<5	<5		<5		<5
2-methylnaphthalene							<8		
2-methylphenol							<8		
2-naphthylamine							<8		
2-nitroaniline							<8		
2-nitrophenol							<8		
3,3'-dichlorobenzidine							<8		
3,3'-dimethylbenzidine							<8		
3-methylcholanthrene							<8		
3-nitroaniline							<8		
4,4'-ddd							<.05		
4,4'-dde							<.05		
4,4'-ddt							<.05		
4,6-dinitro-2-methylphenol							<8		
4-aminobiphenyl							<8		
4-bromophenyl phenyl ether							<8		
4-chloro-3-methylphenol							<8		
4-chloroaniline							<8		
4-chlorophenyl phenyl ether							<8		
4-methyl-2-pentanone (mibk)	<5	<5		<5	<5		<5		<5
4-nitroaniline							<8		
4-nitrophenol							<8		
5-nitro-o-toluidine							<8		
7,12-dimethylbenz(a)anthracene							<8		
Acenaphthene							<8		
Acenaphthylene							<8		
Acetone	<10.0	<10.0		<10.0	<10.0		<10.0		<10.0
Acetonitrile							<10		
Acetophenone							<8		
Acrolein							<10		
Acrylonitrile	<5	<5		<5	<5		<5		<5
Aldrin							<.05		
Allyl chloride							<1		
Alpha-bhc							<.05		
Anthracene							<8		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-7

Constituents	3/16/2022	9/1/2022	3/24/2023	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
(3+4)-methylphenol		<8						
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene		<1.0						
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene		<8						
1,2,4-trichlorobenzene		<1						
1,2-dibromo-3-chloropropane	<5	<1	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene		<8						
1,3,5-trinitrobenzene		<8						
1,3-dichlorobenzene		<1						
1,3-dichloropropane		<1						
1,3-dinitrobenzene		<8						
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone		<8						
1,4-phenylenediamine		<8						
1-naphthylamine		<8						
2,2-dichloropropane		<1						
2,3,4,6-tetrachlorophenol		<8						
2,4,5-t		<5						
2,4,5-tp (silvex)		<5						
2,4,5-trichlorophenol		<8						
2,4,6-trichlorophenol		<8						
2,4-d		<2						
2,4-dichlorophenol		<8						
2,4-dimethylphenol		<8						
2,4-dinitrophenol		<8						
2,4-dinitrotoluene		<8						
2,6-dichlorophenol		<8						
2,6-dinitrotoluene		<8						
2-acetylaminofluorene		<8						
2-butanone (mek)	<10	<5	<10	<10	<10	<10	<10	<10
2-chloronaphthalene		<8						
2-chlorophenol		<8						
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene		<8						
2-methylphenol		<8						
2-naphthylamine		<8						
2-nitroaniline		<8						
2-nitrophenol		<8						
3,3'-dichlorobenzidine		<8						
3,3'-dimethylbenzidine		<8						
3-methylcholanthrene		<8						
3-nitroaniline		<8						
4,4'-ddd		<.05						
4,4'-dde		<.05						
4,4'-ddt		<.05						
4,6-dinitro-2-methylphenol		<8						
4-aminobiphenyl		<8						
4-bromophenyl phenyl ether		<8						
4-chloro-3-methylphenol		<8						
4-chloroaniline		<8						
4-chlorophenyl phenyl ether		<8						
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline		<8						
4-nitrophenol		<8						
5-nitro-o-toluidine		<8						
7,12-dimethylbenz(a)anthracene		<8						
Acenaphthene		<8						
Acenaphthylene		<8						
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile		<10						
Acetophenone		<8						
Acrolein		<10						
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin		<.05						
Allyl chloride		<1						
Alpha-bhc		<.05						
Anthracene		<8						

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-7

Constituents	Units	9/17/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/22/2017	10/13/2017	3/9/2018	9/6/2018
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L									
Arochlor 1221	ug/L									
Arochlor 1232	ug/L									
Arochlor 1242	ug/L									
Arochlor 1248	ug/L									
Arochlor 1254	ug/L									
Arochlor 1260	ug/L									
Arsenic, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Azobenzene	ug/L									
Barium, total	ug/L	186	265	314	295	304	281	310	303	279
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene	ug/L									
Benzo(a)pyrene	ug/L									
Benzo(b)fluoranthene	ug/L									
Benzo(g,h,i)perylene	ug/L									
Benzo(k)fluoranthene	ug/L									
Benzyl alcohol	ug/L									
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc	ug/L									
Bis (2-chloroethoxy) methane	ug/L									
Bis(2-chloroethyl) ether	ug/L									
Bis(2-chloroisopropyl) ether	ug/L									
Bis(2-ethylhexyl) phthalate	ug/L									
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	ug/L									
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L									
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	ug/L									
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene	ug/L									
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene	ug/L									
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	2.0	3.1	9.2	6.9	8.4	6.3	8.4	11.6	6.9
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Cyanide, total	mg/L									
Delta-bhc	ug/L									
Diallate	ug/L									
Dibenzo(a,h)anthracene	ug/L									
Dibenzofuran	ug/L									
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L									
Dieldrin	ug/L									
Diethyl phthalate	ug/L									
Dimethoate	ug/L									
Dimethylphthalate	ug/L									
Di-n-butyl phthalate	ug/L									
Di-n-octyl phthalate	ug/L									
Dinoseb	ug/L									
Diphenylamine	ug/L									
Disulfoton	ug/L									
Endosulfan i	ug/L									
Endosulfan ii	ug/L									
Endosulfan sulfate	ug/L									
Endrin	ug/L									
Endrin aldehyde	ug/L									
Ethyl methacrylate	ug/L									
Ethyl methanesulfonate	ug/L									
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L									
Fluoranthene	ug/L									
Fluorene	ug/L									
Gamma-bhc (lindane)	ug/L									
Heptachlor	ug/L									
Heptachlor epoxide	ug/L									
Hexachlorobenzene	ug/L									

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-7

Constituents	3/7/2019	9/26/2019	12/17/2019	4/2/2020	9/17/2020	12/3/2020	3/25/2021	6/3/2021	9/16/2021
Antimony, total	<2	<2		<2	<2		<2		<2
Arochlor 1016							<1		
Arochlor 1221							<2		
Arochlor 1232							<2		
Arochlor 1242							<2		
Arochlor 1248							<2		
Arochlor 1254							<1		
Arochlor 1260							<1		
Arsenic, total	<4.0	8.2	4.7	<4.0	6.9	7.2	<4.0		<4.0
Azobenzene							<8		
Barium, total	352	327		320	332		348		280
Benzene	<1.0	<1.0		<1.0	<1.0		<1.0		1.4
Benzo(a)anthracene							<8		
Benzo(a)pyrene							<8		
Benzo(b)fluoranthene							<8		
Benzo(g,h,i)perylene							<8		
Benzo(k)fluoranthene							<8		
Benzyl alcohol							<8		
Beryllium, total	<4.0	<4.0		<4.0	<4.0		<4.0		<4.0
Beta-bhc							<.05		
Bis (2-chloroethoxy) methane							<8		
Bis(2-chloroethyl) ether							<8		
Bis(2-chloroisopropyl) ether							<8		
Bis(2-ethylhexyl) phthalate							<6		
Bromochloromethane	<1	<1		<1	<1		<1		<1
Bromodichloromethane	<1	<1		<1	<1		<1		<1
Bromoform	<1	<1		<1	<1		<1		<1
Bromomethane	<1	<1		<1	<1		<1		<1
Butyl benzyl phthalate							<8		
Cadmium, total	<.8	<.8		<.8	<.8		<.8		<.8
Carbon disulfide	<1	<1		<1	<1		<1		<1
Carbon tetrachloride	<1	<1		<1	<1		<1		<1
Chlordane							<1		
Chlorobenzene	<1	<1		<1	<1		<1		<1
Chlorobenzilate							<8		
Chloroethane	<1	<1		<1	<1		<1		<1
Chloroform	<1	<1		<1	<1		<1		<1
Chloromethane	<1	<1		<1	<1		<1		<1
Chloroprene							<1		
Chromium, total	<8	<8		<8	<8		<8		<8
Chrysene							<8		
Cis-1,2-dichloroethylene	<1	<1		<1	<1		<1		<1
Cis-1,3-dichloropropene	<1	<1		<1	<1		<1		<1
Cobalt, total	14.0	13.8		12.2	16.2		15.7		9.1
Copper, total	<4	<4		<4	<4		<4		<4
Cyanide, total							<.005		
Delta-bhc							<.05		
Diallate							<8		
Dibenzo(a,h)anthracene							<8		
Dibenzofuran							<8		
Dibromochloromethane	<1	<1		<1	<1		<1		<1
Dibromomethane	<1	<1		<1	<1		<1		<1
Dichlorodifluoromethane							<1		
Dieldrin							<.05		
Diethyl phthalate							<8		
Dimethoate							<.4		
Dimethylphthalate							<8		
Di-n-butyl phthalate							<8		
Di-n-octyl phthalate							<8		
Dinoseb							<.5		
Diphenylamine							<8		
Disulfoton							<.4		
Endosulfan i							<.05		
Endosulfan ii							<.05		
Endosulfan sulfate							<.05		
Endrin							<.05		
Endrin aldehyde							<.05		
Ethyl methacrylate							<10		
Ethyl methanesulfonate							<8		
Ethylbenzene	<1	<1		<1	<1		<1		<1
Famphur							<.4		
Fluoranthene							<8		
Fluorene							<8		
Gamma-bhc (lindane)							<.05		
Heptachlor							<.05		
Heptachlor epoxide							<.05		
Hexachlorobenzene							<.05		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-7

Constituents	3/16/2022	9/1/2022	3/24/2023	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<1
Arochlor 1016		<1						
Arochlor 1221		<2						
Arochlor 1232		<2						
Arochlor 1242		<2						
Arochlor 1248		<2						
Arochlor 1254		<1						
Arochlor 1260		<1						
Arsenic, total	4.3	5.7	<4.0	8.8	5.4	9.0	6.6	8.4
Azobenzene		<8						
Barium, total	320	339	293	306	310	321	344	313
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene		<8						
Benzo(a)pyrene		<8						
Benzo(b)fluoranthene		<8						
Benzo(g,h,i)perylene		<8						
Benzo(k)fluoranthene		<8						
Benzyl alcohol		<8						
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Beta-bhc		<.05						
Bis (2-chloroethoxy) methane		<8						
Bis(2-chloroethyl) ether		<8						
Bis(2-chloroisopropyl) ether		<8						
Bis(2-ethylhexyl) phthalate		9	<6					
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate		<8						
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	1.7	<.2
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane		<1						
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate		<8						
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene		<1						
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<1
Chrysene		<8						
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	15.6	10.9	9.2	9.4	8.7	10.1	12.0	9.2
Copper, total	<4	<4	<4	<4	<4	<4	<4	<5
Cyanide, total		<.005						
Delta-bhc		<.05						
Diallate		<8						
Dibenzo(a,h)anthracene		<8						
Dibenzofuran		<8						
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane		<1						
Dieldrin		<.05						
Diethyl phthalate		<8						
Dimethoate		<.4						
Dimethylphthalate		<8						
Di-n-butyl phthalate		<8						
Di-n-octyl phthalate		<8						
Dinoseb		<.5						
Diphenylamine		<8						
Disulfoton		<.4						
Endosulfan i		<.05						
Endosulfan ii		<.05						
Endosulfan sulfate		<.05						
Endrin		<.05						
Endrin aldehyde		<.05						
Ethyl methacrylate		<10						
Ethyl methanesulfonate		<8						
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
Famphur		<.4						
Fluoranthene		<8						
Fluorene		<8						
Gamma-bhc (lindane)		<.05						
Heptachlor		<.05						
Heptachlor epoxide		<.05						
Hexachlorobenzene		<.05						

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-7

Constituents	Units	9/17/2014	4/28/2015	10/6/2015	4/23/2016	9/1/2016	3/22/2017	10/13/2017	3/9/2018	9/6/2018
Hexachlorobutadiene	ug/L									
Hexachlorocyclopentadiene	ug/L									
Hexachloroethane	ug/L									
Hexachloropropene	ug/L									
Indeno(1,2,3-cd)pyrene	ug/L									
Isobutanol	mg/L									
Isodrin	ug/L									
Isophorone	ug/L									
Isosafrole	ug/L									
Kepone	ug/L									
Lead, total	ug/L	<4.0	<4.0	4.5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Mercury, total	ug/L									
Methacrylonitrile	ug/L									
Methapyrilene	ug/L									
Methoxychlor	ug/L									
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate	ug/L									
Methyl methanesulfonate	ug/L									
Methyl parathion	ug/L									
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L									
Nickel, total	ug/L	13.3	16.2	17.4	19.7	16.8	16.2	16.9	24.4	16.0
Nitrobenzene	ug/L									
N-nitrosodiethylamine	ug/L									
N-nitrosodimethylamine	ug/L									
N-nitrosodi-n-butylamine	ug/L									
N-nitroso-di-n-propylamine	ug/L									
N-nitrosodiphenylamine	ug/L									
N-nitrosomethylethylamine	ug/L									
N-nitrosopiperidine	ug/L									
N-nitrosopyrrolidine	ug/L									
O,o,o-triethyl phosphorothioate	ug/L									
O-toluidine	ug/L									
Parathion	ug/L									
P-dimethylaminoazobenzene	ug/L									
Pentachlorobenzene	ug/L									
Pentachloronitrobenzene (pcnb)	ug/L									
Pentachlorophenol	ug/L									
Phenacetin	ug/L									
Phenanthrene	ug/L									
Phenol	ug/L									
Phorate	ug/L									
Pronamide	ug/L									
Propionitrile	ug/L									
Pyrene	ug/L									
Safrole	ug/L									
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<8
Solids, total suspended	mg/L	7	19	5	6	11	9	103		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L									
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Thionazin	ug/L									
Tin, total	ug/L									
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L									
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0	<8.0	8.4	<20.0	<8.0	<8.0	<8.0	<8.0	20.8

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-7

Constituents	3/7/2019	9/26/2019	12/17/2019	4/2/2020	9/17/2020	12/3/2020	3/25/2021	6/3/2021	9/16/2021
Hexachlorobutadiene							<8		
Hexachlorocyclopentadiene							<8		
Hexachloroethane							<8		
Hexachloropropene							<8		
Indeno(1,2,3-cd)pyrene							<8		
Isobutanol							<1		
Isodrin							<8		
Isophorone							<8		
Isosafrole							<8		
Kepone							<8		
Lead, total	<4.0	<4.0		<4.0	<4.0		<4.0		<4.0
Mercury, total							<.5		
Methacrylonitrile							<1		
Methapyrene							<8		
Methoxychlor							<.05		
Methyl iodide	<1	<1		<1	<1		<2		<1
Methyl methacrylate							<1		
Methyl methanesulfonate							<8		
Methyl parathion							<.4		
Methylene chloride	<5	<5		<5	<5		<5		<5
Naphthalene							<8		
Nickel, total	23.2	17.0		19.8	20.8		23.9		19.7
Nitrobenzene							<8		
N-nitrosodiethylamine							<8		
N-nitrosodimethylamine							<8		
N-nitrosodi-n-butylamine							<8		
N-nitroso-di-n-propylamine							<8		
N-nitrosodiphenylamine							<8		
N-nitrosomethylethylamine							<8		
N-nitrosopiperidine							<8		
N-nitrosopyrrolidine							<8		
O,o,o-triethyl phosphorothioate							<.4		
O-toluidine							<8		
Parathion							<.4		
P-dimethylaminoazobenzene							<8		
Pentachlorobenzene							<8		
Pentachloronitrobenzene (pcnb)							<8		
Pentachlorophenol							<8		
Phenacetin							<8		
Phenanthrene							<8		
Phenol							<8		
Phorate							<.4		
Pronamide							<8		
Propionitrile							<10		
Pyrene							<8		
Safrole							<8		
Selenium, total	<4	<4		<4	<4		<4		<4
Silver, total	<4	<4		<4	<4		<4		<4
Solids, total suspended									
Styrene	<1	<1		<1	<1		<1		<1
Sulfide, total							<.1		
Tetrachloroethylene	<1	<1		<1	<1		<1		<1
Thallium, total	<2.0	<2.0		<2.0	<2.0		<2.0		<2.0
Thionazin							<.4		
Tin, total							<20		
Toluene	<1	<1		<1	<1		<1		<1
Toxaphene							<.2		
Trans-1,2-dichloroethylene	<1	<1		<1	<1		<1		<1
Trans-1,3-dichloropropene	<1	<1		<1	<1		<1		<1
Trans-1,4-dichloro-2-butene	<5	<5		<5	<5		<5		<5
Trichloroethylene	<1	<1		<1	<1		<1		<1
Trichlorofluoromethane	<1	<1		<1	<1		<1		<1
Vanadium, total	<20	<20		<20	<20		<20		<20
Vinyl acetate	<5	<5		<5	<5		<5		<5
Vinyl chloride	<1	<1		<1	<1		<1		<1
Xylenes, total	<2	<2		<2	<2		<2		<2
Zinc, total	<8.0	25.6		<20.0	<20.0		<20.0		<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-7

Constituents	3/16/2022	9/1/2022	3/24/2023	9/7/2023	3/18/2024	9/25/2024	3/10/2025	9/8/2025
Hexachlorobutadiene		<8						
Hexachlorocyclopentadiene		<8						
Hexachloroethane		<8						
Hexachloropropene		<8						
Indeno(1,2,3-cd)pyrene		<8						
Isobutanol		<1						
Isodrin		<8						
Isophorone		<8						
Isosafrole		<8						
Kepone		<8						
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
Mercury, total		<.5						
Methacrylonitrile		<1						
Methapyrilene		<8						
Methoxychlor		<.05						
Methyl iodide	<1	<2	<1	<1	<1	<1	<1	<1
Methyl methacrylate		<1						
Methyl methanesulfonate		<8						
Methyl parathion		<4						
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<8						
Nickel, total	22.1	19.3	15.4	17.0	14.2	16.6	18.4	19.3
Nitrobenzene		<8						
N-nitrosodiethylamine		<8						
N-nitrosodimethylamine		<8						
N-nitrosodi-n-butylamine		<8						
N-nitroso-di-n-propylamine		<8						
N-nitrosodiphenylamine		<8						
N-nitrosomethylethylamine		<8						
N-nitrosopiperidine		<8						
N-nitrosopyrrolidine		<8						
O,o,o-triethyl phosphorothioate		<.4						
O-toluidine		<8						
Parathion		<.4						
P-dimethylaminoazobenzene		<8						
Pentachlorobenzene		<8						
Pentachloronitrobenzene (pcnb)		<8						
Pentachlorophenol		<8						
Phenacetin		<8						
Phenanthrene		<8						
Phenol		<8						
Phorate		<.4						
Pronamide		<8						
Propionitrile		<10						
Pyrene		<8						
Safrole		<8						
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<2
Silver, total	<4	<4	<4	<4	<4	<4	<4	<5
Solids, total suspended								
Styrene	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total		<.1						
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<.5
Thionazin		<.4						
Tin, total		<20						
Toluene	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene		<.2						
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	11.4

* - The displayed value is the arithmetic mean of multiple database matches.

Table 10 – Historic SSI and SSL

Table 10
Historic SSI & SSL
Annual Water Quality Report
Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

KEY:	SSI

Note: The absence of shading indicates that the condition does not exist.

SSL LCL>GWPS	SSL UCL>GWPS

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)
MW-16	Arsenic	9/18/2014	34.30	5.6	---	---	10
MW-16	Arsenic	4/28/2015	38.50	5.6	---	---	10
MW-16	Arsenic	10/6/2015	<4.0	5.6	---	---	10
MW-16	Arsenic	4/23/2016	<4.0	5.6	1.936	36.464	10
MW-16	Arsenic	9/1/2016	<4.0	5.6	0.000	26.930	10
MW-16	Arsenic	3/21/2017	9.30	5.6	0.664	6.986	10
MW-16	Arsenic	10/13/2017	19.00	5.6	1.099	15.051	10
MW-16	Arsenic	3/9/2018	<4.0	5.6	1.099	15.051	10
MW-16	Arsenic	9/6/2018	<4.0	5.6	1.099	15.051	10
MW-16	Arsenic	9/26/2019	6.30	5.6	0.360	14.290	10
MW-16	Arsenic	4/2/2020	9.30	5.6	1.812	7.988	10
MW-16	Arsenic	9/17/2020	6.50	5.6	3.416	8.634	10
MW-16	Arsenic	3/25/2021	21.20	5.6	4.719	16.931	10
MW-16	Arsenic	9/16/2021	10.40	5.6	6.268	17.432	10
MW-16	Arsenic	3/16/2022	26.50	5.6	5.224	27.076	10
MW-16	Arsenic	9/1/2022	4.70	5.6	4.016	27.384	10
MW-16	Arsenic	3/24/2023	4.30	5.6	0.000	23.705	10
MW-16	Arsenic	9/7/2023	<4.0	5.6	0.000	22.877	10
MW-16	Arsenic	3/18/2024	20.40	5.6	0.000	17.791	10
MW-16	Arsenic	9/25/2024	26.20	5.6	0.000	27.234	10
MW-16	Arsenic	3/10/2025	24.00	5.6	5.177	31.123	10
MW-16	Arsenic	9/8/2025	45.80	5.6	15.705	42.495	10

Table 10
Historic SSI & SSL
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KEY:	SSI

Note: The absence of shading indicates that the condition does not exist.

SSL LCL>GWPS	SSL UCL>GWPS

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)
MW-18	Arsenic	9/17/2014	22.00	5.6	---	---	10
MW-18	Arsenic	4/28/2015	45.90	5.6	---	---	10
MW-18	Arsenic	10/6/2015	39.20	5.6	---	---	10
MW-18	Arsenic	4/23/2016	51.80	5.6	28.563	50.887	10
MW-18	Arsenic	9/1/2016	81.40	5.6	38.459	70.691	10
MW-18	Arsenic	3/21/2017	49.70	5.6	39.842	71.208	10
MW-18	Arsenic	10/13/2017	50.10	5.6	44.861	71.639	10
MW-18	Arsenic	3/9/2018	46.10	5.6	42.551	71.099	10
MW-18	Arsenic	9/6/2018	74.40	5.6	43.809	66.341	10
MW-18	Arsenic	3/7/2019	87.20	5.6	47.426	81.474	10
MW-18	Arsenic	9/26/2019	99.20	5.6	56.988	96.462	10
MW-18	Arsenic	4/2/2020	81.70	5.6	76.567	94.683	10
MW-18	Arsenic	9/17/2020	34.80	5.6	51.264	100.186	10
MW-18	Arsenic	3/25/2021	9.60	5.6	20.518	92.132	10
MW-18	Arsenic	9/16/2021	36.00	5.6	14.520	66.530	10
MW-18	Arsenic	3/16/2022	34.70	5.6	13.722	43.828	10
MW-18	Arsenic	9/1/2022	24.10	5.6	11.722	40.478	10
MW-18	Arsenic	3/24/2023	67.40	5.6	18.581	62.519	10
MW-18	Arsenic	9/7/2023	26.90	5.6	14.834	61.716	10
MW-18	Arsenic	3/18/2024	23.70	5.6	10.473	60.577	10
MW-18	Arsenic	9/25/2024	43.60	5.6	16.871	63.929	10
MW-18	Arsenic	3/10/2025	31.20	5.6	21.086	41.614	10
MW-18	Arsenic	9/8/2025	40.30	5.6	24.096	45.304	10

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 10
Historic SSI & SSL
Annual Water Quality Report
Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

KEY:	SSI

SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)
MW-20	Arsenic	9/18/2014	75.20	5.6	---	---	10
MW-20	Arsenic	4/28/2015	45.50	5.6	---	---	10
MW-20	Arsenic	10/6/2015	81.70	5.6	---	---	10
MW-20	Arsenic	4/23/2016	81.50	5.6	56.037	85.913	10
MW-20	Arsenic	9/1/2016	77.10	5.6	56.355	86.545	10
MW-20	Arsenic	3/21/2017	79.10	5.6	77.961	81.739	10
MW-20	Arsenic	10/13/2017	96.80	5.6	75.861	91.389	10
MW-20	Arsenic	3/9/2018	83.40	5.6	76.422	91.788	10
MW-20	Arsenic	9/6/2018	99.60	5.6	81.058	98.392	10
MW-20	Arsenic	3/7/2019	78.40	5.6	80.666	98.434	10
MW-20	Arsenic	9/26/2019	83.60	5.6	78.266	94.234	10
MW-20	Arsenic	4/2/2020	65.20	5.6	69.380	94.020	10
MW-20	Arsenic	9/17/2020	87.10	5.6	70.256	86.894	10
MW-20	Arsenic	3/25/2021	106.00	5.6	70.997	99.953	10
MW-20	Arsenic	9/16/2021	87.80	5.6	72.068	100.982	10
MW-20	Arsenic	3/16/2022	127.00	5.6	79.816	124.134	10
MW-20	Arsenic	9/1/2022	133.00	5.6	89.160	137.740	10
MW-20	Arsenic	3/24/2023	94.60	5.6	83.892	137.308	10
MW-20	Arsenic	9/7/2023	83.40	5.6	80.995	138.005	10
MW-20	Arsenic	3/18/2024	112.00	5.6	80.290	131.210	10
MW-20	Arsenic	9/25/2024	44.10	5.6	49.651	117.399	10
MW-20	Arsenic	3/10/2025	31.20	5.6	37.725	109.475	10
MW-20	Arsenic	9/8/2025	59.70	5.6	32.079	103.271	10

Table 10
Historic SSI & SSL
Annual Water Quality Report
Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

KEY:	SSI

SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)
MW-20	Barium	9/18/2014	2370.0	744.8651	---	---	2000
MW-20	Barium	4/28/2015	2390.0	744.8651	---	---	2000
MW-20	Barium	10/6/2015	2490.0	744.8651	---	---	2000
MW-20	Barium	4/23/2016	2260.0	744.8651	2295.838	2459.162	2000
MW-20	Barium	9/1/2016	2140.0	744.8651	2187.902	2452.098	2000
MW-20	Barium	3/21/2017	2140.0	744.8651	2114.606	2400.394	2000
MW-20	Barium	10/13/2017	2340.0	744.8651	2135.147	2304.853	2000
MW-20	Barium	3/9/2018	2010.0	744.8651	2039.522	2275.478	2000
MW-20	Barium	9/6/2018	2360.0	744.8651	2067.349	2357.651	2000
MW-20	Barium	3/7/2019	2100.0	744.8651	2051.441	2353.559	2000
MW-20	Barium	9/26/2019	2350.0	744.8651	2051.621	2358.379	2000
MW-20	Barium	4/2/2020	2300.0	744.8651	2172.530	2382.470	2000
MW-20	Barium	9/17/2020	1970.0	744.8651	2026.866	2333.134	2000
MW-20	Barium	3/25/2021	1970.0	744.8651	1969.122	2325.878	2000
MW-20	Barium	9/16/2021	2160.0	744.8651	1960.896	2239.104	2000
MW-20	Barium	3/16/2022	1890.0	744.8651	1862.568	2132.432	2000
MW-20	Barium	9/1/2022	2020.0	744.8651	1876.572	2143.428	2000
MW-20	Barium	3/24/2023	2000.0	762.2866	1887.087	2147.913	2000
MW-20	Barium	9/7/2023	1810.0	754.8120	1814.348	2045.652	2000
MW-20	Barium	3/18/2024	2110.0	776.0663	1836.676	2133.324	2000
MW-20	Barium	9/25/2024	1950.0	769.2044	1821.093	2113.907	2000
MW-20	Barium	3/10/2025	1640.0	748.3411	1641.973	2113.027	2000
MW-20	Barium	9/8/2025	1860.0	735.5741	1659.295	2120.705	2000

Table 11 – Corrective Action Trend Analysis

Table 11
Corrective Action Trend Analysis
Annual Water Quality Report
Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

Monitoring Well	Compound	Sample Date	Current Condition	Trend	N	Projected Year to Completion (IAC 113.10(9)"e"
MW-16	Arsenic	9/18/2014	SSI	NA	NA	NA
MW-16	Arsenic	4/28/2015	SSI	NA	NA	NA
MW-16	Arsenic	10/6/2015	No-SSI	NA	NA	NA
MW-16	Arsenic	4/23/2016	No-SSI	NA	NA	NA
MW-16	Arsenic	9/1/2016	No-SSI	NA	NA	NA
MW-16	Arsenic	3/21/2017	SSI	NA	NA	NA
MW-16	Arsenic	10/13/2017	SSI	NA	NA	NA
MW-16	Arsenic	3/9/2018	No-SSI	NA	NA	NA
MW-16	Arsenic	9/6/2018	No-SSI	NA	NA	NA
MW-16	Arsenic	9/26/2019	SSI	NA	NA	NA
MW-16	Arsenic	4/2/2020	SSI	NA	NA	NA
MW-16	Arsenic	9/17/2020	SSI	NA	NA	NA
MW-16	Arsenic	3/25/2021	SSI	NA	NA	NA
MW-16	Arsenic	9/16/2021	SSI	NA	NA	NA
MW-16	Arsenic	3/16/2022	SSI	NA	NA	NA
MW-16	Arsenic	9/1/2022	No-SSI	NA	NA	NA
MW-16	Arsenic	3/24/2023	No-SSI	NA	NA	NA
MW-16	Arsenic	9/7/2023	No-SSI	NA	NA	NA
MW-16	Arsenic	3/18/2024	SSI	NA	NA	NA
MW-16	Arsenic	9/25/2024	SSI	increasing	1	Undertermined
MW-16	Arsenic	3/10/2025	SSI	increasing	2	Undertermined
MW-16	Arsenic	9/8/2025	SSL	increasing	3	Undertermined

Table 11
Corrective Action Trend Analysis
Annual Water Quality Report
Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

Monitoring Well	Compound	Sample Date	Current Condition	Trend	N	Projected Year to Completion (IAC 113.10(9)"e"
MW-18	Arsenic	9/17/2014	SSI	increasing	NA	NA
MW-18	Arsenic	4/28/2015	SSI	increasing	NA	NA
MW-18	Arsenic	10/6/2015	SSI	increasing	NA	NA
MW-18	Arsenic	4/23/2016	SSL	increasing	1	NA
MW-18	Arsenic	9/1/2016	SSL	increasing	2	NA
MW-18	Arsenic	3/21/2017	SSL	increasing	3	NA
MW-18	Arsenic	10/13/2017	SSL	increasing	4	NA
MW-18	Arsenic	3/9/2018	SSL	increasing	5	NA
MW-18	Arsenic	9/6/2018	SSL	increasing	6	NA
MW-18	Arsenic	3/7/2019	SSL	increasing	7	NA
MW-18	Arsenic	9/26/2019	SSL	increasing	8	NA
MW-18	Arsenic	4/2/2020	SSL	increasing	9	NA
MW-18	Arsenic	9/17/2020	SSL	decreasing	10	NA
MW-18	Arsenic	3/25/2021	SSL	decreasing	11	NA
MW-18	Arsenic	9/16/2021	SSL	decreasing	12	NA
MW-18	Arsenic	3/16/2022	SSL	decreasing	13	NA
MW-18	Arsenic	9/1/2022	SSL	decreasing	14	NA
MW-18	Arsenic	3/24/2023	SSL	increasing	15	NA
MW-18	Arsenic	9/7/2023	SSL	decreasing	16	NA
MW-18	Arsenic	3/18/2024	SSL	decreasing	17	NA
MW-18	Arsenic	9/25/2024	SSL	increasing	18	NA
MW-18	Arsenic	3/10/2025	SSL	increasing	19	NA
MW-18	Arsenic	9/8/2025	SSL	increasing	20	NA

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 11
Corrective Action Trend Analysis
Annual Water Quality Report
Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

Monitoring Well	Compound	Sample Date	Current Condition	Trend	N	Projected Year to Completion (IAC 113.10(9)"e"
MW-20	Arsenic	9/18/2014	SSI	NA	NA	NA
MW-20	Arsenic	4/28/2015	SSI	NA	NA	NA
MW-20	Arsenic	10/6/2015	SSI	NA	NA	NA
MW-20	Arsenic	4/23/2016	SSL	Static	1	NA
MW-20	Arsenic	9/1/2016	SSL	Static	2	NA
MW-20	Arsenic	3/21/2017	SSL	Static	3	NA
MW-20	Arsenic	10/13/2017	SSL	Static	4	NA
MW-20	Arsenic	3/9/2018	SSL	Static	5	NA
MW-20	Arsenic	9/6/2018	SSL	Static	6	NA
MW-20	Arsenic	3/7/2019	SSL	Static	7	NA
MW-20	Arsenic	9/26/2019	SSL	Static	8	NA
MW-20	Arsenic	4/2/2020	SSL	Static	9	NA
MW-20	Arsenic	9/17/2020	SSL	Static	10	NA
MW-20	Arsenic	3/25/2021	SSL	Static	11	NA
MW-20	Arsenic	9/16/2021	SSL	Static	12	NA
MW-20	Arsenic	3/16/2022	SSL	Static	13	NA
MW-20	Arsenic	9/1/2022	SSL	Static	14	NA
MW-20	Arsenic	3/24/2023	SSL	Static	15	NA
MW-20	Arsenic	9/7/2023	SSL	Static	16	NA
MW-20	Arsenic	3/18/2024	SSL	decreasing	17	NA
MW-20	Arsenic	9/25/2024	SSL	decreasing	18	NA
MW-20	Arsenic	3/10/2025	SSL	decreasing	19	NA
MW-20	Arsenic	9/8/2025	SSL	decreasing	20	NA

Table 11
Corrective Action Trend Analysis
Annual Water Quality Report
Page County Sanitary Landfill
Permit No. 73-SDP-01-75P

Monitoring Well	Compound	Sample Date	Current Condition	Trend	N	Projected Year to Completion (IAC 113.10(9)"e"
MW-20	Barium	9/18/2014	SSI	NA	NA	NA
MW-20	Barium	4/28/2015	SSI	NA	NA	NA
MW-20	Barium	10/6/2015	SSI	NA	NA	NA
MW-20	Barium	4/23/2016	SSL	decreasing	1	NA
MW-20	Barium	9/1/2016	SSL	decreasing	2	NA
MW-20	Barium	3/21/2017	SSL	decreasing	3	NA
MW-20	Barium	10/13/2017	SSL	decreasing	4	NA
MW-20	Barium	3/9/2018	SSL	decreasing	5	NA
MW-20	Barium	9/6/2018	SSL	decreasing	6	NA
MW-20	Barium	3/7/2019	SSL	decreasing	7	NA
MW-20	Barium	9/26/2019	SSL	decreasing	8	NA
MW-20	Barium	4/2/2020	SSL	decreasing	9	NA
MW-20	Barium	9/17/2020	SSL	decreasing	10	NA
MW-20	Barium	3/25/2021	SSL	decreasing	11	NA
MW-20	Barium	9/16/2021	SSL	decreasing	12	NA
MW-20	Barium	3/16/2022	SSL	decreasing	13	NA
MW-20	Barium	9/1/2022	SSL	decreasing	14	NA
MW-20	Barium	3/24/2023	SSL	decreasing	15	NA
MW-20	Barium	9/7/2023	SSL	decreasing	16	NA
MW-20	Barium	3/18/2024	SSL	decreasing	17	NA
MW-20	Barium	9/25/2024	SSL	decreasing	18	NA
MW-20	Barium	3/10/2025	SSL	decreasing	19	NA
MW-20	Barium	9/8/2025	SSL	decreasing	20	NA

Table 12 – Gas Monitoring Summary

Table 12
Page County Sanitary Landfill
73-SDP-01-75P
EXPLOSIVE GAS MONITORING

	3/10/2025	5/1/2025	9/8/2025	12/5/2025
	% LEL	% LEL	% LEL	% LEL
Office	0	0	0	0
Recycling Building	0	0	0	0
Equipment Building	0	0	0	0
Shop Building	0	0	0	0
GP-1	0	0	0	0
GP-2	0	0	0	0
GP-3	0	0	0	0
GP-4	0	0	0	0
GP-5	6.6	0	72.4	66.7
GP-5A	0	0	0	0
GWD-1	0	0	0	0
GWD-2	buried	buried	buried	buried
GWD-3	0	0	0	0
GWD-4	0	0	0	0

DNE - Did not exist

NM - Not measured

Elevated levels of gas in GP-5 addressed with installation of GP-5A

Appendix A

Field Sampling Forms

PAGE COUNTY SANITARY LANDFILL
PERMIT # 73-SDP-01-75P

3/10/2025

Sampled by: Glenn Hunter

Weather Conditions: Sunny, breezy, 45-75 degrees

IDNR Form 542-1322

Monitoring Well: MW-1D

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1185.49
Well Depth	34.55
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1185.49
Well Depth	34.55
Top Screen	1160.94
Bottom Screen	1150.94
Bottom Well	1150.94
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	28.00
Top sample	1157.49
Bottom sample	1153.49
Turbidity(NTU)	2.60

Date	Time	Water Level	Water Elevation	Notes
3/10/2025	11:41	23.55	1161.94	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.60
Appendix I	Metals	250	250		2.60
Appendix I	VOC	120	120		2.60
Full Appendix II	10 more containers	5620		5620	
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	5620	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1185.49	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	34.55	Before purging	3/10/2025	11:41	23.55	1161.94		0.0	
		After purging				1185.49			
		Top of Screen January 1990				1160.94			
						1.00			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1150.94			
		Bottom of Well	3/10/2025		34.55	1150.94			
						0.00			feet sedimentation
		Before Sampling				1185.49			
		Recovery				1185.49			
		Recovery				1185.49			
		Recovery				1185.49			
		Recovery				1185.49			

Monitoring Well: MW-3

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1145.59
Well Depth	39.75
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1145.59
Well Depth	39.75
Top Screen	1115.84
Bottom Screen	1105.84
Bottom Well	1105.84
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	33.00
Top sample	1112.59
Bottom sample	1108.59
Turbidity(NTU)	6.48

Date	Time	Water Level	Water Elevation	Notes
3/10/2025	12:32	20.89	1124.7	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		6.48
Appendix I	Metals	250	250		6.48
Appendix I	VOC	120	120		6.48
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1145.59	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	39.75	Before purging	3/10/2025	12:32	20.89	1124.70		0.0	
		After purging				1145.59			
		Top of Screen January 1990				1115.84			
						8.86			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1105.84			
		Bottom of Well	3/10/2025		39.75	1105.84			
						0.00			feet sedimentation
		Before Sampling				1145.59			
		Recovery				1145.59			
		Recovery				1145.59			
		Recovery				1145.59			
		Recovery				1145.59			

Monitoring Well: MW-7

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1118.81
Well Depth	31.82
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1118.81
Well Depth	31.82
Top Screen	1097.01
Bottom Screen	1087.01
Bottom Well	1086.99
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	26.00
Top sample	1092.81
Bottom sample	1088.81
Turbidity(NTU)	3.56

Date	Time	Water Level	Water Elevation	Notes
3/10/2025	14:12	19.85	1098.96	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		3.56
Appendix I	Metals	250	250		3.56
Appendix I	VOC	120	120		3.56
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1118.81	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	31.82	Before purging	3/10/2025	14:12	19.85	1098.96		0.0	
		After purging				1118.81			
		Top of Screen January 1990				1097.01			
						1.95			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1087.01			
		Bottom of Well	3/10/2025		31.82	1086.99			
						-0.02			feet sedimentation
		Before Sampling				1118.81			
		Recovery				1118.81			
		Recovery				1118.81			
		Recovery				1118.81			
		Recovery				1118.81			

Monitoring Well: MW-10
Background Well

Primary Sampling Method: No-Purge for Appendix I
Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1151.88
Well Depth	35.40
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1151.88
Well Depth	35.40
Top Screen	1126.48
Bottom Screen	1116.48
Bottom Well	1116.48
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	31.00
Top sample	1120.88
Bottom sample	1116.88
Turbidity(NTU)	11.40

Date	Time	Water Level	Water Elevation	Notes
3/10/2025	14:44	31.47	1120.41	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		11.40
Appendix I	Metals	250	250		11.40
Appendix I	VOC	120	120		11.40
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1151.88	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	35.40	Before purging	3/10/2025	14:44	31.47	1120.41		0.0	
		After purging				1151.88			
		Top of Screen January 1990				1126.48			
						-6.07			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1116.48			
		Bottom of Well	3/10/2025		35.40	1116.48			
						0.00			feet sedimentation
		Before Sampling				1151.88			
		Recovery				1151.88			
		Recovery				1151.88			
		Recovery				1151.88			
		Recovery				1151.88			

Monitoring Well: MW-44
Background Well

Primary Sampling Method: No-Purge for Appendix I
Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1166.36
Well Depth	47.18
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1166.36
Well Depth	47.18
Top Screen	1129.18
Bottom Screen	1119.18
Bottom Well	1119.18
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	41.00
Top sample	1125.36
Bottom sample	1121.36
Turbidity(NTU)	1.93

Date	Time	Water Level	Water Elevation	Notes
3/10/2025	11:55	14.64	1151.72	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.93
Appendix I	Metals	250	250		1.93
Appendix I	VOC	120	120		1.93
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1166.36	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	47.18	Before purging	3/10/2025	11:55	14.64	1151.72		0.0	
		After purging				1166.36			
		Top of Screen January 1990				1129.18			
						22.54			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1119.18			
		Bottom of Well	3/10/2025		47.18	1119.18			
						0.00			feet sedimentation
		Before Sampling				1166.36			
		Recovery				1166.36			
		Recovery				1166.36			
		Recovery				1166.36			
		Recovery				1166.36			

Monitoring Well: MW-13

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1127.99
Well Depth	42.88
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1127.99
Well Depth	42.88
Top Screen	1095.11
Bottom Screen	1085.11
Bottom Well	1085.11
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	36.00
Top sample	1091.99
Bottom sample	1087.99
Turbidity(NTU)	1.66

Date	Time	Water Level	Water Elevation	Notes
3/10/2025	13:44	17.67	1110.32	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.66
Appendix I	Metals	250	250		1.66
Appendix I	VOC	120	120		1.66
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1127.99	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	42.88	Before purging	3/10/2025	13:44	17.67	1110.32		0.0	
		After purging				1127.99			
		Top of Screen January 1990				1095.11			
						15.21			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1085.11			
		Bottom of Well	3/10/2025		42.88	1085.11			
						0.00			feet sedimentation
		Before Sampling				1127.99			
		Recovery				1127.99			
		Recovery				1127.99			
		Recovery				1127.99			
		Recovery				1127.99			

Monitoring Well: MW-14

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1095.66
Well Depth	22.75
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1095.66
Well Depth	22.75
Top Screen	1082.91
Bottom Screen	1072.91
Bottom Well	1072.91
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	16.00
Top sample	1079.66
Bottom sample	1075.66
Turbidity(NTU)	3.55

Date	Time	Water Level	Water Elevation	Notes
3/10/2025	13:32	10.16	1085.5	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		3.55
Appendix I	Metals	250	250		3.55
Appendix I	VOC	120	120		3.55
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1095.66	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	22.75	Before purging	3/10/2025	13:32	10.16	1085.50		0.0	
		After purging				1095.66			
		Top of Screen January 1990				1082.91			
						2.59			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1072.91			
		Bottom of Well	3/10/2025		22.75	1072.91			
						0.00			feet sedimentation
		Before Sampling				1095.66			
		Recovery				1095.66			
		Recovery				1095.66			
		Recovery				1095.66			
		Recovery				1095.66			

Monitoring Well: MW-16

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1099.36
Well Depth	40.00
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1099.36
Well Depth	40.00
Top Screen	1069.36
Bottom Screen	1059.66
Bottom Well	1059.36
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	34.00
Top sample	1065.36
Bottom sample	1061.36
Turbidity(NTU)	21.40

Date	Time	Water Level	Water Elevation	Notes
3/10/2025	12:59	11.00	1088.36	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		21.40
Appendix I	Metals	250	250		21.40
Appendix I	VOC	120	120		21.40
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1099.36	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	40.00	Before purging	3/10/2025	12:59	11.00	1088.36		0.0	
		After purging				1099.36			
		Top of Screen January 1990				1069.36			
						19.00			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1059.66			
		Bottom of Well	3/10/2025		40.00	1059.36			
						-0.30			feet sedimentation
		Before Sampling				1099.36			
		Recovery				1099.36			
		Recovery				1099.36			
		Recovery				1099.36			
		Recovery				1099.36			

Monitoring Well: MW-17

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1159.5
Well Depth	47.50
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1159.5
Well Depth	47.50
Top Screen	1122.00
Bottom Screen	1112.00
Bottom Well	1112.00
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	41.00
Top sample	1118.50
Bottom sample	1114.50
Turbidity(NTU)	1.33

Date	Time	Water Level	Water Elevation	Notes
3/10/2025	12:18	19.30	1140.20	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.33
Appendix I	Metals	250	250		1.33
Appendix I	VOC	120	120		1.33
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1159.5	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	47.50	Before purging	3/10/2025	12:18	19.30	1140.20		0.0	
		After purging				1159.50			
		Top of Screen January 1990				1122.00			
						18.20			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1112.00			
		Bottom of Well	3/10/2025		47.50	1112.00			
						0.00			feet sedimentation
		Before Sampling				1159.50			
		Recovery				1159.50			
		Recovery				1159.50			
		Recovery				1159.50			
		Recovery				1159.50			

Monitoring Well: MW-18

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1130.69
Well Depth	27.60
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1130.69
Well Depth	27.60
Top Screen	1118.09
Bottom Screen	1103.09
Bottom Well	1103.09
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	21.00
Top sample	1109.69
Bottom sample	1105.69
Turbidity(NTU)	3.02

Date	Time	Water Level	Water Elevation	Notes
3/10/2025	12:45	17.69	1113.00	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		3.02
Appendix I	Metals	250	250		3.02
Appendix I	VOC	120	120		3.02
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1130.69	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	27.60	Before purging	3/10/2025	12:45	17.69	1113.00		0.0	
		After purging				1130.69			
		Top of Screen January 1990				1118.09			
						-5.09	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				1103.09			
		Bottom of Well	3/10/2025		27.60	1103.09			
						0.00	feet sedimentation		
		Before Sampling				1130.69			
		Recovery				1130.69			
		Recovery				1130.69			
		Recovery				1130.69			
		Recovery				1130.69			

Monitoring Well: MW-19R

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1131.46
Well Depth	29.65
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1131.46
Well Depth	29.65
Top Screen	1112.26
Bottom Screen	1102.26
Bottom Well	1101.81
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	20.00
Top sample	1111.46
Bottom sample	1107.46
Turbidity(NTU)	1.50

Date	Time	Water Level	Water Elevation	Notes
3/10/2025	13:58	20.20	1111.26	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.50
Appendix I	Metals	250	250		1.50
Appendix I	VOC	120	120		1.50
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1131.46	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	29.65	Before purging	3/10/2025	13:58	20.20	1111.26		0.0	
		After purging				1131.46			
		Top of Screen January 1990				1112.26			
						-1.00	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				1102.26			
		Bottom of Well	3/10/2025		24.75	1106.71			
						4.45	feet sedimentation		
		Before Sampling				1131.46			
		Recovery				1131.46			
		Recovery				1131.46			
		Recovery				1131.46			
		Recovery				1131.46			

Monitoring Well: MW-20

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1122.96
Well Depth	25.30
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1122.96
Well Depth	25.30
Top Screen	1107.66
Bottom Screen	1097.66
Bottom Well	1097.66
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	19.00
Top sample	1103.96
Bottom sample	1099.96
Turbidity(NTU)	5.38

Date	Time	Water Level	Water Elevation	Notes
3/10/2025	14:26	18.31	1104.65	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		5.38
Appendix I	Metals	250	250		5.38
Appendix I	VOC	120	120		5.38
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1122.96	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	25.30	Before purging	3/10/2025	14:26	18.31	1104.65		0.0	
		After purging				1122.96			
		Top of Screen January 1990				1107.66			
						-3.01	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				1097.66			
		Bottom of Well	3/10/2025		25.30	1097.66			
						0.00	feet sedimentation		
		Before Sampling				1122.96			
		Recovery				1122.96			
		Recovery				1122.96			
		Recovery				1122.96			
		Recovery				1122.96			

Monitoring Well: MW-53

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1107.26
Well Depth	30.40
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1107.26
Well Depth	30.40
Top Screen	1087.31
Bottom Screen	1077.31
Bottom Well	1076.86
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	24.00
Top sample	1083.26
Bottom sample	1079.26
Turbidity(NTU)	2.08

Date	Time	Water Level	Water Elevation	Notes
3/10/2025	15:02	12.42	1094.84	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.08
Appendix I	Metals	250	250		2.08
Appendix I	VOC	120	120		2.08
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1107.26	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	30.40	Before purging	3/10/2025	15:02	12.42	1094.84		0.0	
		After purging				1107.26			
		Top of Screen January 1990				1087.31			
						7.53			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1077.31			
		Bottom of Well	3/10/2025		30.40	1076.86			
						-0.45			feet sedimentation
		Before Sampling				1107.26			
		Recovery				1107.26			
		Recovery				1107.26			
		Recovery				1107.26			
		Recovery				1107.26			

IDNR Form 542-1324

GWD-1	Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter
	3/10/2025	13:12	Underdrain tile outlet	yes	1 gpm		No	No	No
									Turbidity (NTU)
									61.8

Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter
3/10/2025		Underdrain tile outlet	Not Found	dry		No	No	No
								Turbidity (NTU)

Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter
3/10/2025	15:14	Underdrain tile outlet	yes	250 mL/10 sec		No	No	No
								Turbidity (NTU)
								1.81

GWD-4	Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter
	3/10/2025	15:23	Underdrain tile outlet	yes	250 mL/10 sec		No	No	No
									Turbidity (NTU)
									2.05

PAGE COUNTY SANITARY LANDFILL
PERMIT # 73-SDP-01-75P

9/8/2025

Sampled by: Todd Whipple

Weather Conditions: Sunny, breezy, 68-77 degrees

IDNR Form 542-1322

Monitoring Well: MW-1D

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1185.49
Well Depth	34.55
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1185.49
Well Depth	34.55
Top Screen	1160.94
Bottom Screen	1150.94
Bottom Well	1150.94
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	28.00
Top sample	1157.49
Bottom sample	1153.49
Turbidity(NTU)	2.00

Date	Time	Water Level	Water Elevation	Notes
9/8/2025	15:04	19.69	1165.8	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.00
Appendix I	Metals	250	250		2.00
Appendix I	VOC	120	120		2.00
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1185.49	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	34.55	Before purging	9/8/2025	15:04	19.69	1165.80		0.0	
		After purging				1185.49			
		Top of Screen January 1990				1160.94			
						4.86			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1150.94			
		Bottom of Well	9/8/2025		34.55	1150.94			
						0.00			feet sedimentation
		Before Sampling				1185.49			
		Recovery				1185.49			
		Recovery				1185.49			
		Recovery				1185.49			
		Recovery				1185.49			

Monitoring Well: MW-3

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1145.59
Well Depth	39.75
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1145.59
Well Depth	39.75
Top Screen	1115.84
Bottom Screen	1105.84
Bottom Well	1105.84
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	34.00
Top sample	1111.59
Bottom sample	1107.59
Turbidity(NTU)	1.79

Date	Time	Water Level	Water Elevation	Notes
9/8/2025	15:51	21.90	1123.69	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.79
Appendix I	Metals	250	250		1.79
Appendix I	VOC	120	120		1.79
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1145.59	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	39.75	Before purging	9/8/2025	15:51	21.90	1123.69		0.0	
		After purging				1145.59			
		Top of Screen January 1990				1115.84			
						7.85			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1105.84			
		Bottom of Well	9/8/2025		39.75	1105.84			
						0.00			feet sedimentation
		Before Sampling				1145.59			
		Recovery				1145.59			
		Recovery				1145.59			
		Recovery				1145.59			
		Recovery				1145.59			

Monitoring Well: MW-7

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1118.81
Well Depth	31.82
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1118.81
Well Depth	31.82
Top Screen	1097.01
Bottom Screen	1087.01
Bottom Well	1086.99
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	26.00
Top sample	1092.81
Bottom sample	1088.81
Turbidity(NTU)	63.62

Date	Time	Water Level	Water Elevation	Notes
9/8/2025	17:40	20.48	1098.33	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		63.62
Appendix I	Metals	250	250		63.62
Appendix I	VOC	120	120		63.62
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1118.81	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	31.82	Before purging	9/8/2025	17:40	20.48	1098.33		0.0	
		After purging				1118.81			
		Top of Screen January 1990				1097.01			
						1.32			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1087.01			
		Bottom of Well	9/8/2025		31.82	1086.99			
						-0.02			feet sedimentation
		Before Sampling				1118.81			
		Recovery				1118.81			
		Recovery				1118.81			
		Recovery				1118.81			
		Recovery				1118.81			

Monitoring Well: MW-10
Background Well

Primary Sampling Method: No-Purge for Appendix I
Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1151.88
Well Depth	35.40
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1151.88
Well Depth	35.40
Top Screen	1126.48
Bottom Screen	1116.48
Bottom Well	1116.48
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	33.00
Top sample	1118.88
Bottom sample	1114.88
Turbidity(NTU)	1.90

Date	Time	Water Level	Water Elevation	Notes
9/8/2025	14:39	31.89	1119.99	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.90
Appendix I	Metals	250	250		1.90
Appendix I	VOC	120	120		1.90
Full Appendix II	10 more containers	5620		5620	
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	5620	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1151.88	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	35.40	Before purging	9/8/2025	14:39	31.89	1119.99		0.0	
		After purging				1151.88			
		Top of Screen January 1990				1126.48			
						-6.49			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1116.48			
		Bottom of Well	9/8/2025		35.40	1116.48			
						0.00			feet sedimentation
		Before Sampling				1151.88			
		Recovery				1151.88			
		Recovery				1151.88			
		Recovery				1151.88			
		Recovery				1151.88			

Monitoring Well: MW-44

Background Well

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1166.36
Well Depth	47.18
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1166.36
Well Depth	47.18
Top Screen	1129.18
Bottom Screen	1119.18
Bottom Well	1119.18
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	42.00
Top sample	1124.36
Bottom sample	1120.36
Turbidity(NTU)	10.30

Date	Time	Water Level	Water Elevation	Notes
9/8/2025	15:20	14.11	1152.25	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		10.30
Appendix I	Metals	250	250		10.30
Appendix I	VOC	120	120		10.30
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1166.36	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	47.18	Before purging	9/8/2025	15:20	14.11	1152.25		0.0	
		After purging				1166.36			
		Top of Screen January 1990				1129.18			
						23.07			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1119.18			
		Bottom of Well	9/8/2025		47.18	1119.18			
						0.00			feet sedimentation
		Before Sampling				1166.36			
		Recovery				1166.36			
		Recovery				1166.36			
		Recovery				1166.36			
		Recovery				1166.36			

Monitoring Well: MW-13

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1127.99
Well Depth	42.88
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1127.99
Well Depth	42.88
Top Screen	1095.11
Bottom Screen	1085.11
Bottom Well	1085.11
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	36.00
Top sample	1091.99
Bottom sample	1087.99
Turbidity(NTU)	1.00

Date	Time	Water Level	Water Elevation	Notes
9/8/2025	17:17	18.50	1109.49	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.00
Appendix I	Metals	250	250		1.00
Appendix I	VOC	120	120		1.00
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1127.99	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	42.88	Before purging	9/8/2025	17:17	18.50	1109.49		0.0	
		After purging				1127.99			
		Top of Screen January 1990				1095.11			
						14.38			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1085.11			
		Bottom of Well	9/8/2025		42.88	1085.11			
						0.00			feet sedimentation
		Before Sampling				1127.99			
		Recovery				1127.99			
		Recovery				1127.99			
		Recovery				1127.99			
		Recovery				1127.99			

Monitoring Well: MW-14

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1095.66
Well Depth	22.75
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1095.66
Well Depth	22.75
Top Screen	1082.91
Bottom Screen	1072.91
Bottom Well	1072.91
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	17.00
Top sample	1078.66
Bottom sample	1074.66
Turbidity(NTU)	1.97

Date	Time	Water Level	Water Elevation	Notes
9/8/2025	17:00	16.66	1079	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.97
Appendix I	Metals	250	250		1.97
Appendix I	VOC	120	120		1.97
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1095.66	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	22.75	Before purging	9/8/2025	17:00	16.66	1079.00		0.0	
		After purging				1095.66			
		Top of Screen January 1990				1082.91			
						-3.91			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1072.91			
		Bottom of Well	9/8/2025		22.75	1072.91			
						0.00			feet sedimentation
		Before Sampling				1095.66			
		Recovery				1095.66			
		Recovery				1095.66			
		Recovery				1095.66			
		Recovery				1095.66			

Monitoring Well: MW-16

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1099.36
Well Depth	40.00
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1099.36
Well Depth	40.00
Top Screen	1069.36
Bottom Screen	1059.66
Bottom Well	1059.36
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	34.00
Top sample	1065.36
Bottom sample	1061.36
Turbidity(NTU)	8.80

Date	Time	Water Level	Water Elevation	Notes
9/8/2025	16:16	14.09	1085.27	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		8.80
Appendix I	Metals	250	250		8.80
Appendix I	VOC	120	120		8.80
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1099.36	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	40.00	Before purging	9/8/2025	16:16	14.09	1085.27		0.0	
		After purging				1099.36			
		Top of Screen January 1990				1069.36			
						15.91			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1059.66			
		Bottom of Well	9/8/2025		40.00	1059.36			
						-0.30			feet sedimentation
		Before Sampling				1099.36			
		Recovery				1099.36			
		Recovery				1099.36			
		Recovery				1099.36			
		Recovery				1099.36			

Monitoring Well: MW-17

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1159.5
Well Depth	47.50
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1159.5
Well Depth	47.50
Top Screen	1122.00
Bottom Screen	1112.00
Bottom Well	1112.00
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	42.00
Top sample	1117.50
Bottom sample	1113.50
Turbidity(NTU)	1.71

Date	Time	Water Level	Water Elevation	Notes
9/8/2025	15:33	18.99	1140.51	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.71
Appendix I	Metals	250	250		1.71
Appendix I	VOC	120	120		1.71
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1159.5	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	47.50	Before purging	9/8/2025	15:33	18.99	1140.51		0.0	
		After purging				1159.50			
		Top of Screen January 1990				1122.00			
						18.51			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1112.00			
		Bottom of Well	9/8/2025		47.50	1112.00			
						0.00			feet sedimentation
		Before Sampling				1159.50			
		Recovery				1159.50			
		Recovery				1159.50			
		Recovery				1159.50			
		Recovery				1159.50			

Monitoring Well: MW-18

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1130.69
Well Depth	27.60
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1130.69
Well Depth	27.60
Top Screen	1118.09
Bottom Screen	1103.09
Bottom Well	1103.09
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	22.00
Top sample	1108.69
Bottom sample	1104.69
Turbidity(NTU)	2.19

Date	Time	Water Level	Water Elevation	Notes
9/8/2025	16:04	18.34	1112.35	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.19
Appendix I	Metals	250	250		2.19
Appendix I	VOC	120	120		2.19
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1130.69	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	27.60	Before purging	9/8/2025	16:04	18.34	1112.35		0.0	
		After purging				1130.69			
		Top of Screen January 1990				1118.09			
						-5.74	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				1103.09			
		Bottom of Well	9/8/2025		27.60	1103.09			
						0.00	feet sedimentation		
		Before Sampling				1130.69			
		Recovery				1130.69			
		Recovery				1130.69			
		Recovery				1130.69			
		Recovery				1130.69			

Monitoring Well: MW-19R

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1131.46
Well Depth	29.65
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1131.46
Well Depth	29.65
Top Screen	1112.26
Bottom Screen	1102.26
Bottom Well	1101.81
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	21.00
Top sample	1110.46
Bottom sample	1106.46
Turbidity(NTU)	1.04

Date	Time	Water Level	Water Elevation	Notes
9/8/2025	17:27	20.56	1110.90	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.04
Appendix I	Metals	250	250		1.04
Appendix I	VOC	120	120		1.04
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1131.46	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	29.65	Before purging	9/8/2025	17:27	20.56	1110.90		0.0	
		After purging				1131.46			
		Top of Screen January 1990				1112.26			
						-1.36			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1102.26			
		Bottom of Well	9/8/2025		24.75	1106.71			
						4.45			feet sedimentation
		Before Sampling				1131.46			
		Recovery				1131.46			
		Recovery				1131.46			
		Recovery				1131.46			
		Recovery				1131.46			

Monitoring Well: MW-20

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1122.96
Well Depth	25.30
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1122.96
Well Depth	25.30
Top Screen	1107.66
Bottom Screen	1097.66
Bottom Well	1097.66
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	20.00
Top sample	1102.96
Bottom sample	1098.96
Turbidity(NTU)	1.81

Date	Time	Water Level	Water Elevation	Notes
9/8/2025	17:54	18.81	1104.15	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.81
Appendix I	Metals	250	250		1.81
Appendix I	VOC	120	120		1.81
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1122.96	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	25.30	Before purging	9/8/2025	17:54	18.81	1104.15		0.0	
		After purging				1122.96			
		Top of Screen January 1990				1107.66			
						-3.51	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				1097.66			
		Bottom of Well	9/8/2025		25.30	1097.66			
						0.00	feet sedimentation		
		Before Sampling				1122.96			
		Recovery				1122.96			
		Recovery				1122.96			
		Recovery				1122.96			
		Recovery				1122.96			

Monitoring Well: MW-53

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1107.26
Well Depth	30.40
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1107.26
Well Depth	30.40
Top Screen	1087.31
Bottom Screen	1077.31
Bottom Well	1076.86
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	25.00
Top sample	1082.26
Bottom sample	1078.26
Turbidity(NTU)	1.10

Date	Time	Water Level	Water Elevation	Notes
9/8/2025	18:07	12.35	1094.91	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.10
Appendix I	Metals	250	250		1.10
Appendix I	VOC	120	120		1.10
Full Appendix II	10 more containers	5620			
Bis(2-EHP)	1 quart	946			
Sulfide	Sulfide	250			
Supplemental	Minerals	750	0		
Total			380	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	1107.26	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	30.40	Before purging	9/8/2025	18:07	12.35	1094.91		0.0	
		After purging				1107.26			
		Top of Screen January 1990				1087.31			
						7.60			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1077.31			
		Bottom of Well	9/8/2025		30.40	1076.86			
						-0.45			feet sedimentation
		Before Sampling				1107.26			
		Recovery				1107.26			
		Recovery				1107.26			
		Recovery				1107.26			
		Recovery				1107.26			

IDNR Form 542-1324

GWD-1	Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter
	9/8/2025	16:32	Underdrain tile outlet	yes	250 mL/12 sec		No	No	No
									Turbidity (NTU)
									1.71

Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter
9/8/2025		Underdrain tile outlet	Not Found	dry		No	No	No
								Turbidity (NTU)

Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter
9/8/2025	18:30	Underdrain tile outlet	yes	250 mL/25 sec		No	No	No
								Turbidity (NTU)
								1.07

GWD-4

Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter
9/8/2025	18:35	Underdrain tile outlet	yes	250 mL/15 sec		No	No	No
								Turbidity (NTU)
								20.7

Appendix B

Statistical Report

APPENDIX B.1 –1st Statistical Evaluation

GROUND WATER STATISTICS
FOR THE
PAGE COUNTY SANITARY LANDFILL

First Semi-Annual Monitoring Event in 2025

Prepared for:
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April 2025

INTRODUCTION

This report summarizes the results of the statistical analysis used to evaluate the ground water quality data obtained during the first semi-annual monitoring event in 2025 at the Page County Sanitary Landfill near Clarinda in Page County, Iowa. The statistical plan was designed to detect a release from the facility at the earliest indication so that it is protective of human health and the environment. Interwell statistics were used for comparison of the current data to background data at Page County Sanitary Landfill. The statistical plan conforms with IAC 567, Chapter 113.10, and the USEPA statistical guidance document (“*Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance*”, March 2009).

Ground Water Monitoring Program

The groundwater monitoring network for Page County Sanitary Landfill (PCSL) includes upgradient wells MW-1, MW-17, and MW-44 and downgradient wells MW-1D, MW-3, MW-7, MW-10, MW-11, MW-13, MW-14, MW-16, MW-18, MW-19R, MW-20, MW-53, GWD-1, GWD-3, and GWD-4. Each of the groundwater monitoring wells is to be sampled at least semiannually and analyzed for the detection monitoring parameters listed in 113.10(5), which includes 15 inorganic constituents and 47 organic compounds, summarized in Table 1 below.

Table 1: Detection monitoring constituents listed in Appendix I of IAC 567, Chapter 113.

Organic Compounds:

Acetone	<i>trans</i> -1,4-Dichloro-2-butene	Iodomethane
Acrylonitrile	1,1-Dichloroethane	4-Methyl-2-pentanone
Benzene	1,2-Dichloroethane	Styrene
Bromochloromethane	1,1-Dichloroethene	1,1,1,2-Tetrachloroethane
Bromodichloromethane	<i>cis</i> -1,2-Dichloroethene	1,1,2,2-Tetrachloroethane
Bromoform	<i>trans</i> -1,2-Dichloroethene	Tetrachloroethene
Carbon disulfide	1,2-Dichloropropane	Toluene
Carbon tetrachloride	<i>cis</i> -1,3-Dichloropropene	1,1,1-Trichloroethane
Chlorobenzene	<i>trans</i> -1,3-Dichloropropene	1,1,2-Trichloroethane
Chloroethane	Ethylbenzene	Trichloroethene
Chloroform	2-Hexanone	Trichlorofluoromethane
Dibromochloromethane	Bromomethane	1,2,3-Trichloropropane
1,2-Dibromo-3-chloropropane	Chloromethane	Vinyl acetate
1,2-Dibromoethane	Dibromomethane	Vinyl chloride
1,2-Dichlorobenzene	Methylene chloride	Xylenes (Total)
1,4-Dichlorobenzene	2-Butanone	

Inorganic constituents:

Antimony, Total	Chromium, Total	Selenium, Total
Arsenic, Total	Cobalt, Total	Silver, Total
Barium, Total	Copper, Total	Thallium, Total
Beryllium, Total	Lead, Total	Vanadium, Total
Cadmium, Total	Nickel, Total	Zinc, Total

The ground water data obtained during the first semi-annual monitoring events in 2025 are summarized in Attachment A.

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

IAC 567, Chapter 113.10(4) provides several options for statistically evaluating the ground water data at those wells that monitor the open cells or contiguous MSWLF units. The preferred methods for comparing ground water data are using either prediction limits or using control charts. The interwell method was applied to the Page County Landfill data using the DUMPStat® statistical program. DUMPStat® is a program for the statistical analysis of groundwater monitoring data using methods described in “Statistical Methods for Groundwater Monitoring” by Dr. Robert D. Gibbons. DUMPStat is completely consistent with all USEPA regulations and guidance and the ASTM D6312-98 guidance.

Ground water statistics are to be done on the inorganic constituents listed. The organic constituents are compared to maximum contaminant levels (MCLs) or practical quantitation limits (PQLs), in lieu of statistical comparisons to historical concentrations.

Interwell Statistics: Upgradient versus Downgradient Comparisons

Interwell statistics are appropriate when the upgradient and downgradient wells monitor the same ground water formation and there is similar variability in the upgradient and downgradient zones. Site prediction limits are determined by pooling the historical ground water data from hydraulically upgradient wells. This statistical method compares the current downgradient determinations to site prediction limits and checks for exceedances. The type of prediction limit utilized (e.g., parametric or nonparametric) is based on the detection frequency and the data distribution of each parameter in the background data. The distribution of the background data is tested for normality using the Shapiro-Wilk test (Gibbons, 1994 and USEPA 1992). If the constituent is normally distributed, a normal prediction limit is used. If normality is rejected by the Shapiro-Wilk test, the background data is transformed by taking the natural logarithm. The Shapiro-Wilk test is then reapplied on the transformed data. If it is not rejected, lognormal prediction limits are used. If after transforming the data, normality is still rejected, nonparametric prediction limits are used for that analyte. The nonparametric prediction limit is the largest determination in the background measurements. For constituents where the background detection frequency is greater than 0% but less than 50%, nonparametric prediction limits can be used. If the detection frequency is 0% after thirteen samples have been collected, the practical quantitation limit (PQL) becomes the nonparametric prediction limit.

Results of the Interwell Statistics

The background data used in this statistical analysis includes the ground water data collected from ground water wells MW-1, MW-17, and MW-44 during the period from September 2014, when the sampling protocol changed, through the current data. Monitoring well MW-44 was recently added as an upgradient sample point. A summary of the background data from monitoring wells MW-1, MW-17, and MW-44, used to determine the site prediction limits, is listed in Attachment B, Table 1 “Upgradient Data”. This statistical method compares the current downgradient determinations to site prediction limits and checks for exceedances.

Table 2 “Most Current Downgradient Monitoring Data”, summarizes the current data from downgradient wells GWD-1, GWD-3, GWD-4, MW-10, MW-13, MW-14, MW-16, MW-18, MW-19R, MW-1D, MW-

20, MW-3, MW-53, and MW-7 compared to the site prediction limits. Prediction limit exceedances are flagged with asterisks. For the most current data, the site prediction limit exceedances detected are summarized in the table below.

Trace Metal Prediction Limit Exceedances during the First Semi-Annual Monitoring Event in 2025

Well	Trace Metal Detected	Result, µg/L	Prediction Limit, µg/L	Prediction Limit Type	Verified/ Awaiting verification
GWD-3	Zinc	120	32.0000	Nonparametric	Awaiting verification
GWD-4	Zinc	58.9	32.0000	Nonparametric	Verified
MW-10	Arsenic	10.8	5.6000	Nonparametric	Awaiting verification
MW-13	Cadmium	2.6	1.4000	Nonparametric	Awaiting verification
MW-16	Arsenic	24.0	5.6000	Nonparametric	Verified
MW-18	Arsenic	31.2	5.6000	Nonparametric	Verified
	Copper	16.2	11.6000	Nonparametric	Awaiting verification
MW-20	Arsenic	54.9	5.6000	Nonparametric	Verified
	Barium	1640	748.3411	Normal	Verified
	Copper	26.4	11.6000	Nonparametric	Awaiting verification
	Zinc	44.9	32.0000	Nonparametric	Awaiting verification
MW-3	Cadmium	2.1	1.4000	Nonparametric	Awaiting verification
MW-7	Arsenic	6.6	5.6000	Nonparametric	Verified
	Cadmium	1.7	1.4000	Nonparametric	Awaiting verification

The detection frequencies of the parameters in the up and down gradient monitoring wells are summarized in Table 3. Table 4 summarizes the results of the Shapiro-Wilk test. Table 5 is a summary of the statistics and prediction limits determined for the metals. Time series graphs of each of the parameters at each well with the corresponding prediction limits are attached.

A statistical power curve indicates the expected false assessments for the site as a whole. The false positive rate for interwell analyses is the percentage of failures when the upgradient versus downgradient true mean difference equals zero. False negative rate indicates the chance of missing contamination at a single well for a single constituent. The statistical power is a function of the number of wells included, the number of constituents compared, the detection frequencies, and the data distributions involved. For interwell analysis, the site-wide false positive rate is 4% and the test becomes sensitive to 4 standard deviation unit increases over background.

The past and current metals exceedances were evaluated against the ground water protection standards (GWPS) using confidence limits calculated in accordance with the Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance, USEPA, March 2009 (Attachment C). The analysis was conducted to evaluate whether verified concentrations are significantly above the water quality standard. The 95% lower confidence limit (LCL) for the mean of the historical data was used to evaluate whether the regulated unit is in compliance with the ground-water protection standards under 40 CFR 264

(e.g. whether the verified constituent is detected at a significant level above the GWPS). An exceedance is verified if the LCL is above the Regulatory GWPS.

The 95% LCL for arsenic at MW-18 (21.086 µg/L) exceeds the USEPA MCL of 10 µg/L.

The 95% LCL for arsenic at MW-20 (37.725 µg/L) exceeds the USEPA MCL of 10 µg/L.

The 95% LCL for cobalt at MW-20 (6.270 µg/L) exceeds the Iowa Statewide Standard of 2.1 µg/L, though the current concentration (7.2 µg/L) is below the site prediction limit of 30.6 µg/L.

The 95% LCL for cobalt at MW-7 (8.380 µg/L) exceeds the Iowa Statewide Standard of 2.1 µg/L, though the current concentration (12.0 µg/L) is below the site prediction limit of 30.6 µg/L.

The remainder of the calculated 95% LCLs are below the respective GWPS.

Volatile Organic Compounds

Volatile Organic Compounds (VOCs) are generally man-made compounds not present in ambient ground water. If VOCs are detected above their statistical limit (i.e., the laboratory PQL or reporting limit), a verification resample will be conducted at the next scheduled sampling event. A statistical exceedance will be indicated if the VOC detection is confirmed by the subsequent monitoring.

The 47 volatile organic compounds (VOCs) included in Appendix A were compared to site-specific limits in lieu of statistical comparisons. VOCs detected in the ground water at Page County Sanitary Landfill during the first semi-annual monitoring event in 2025 are summarized in the table below.

VOCs detected at Page County Landfill during the first semi-annual monitoring event in 2025

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting Verification	Groundwater Standard, µg/L
MW-10	Bis(2-ethyhexyl)phthalate	10.0	6	Awaiting Verification	6 ^a
MW-16	1,1-Dichloroethane	1.2	1	Awaiting Verification	140 ^b
	1,4-Dichlorobenzene	1.2	1	Awaiting Verification	75 ^a
	Benzene	1.1	1	Awaiting Verification	5 ^a
	Chlorobenzene	2.7	1	Verified	100 ^a
	cis-1,2-Dichloroethene	1.3	1	Awaiting Verification	70 ^a
MW-19R	1,1-Dichloroethane	2.7	1	Verified	140 ^b
	cis-1,2-Dichloroethene	2.0	1	Verified	70 ^a
MW-20	Benzene	1.1	1	Verified	5 ^a

a - USEPA MCL

b – Iowa Statewide Standard

Many of the VOCs detected have been detected previously, but were not detected in the previous monitoring in September 2024. The VOCs detected are typically associated with landfill gas migration. The detections are low-level and do not exceed ground water quality standards. Historical VOC detections in the ground water are summarized in Attachment D. The verified VOC detections were evaluated against the GWPS using confidence limits. The results are shown in Attachment E. The 95% LCLs for each of the verified VOC detections are below ground water quality standards.

Attachment A

Summary of the Data obtained during the First Semi-Annual Monitoring event in 2025

Table 1

Analytical Data Summary for 3/10/2025 to 3/11/2025

Constituents	Units	GWD-1	GWD-3	GWD-4	MW-10	MW-13	MW-14	MW-16	MW-17	MW-18	MW-19R	MW-1D	MW-20	MW-3	MW-44	MW-53	MW-7
(3+4)-methylphenol	ug/L											<8					
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L											<1					
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L											<8					
1,2,4-trichlorobenzene	ug/L											<1					
1,2-dibromo-3-chloropropane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene	ug/L											<8					
1,3,5-trinitrobenzene	ug/L											<8					
1,3-dichlorobenzene	ug/L											<1					
1,3-dichloropropane	ug/L											<1					
1,3-dinitrobenzene	ug/L											<8					
1,4-dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone	ug/L											<8					
1,4-phenylenediamine	ug/L											<8					
1-naphthylamine	ug/L											<8					
2,2-dichloropropane	ug/L											<1					
2,3,4,6-tetrachlorophenol	ug/L											<8					
2,4,5-t	ug/L											<5					
2,4,5-tp (silvex)	ug/L											<5					
2,4,5-trichlorophenol	ug/L											<8					
2,4,6-trichlorophenol	ug/L											<8					
2,4-d	ug/L											<2					
2,4-dichlorophenol	ug/L											<8					
2,4-dimethylphenol	ug/L											<8					
2,4-dinitrophenol	ug/L											<8					
2,4-dinitrotoluene	ug/L											<8					
2,6-dichlorophenol	ug/L											<8					
2,6-dinitrotoluene	ug/L											<8					
2-acetylaminofluorene	ug/L											<8					
2-butanone (mek)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10	<10
2-chloronaphthalene	ug/L											<8					
2-chlorophenol	ug/L											<8					
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L											<8					
2-methylphenol	ug/L											<8					
2-naphthylamine	ug/L											<8					
2-nitroaniline	ug/L											<8					
2-nitrophenol	ug/L											<8					
3,3'-dichlorobenzidine	ug/L											<8					
3,3'-dimethylbenzidine	ug/L											<8					
3-methylcholanthrene	ug/L											<8					
3-nitroaniline	ug/L											<8					
4,4'-ddd	ug/L											<.05					
4,4'-dde	ug/L											<.05					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 3/10/2025 to 3/11/2025

Constituents	Units	GWD-1	GWD-3	GWD-4	MW-10	MW-13	MW-14	MW-16	MW-17	MW-18	MW-19R	MW-1D	MW-20	MW-3	MW-44	MW-53	MW-7
4,4'-ddt	ug/L											<.05					
4,6-dinitro-2-methylphenol	ug/L											<.8					
4-aminobiphenyl	ug/L											<.8					
4-bromophenyl phenyl ether	ug/L											<.8					
4-chloro-3-methylphenol	ug/L											<.8					
4-chloroaniline	ug/L											<.8					
4-chlorophenyl phenyl ether	ug/L											<.8					
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	ug/L											<.8					
4-nitrophenol	ug/L											<.8					
5-nitro-o-toluidine	ug/L											<.8					
7,12-dimethylbenz(a)anthracene	ug/L											<.8					
Acenaphthene	ug/L											<.8					
Acenaphthylene	ug/L											<.8					
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10
Acetonitrile	ug/L											<10					
Acetophenone	ug/L											<.8					
Acrolein	ug/L											<10					
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin	ug/L											<.05					
Allyl chloride	ug/L											<1					
Alpha-bhc	ug/L											<.05					
Anthracene	ug/L											<.8					
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L											<.2					
Arochlor 1221	ug/L											<.2					
Arochlor 1232	ug/L											<.2					
Arochlor 1242	ug/L											<.2					
Arochlor 1248	ug/L											<.2					
Arochlor 1254	ug/L											<.2					
Arochlor 1260	ug/L											<.2					
Arsenic, total	ug/L	<4.0	<4.0	<4.0	10.8	<4.0	<4.0	24.0	<4.0	31.2	<4.0	<4.0	54.9	<4.0	<4.0	<4.0	6.6
Azobenzene	ug/L											<.8					
Barium, total	ug/L	219.0	258.0	229.0	494.0	63.1	135.0	697.0	84.7	393.0	259.0	704.0	1640.0	320.0	123.0	79.3	344.0
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene	ug/L											<.8					
Benzo(a)pyrene	ug/L											<.8					
Benzo(b)fluoranthene	ug/L											<.8					
Benzo(g,h,i)perylene	ug/L											<.8					
Benzo(k)fluoranthene	ug/L											<.8					
Benzyl alcohol	ug/L											<.8					
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc	ug/L											<.05					
Bis (2-chloroethoxy) methane	ug/L											<.8					
Bis(2-chloroethyl) ether	ug/L											<.8					
Bis(2-chloroisopropyl) ether	ug/L											<.8					
Bis(2-ethylhexyl) phthalate	ug/L				10							<.6					
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	ug/L											<.8					
Cadmium, total	ug/L	<.8	<.8	<.8	1.1	2.6	<.8	1.1	<.8	<.8	<.8	<.8	1.4	2.1	<.8	<.8	1.7
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 3/10/2025 to 3/11/2025

Constituents	Units	GWD-1	GWD-3	GWD-4	MW-10	MW-13	MW-14	MW-16	MW-17	MW-18	MW-19R	MW-1D	MW-20	MW-3	MW-44	MW-53	MW-7
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L											<1					
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzilate	ug/L											<8					
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene	ug/L											<1					
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene	ug/L											<8					
Cis-1,2-dichloroethylene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	.9	<4	<4	.9	<4	<4	.9	<4	.8	1.3	8.7	7.2	<4	<4	<4	12.0
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	16.2	<4.0	<4.0	26.4	<4.0	<4.0	<4.0	<4.0
Cyanide, total	mg/L											<.01					
Delta-bhc	ug/L											<.05					
Diallate	ug/L											<8					
Dibenzo(a,h)anthracene	ug/L											<8					
Dibenzofuran	ug/L											<8					
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L											<1					
Dieldrin	ug/L											<.05					
Diethyl phthalate	ug/L											<8					
Dimethoate	ug/L											<.4					
Dimethylphthalate	ug/L											<8					
Di-n-butyl phthalate	ug/L											<8					
Di-n-octyl phthalate	ug/L											<8					
Dinoseb	ug/L											<.5					
Diphenylamine	ug/L											<8					
Disulfoton	ug/L											<.4					
Endosulfan i	ug/L											<.05					
Endosulfan ii	ug/L											<.05					
Endosulfan sulfate	ug/L											<.05					
Endrin	ug/L											<.05					
Endrin aldehyde	ug/L											<.05					
Ethyl methacrylate	ug/L											<10					
Ethyl methanesulfonate	ug/L											<8					
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L											<.4					
Fluoranthene	ug/L											<8					
Fluorene	ug/L											<8					
Gamma-bhc (lindane)	ug/L											<.05					
Heptachlor	ug/L											<.05					
Heptachlor epoxide	ug/L											<.05					
Hexachlorobenzene	ug/L											<.05					
Hexachlorobutadiene	ug/L											<8					
Hexachlorocyclopentadiene	ug/L											<8					
Hexachloroethane	ug/L											<8					
Hexachloropropene	ug/L											<8					
Indeno(1,2,3-cd)pyrene	ug/L											<8					
Isobutanol	mg/L											<1					
Isodrin	ug/L											<8					
Isophorone	ug/L											<8					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 3/10/2025 to 3/11/2025

Constituents	Units	GWD-1	GWD-3	GWD-4	MW-10	MW-13	MW-14	MW-16	MW-17	MW-18	MW-19R	MW-1D	MW-20	MW-3	MW-44	MW-53	MW-7
Isosafrole	ug/L											<8					
Kepone	ug/L											<8					
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total	ug/L											<.5					
Methacrylonitrile	ug/L											<1					
Methapyrilene	ug/L											<8					
Methoxychlor	ug/L											<.05					
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1
Methyl methacrylate	ug/L											<1					
Methyl methanesulfonate	ug/L											<8					
Methyl parathion	ug/L											<.4					
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L											<8					
Nickel, total	ug/L	<4.0	<4.0	<4.0	5.4	5.2	4.3	27.8	<4.0	8.2	9.7	20.0	20.9	<4.0	<4.0	<4.0	18.4
Nitrobenzene	ug/L											<8					
N-nitrosodiethylamine	ug/L											<8					
N-nitrosodimethylamine	ug/L											<8					
N-nitrosodi-n-butylamine	ug/L											<8					
N-nitroso-di-n-propylamine	ug/L											<8					
N-nitrosodiphenylamine	ug/L											<8					
N-nitrosomethylethylamine	ug/L											<8					
N-nitrosopiperidine	ug/L											<8					
N-nitrosopyrrolidine	ug/L											<8					
O,o,o-triethyl phosphorothioate	ug/L											<.4					
O-toluidine	ug/L											<8					
Parathion	ug/L											<.4					
P-dimethylaminoazobenzene	ug/L											<8					
Pentachlorobenzene	ug/L											<8					
Pentachloronitrobenzene (pcnb)	ug/L											<8					
Pentachlorophenol	ug/L											<8					
Phenacetin	ug/L											<8					
Phenanthrene	ug/L											<8					
Phenol	ug/L											<8					
Phorate	ug/L											<.4					
Pronamide	ug/L											<8					
Propionitrile	ug/L											<10					
Pyrene	ug/L											<8					
Safrole	ug/L											<8					
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L											<.1					
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Thionazin	ug/L											<.4					
Tin, total	ug/L											<20					
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L											<.2					
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 3/10/2025 to 3/11/2025

Constituents	Units	GWD-1	GWD-3	GWD-4	MW-10	MW-13	MW-14	MW-16	MW-17	MW-18	MW-19R	MW-1D	MW-20	MW-3	MW-44	MW-53	MW-7
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<20.0	120.0	58.9	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	44.9	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Attachment B

Summary Tables and Graphs for the Interwell Comparisons

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW-1	09/17/2014	ND	2.0000		
Antimony, total	ug/L	MW-1	04/28/2015	ND	2.0000		
Antimony, total	ug/L	MW-1	10/06/2015	ND	2.0000		
Antimony, total	ug/L	MW-1	04/23/2016	ND	2.0000		
Antimony, total	ug/L	MW-1	09/01/2016	ND	2.0000		
Antimony, total	ug/L	MW-1	03/21/2017	ND	2.0000		
Antimony, total	ug/L	MW-1	10/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-1	03/09/2018	ND	2.0000		
Antimony, total	ug/L	MW-1	09/06/2018	ND	2.0000		
Antimony, total	ug/L	MW-1	03/07/2019	ND	2.0000		
Antimony, total	ug/L	MW-1	09/26/2019	ND	2.0000		
Antimony, total	ug/L	MW-1	04/02/2020	ND	2.0000		
Antimony, total	ug/L	MW-1	09/17/2020	ND	2.0000		
Antimony, total	ug/L	MW-1	03/25/2021	ND	2.0000		
Antimony, total	ug/L	MW-1	09/16/2021	ND	2.0000		
Antimony, total	ug/L	MW-1	03/16/2022	ND	2.0000		
Antimony, total	ug/L	MW-1	09/01/2022	ND	2.0000		
Antimony, total	ug/L	MW-1	03/24/2023	ND	2.0000		
Arsenic, total	ug/L	MW-1	09/17/2014		5.6000		
Arsenic, total	ug/L	MW-1	04/28/2015	ND	4.0000		
Arsenic, total	ug/L	MW-1	10/06/2015	ND	4.0000		
Arsenic, total	ug/L	MW-1	04/23/2016	ND	4.0000		
Arsenic, total	ug/L	MW-1	09/01/2016	ND	4.0000		
Arsenic, total	ug/L	MW-1	03/21/2017	ND	4.0000		
Arsenic, total	ug/L	MW-1	10/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-1	03/09/2018	ND	4.0000		
Arsenic, total	ug/L	MW-1	09/06/2018	ND	4.0000		
Arsenic, total	ug/L	MW-1	03/07/2019	ND	4.0000		
Arsenic, total	ug/L	MW-1	09/26/2019	ND	4.0000		
Arsenic, total	ug/L	MW-1	04/02/2020	ND	4.0000		
Arsenic, total	ug/L	MW-1	09/17/2020	ND	4.0000		
Arsenic, total	ug/L	MW-1	03/25/2021	ND	4.0000		
Arsenic, total	ug/L	MW-1	09/16/2021	ND	4.0000		
Arsenic, total	ug/L	MW-1	03/16/2022	ND	4.0000		
Arsenic, total	ug/L	MW-1	09/01/2022	ND	4.0000		
Arsenic, total	ug/L	MW-1	03/24/2023	ND	4.0000		
Barium, total	ug/L	MW-1	09/17/2014		684.0000		
Barium, total	ug/L	MW-1	04/28/2015		456.0000		
Barium, total	ug/L	MW-1	10/06/2015		279.0000		
Barium, total	ug/L	MW-1	04/23/2016		306.0000		
Barium, total	ug/L	MW-1	09/01/2016		283.0000		
Barium, total	ug/L	MW-1	03/21/2017		310.0000		
Barium, total	ug/L	MW-1	10/13/2017		455.0000		
Barium, total	ug/L	MW-1	03/09/2018		484.0000		
Barium, total	ug/L	MW-1	09/06/2018		361.0000		
Barium, total	ug/L	MW-1	03/07/2019		493.0000		
Barium, total	ug/L	MW-1	09/26/2019		405.0000		
Barium, total	ug/L	MW-1	04/02/2020		452.0000		
Barium, total	ug/L	MW-1	09/17/2020		492.0000		
Barium, total	ug/L	MW-1	03/25/2021		715.0000		
Barium, total	ug/L	MW-1	09/16/2021		467.0000		
Barium, total	ug/L	MW-1	03/16/2022		642.0000		
Barium, total	ug/L	MW-1	09/01/2022		580.0000		
Barium, total	ug/L	MW-1	03/24/2023		657.0000		
Beryllium, total	ug/L	MW-1	09/17/2014	ND	4.0000		
Beryllium, total	ug/L	MW-1	04/28/2015	ND	4.0000		
Beryllium, total	ug/L	MW-1	10/06/2015	ND	4.0000		
Beryllium, total	ug/L	MW-1	04/23/2016	ND	4.0000		
Beryllium, total	ug/L	MW-1	09/01/2016	ND	4.0000		
Beryllium, total	ug/L	MW-1	03/21/2017	ND	4.0000		
Beryllium, total	ug/L	MW-1	10/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-1	03/09/2018	ND	4.0000		
Beryllium, total	ug/L	MW-1	09/06/2018	ND	4.0000		
Beryllium, total	ug/L	MW-1	03/07/2019	ND	4.0000		
Beryllium, total	ug/L	MW-1	09/26/2019	ND	4.0000		
Beryllium, total	ug/L	MW-1	04/02/2020	ND	4.0000		
Beryllium, total	ug/L	MW-1	09/17/2020	ND	4.0000		
Beryllium, total	ug/L	MW-1	03/25/2021	ND	4.0000		
Beryllium, total	ug/L	MW-1	09/16/2021	ND	4.0000		
Beryllium, total	ug/L	MW-1	03/16/2022	ND	4.0000		
Beryllium, total	ug/L	MW-1	09/01/2022	ND	4.0000		
Beryllium, total	ug/L	MW-1	03/24/2023	ND	4.0000		
Cadmium, total	ug/L	MW-1	09/17/2014	ND	0.8000		
Cadmium, total	ug/L	MW-1	04/28/2015	ND	0.8000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW-1	10/06/2015		0.8000		
Cadmium, total	ug/L	MW-1	04/23/2016	ND	0.8000		
Cadmium, total	ug/L	MW-1	09/01/2016	ND	0.8000		
Cadmium, total	ug/L	MW-1	03/21/2017	ND	0.8000		
Cadmium, total	ug/L	MW-1	10/13/2017	ND	0.8000		
Cadmium, total	ug/L	MW-1	03/09/2018	ND	0.8000		
Cadmium, total	ug/L	MW-1	09/06/2018	ND	0.8000		
Cadmium, total	ug/L	MW-1	03/07/2019	ND	0.8000		
Cadmium, total	ug/L	MW-1	09/26/2019	ND	0.8000		
Cadmium, total	ug/L	MW-1	04/02/2020	ND	0.8000		
Cadmium, total	ug/L	MW-1	09/17/2020	ND	0.8000		
Cadmium, total	ug/L	MW-1	03/25/2021	ND	0.8000		
Cadmium, total	ug/L	MW-1	09/16/2021	ND	0.8000		
Cadmium, total	ug/L	MW-1	03/16/2022	ND	0.8000		
Cadmium, total	ug/L	MW-1	09/01/2022	ND	0.8000		
Cadmium, total	ug/L	MW-1	03/24/2023	ND	0.8000		
Chromium, total	ug/L	MW-1	09/17/2014		8.9000		
Chromium, total	ug/L	MW-1	04/28/2015	ND	8.0000		
Chromium, total	ug/L	MW-1	10/06/2015	ND	8.0000		
Chromium, total	ug/L	MW-1	04/23/2016	ND	8.0000		
Chromium, total	ug/L	MW-1	09/01/2016	ND	8.0000		
Chromium, total	ug/L	MW-1	03/21/2017	ND	8.0000		
Chromium, total	ug/L	MW-1	10/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-1	03/09/2018	ND	8.0000		
Chromium, total	ug/L	MW-1	09/06/2018	ND	8.0000		
Chromium, total	ug/L	MW-1	03/07/2019	ND	8.0000		
Chromium, total	ug/L	MW-1	09/26/2019	ND	8.0000		
Chromium, total	ug/L	MW-1	04/02/2020	ND	8.0000		
Chromium, total	ug/L	MW-1	09/17/2020	ND	8.0000		
Chromium, total	ug/L	MW-1	03/25/2021	ND	8.0000		
Chromium, total	ug/L	MW-1	09/16/2021	ND	8.0000		
Chromium, total	ug/L	MW-1	03/16/2022	ND	8.0000		
Chromium, total	ug/L	MW-1	09/01/2022	ND	8.0000		
Chromium, total	ug/L	MW-1	03/24/2023	ND	8.0000		
Cobalt, total	ug/L	MW-1	09/17/2014		30.6000		
Cobalt, total	ug/L	MW-1	04/28/2015		6.0000		
Cobalt, total	ug/L	MW-1	10/06/2015	ND	0.8000		
Cobalt, total	ug/L	MW-1	04/23/2016	ND	0.8000		
Cobalt, total	ug/L	MW-1	09/01/2016	ND	0.8000		
Cobalt, total	ug/L	MW-1	03/21/2017	ND	0.8000		
Cobalt, total	ug/L	MW-1	10/13/2017	ND	0.8000		
Cobalt, total	ug/L	MW-1	03/09/2018		2.5000		
Cobalt, total	ug/L	MW-1	09/06/2018	ND	0.8000		
Cobalt, total	ug/L	MW-1	03/07/2019		4.7000		
Cobalt, total	ug/L	MW-1	09/26/2019		11.2000		
Cobalt, total	ug/L	MW-1	04/02/2020		2.7000		
Cobalt, total	ug/L	MW-1	09/17/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-1	03/25/2021		11.8000		
Cobalt, total	ug/L	MW-1	09/16/2021		0.4000		
Cobalt, total	ug/L	MW-1	03/16/2022		2.1000		
Cobalt, total	ug/L	MW-1	09/01/2022		9.4000		
Cobalt, total	ug/L	MW-1	03/24/2023		14.1000		
Copper, total	ug/L	MW-1	09/17/2014		11.6000		
Copper, total	ug/L	MW-1	04/28/2015	ND	4.0000		
Copper, total	ug/L	MW-1	10/06/2015	ND	4.0000		
Copper, total	ug/L	MW-1	04/23/2016	ND	4.0000		
Copper, total	ug/L	MW-1	09/01/2016	ND	4.0000		
Copper, total	ug/L	MW-1	03/21/2017	ND	4.0000		
Copper, total	ug/L	MW-1	10/13/2017	ND	4.0000		
Copper, total	ug/L	MW-1	03/09/2018	ND	4.0000		
Copper, total	ug/L	MW-1	09/06/2018	ND	4.0000		
Copper, total	ug/L	MW-1	03/07/2019	ND	4.0000		
Copper, total	ug/L	MW-1	09/26/2019	ND	4.0000		
Copper, total	ug/L	MW-1	04/02/2020	ND	4.0000		
Copper, total	ug/L	MW-1	09/17/2020	ND	4.0000		
Copper, total	ug/L	MW-1	03/25/2021	ND	4.0000		
Copper, total	ug/L	MW-1	09/16/2021	ND	4.0000		
Copper, total	ug/L	MW-1	03/16/2022	ND	4.0000		
Copper, total	ug/L	MW-1	09/01/2022	ND	4.0000		
Copper, total	ug/L	MW-1	03/24/2023	ND	4.0000		
Lead, total	ug/L	MW-1	09/17/2014		6.9000		
Lead, total	ug/L	MW-1	04/28/2015	ND	4.0000		
Lead, total	ug/L	MW-1	10/06/2015	ND	4.0000		
Lead, total	ug/L	MW-1	04/23/2016	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lead, total	ug/L	MW-1	09/01/2016	ND	4.0000		
Lead, total	ug/L	MW-1	03/21/2017	ND	4.0000		
Lead, total	ug/L	MW-1	10/13/2017	ND	4.0000		
Lead, total	ug/L	MW-1	03/09/2018	ND	4.0000		
Lead, total	ug/L	MW-1	09/06/2018		7.4000		
Lead, total	ug/L	MW-1	03/07/2019	ND	4.0000		
Lead, total	ug/L	MW-1	09/26/2019	ND	4.0000		
Lead, total	ug/L	MW-1	04/02/2020	ND	4.0000		
Lead, total	ug/L	MW-1	09/17/2020	ND	4.0000		
Lead, total	ug/L	MW-1	03/25/2021	ND	4.0000		
Lead, total	ug/L	MW-1	09/16/2021	ND	4.0000		
Lead, total	ug/L	MW-1	03/16/2022	ND	4.0000		
Lead, total	ug/L	MW-1	09/01/2022	ND	4.0000		
Lead, total	ug/L	MW-1	03/24/2023	ND	4.0000		
Nickel, total	ug/L	MW-1	09/17/2014		60.4000		
Nickel, total	ug/L	MW-1	04/28/2015		20.6000		
Nickel, total	ug/L	MW-1	10/06/2015		10.6000		
Nickel, total	ug/L	MW-1	04/23/2016	ND	4.0000		
Nickel, total	ug/L	MW-1	09/01/2016	ND	4.0000		
Nickel, total	ug/L	MW-1	03/21/2017	ND	4.0000		
Nickel, total	ug/L	MW-1	10/13/2017		13.3000		
Nickel, total	ug/L	MW-1	03/09/2018		20.1000		
Nickel, total	ug/L	MW-1	09/06/2018	ND	4.0000		
Nickel, total	ug/L	MW-1	03/07/2019		16.7000		
Nickel, total	ug/L	MW-1	09/26/2019		9.1000		
Nickel, total	ug/L	MW-1	04/02/2020		5.1000		
Nickel, total	ug/L	MW-1	09/17/2020	ND	4.0000		
Nickel, total	ug/L	MW-1	03/25/2021		28.1000		
Nickel, total	ug/L	MW-1	09/16/2021	ND	4.0000		
Nickel, total	ug/L	MW-1	03/16/2022		15.5000		
Nickel, total	ug/L	MW-1	09/01/2022		12.6000		
Nickel, total	ug/L	MW-1	03/24/2023		21.5000		
Selenium, total	ug/L	MW-1	09/17/2014	ND	4.0000		
Selenium, total	ug/L	MW-1	04/28/2015	ND	4.0000		
Selenium, total	ug/L	MW-1	10/06/2015	ND	4.0000		
Selenium, total	ug/L	MW-1	04/23/2016	ND	4.0000		
Selenium, total	ug/L	MW-1	09/01/2016	ND	4.0000		
Selenium, total	ug/L	MW-1	03/21/2017	ND	4.0000		
Selenium, total	ug/L	MW-1	10/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-1	03/09/2018	ND	4.0000		
Selenium, total	ug/L	MW-1	09/06/2018	ND	4.0000		
Selenium, total	ug/L	MW-1	03/07/2019	ND	4.0000		
Selenium, total	ug/L	MW-1	09/26/2019	ND	4.0000		
Selenium, total	ug/L	MW-1	04/02/2020	ND	4.0000		
Selenium, total	ug/L	MW-1	09/17/2020	ND	4.0000		
Selenium, total	ug/L	MW-1	03/25/2021	ND	4.0000		
Selenium, total	ug/L	MW-1	09/16/2021	ND	4.0000		
Selenium, total	ug/L	MW-1	03/16/2022	ND	4.0000		
Selenium, total	ug/L	MW-1	09/01/2022	ND	4.0000		
Selenium, total	ug/L	MW-1	03/24/2023	ND	4.0000		
Silver, total	ug/L	MW-1	09/17/2014	ND	4.0000		
Silver, total	ug/L	MW-1	04/28/2015	ND	4.0000		
Silver, total	ug/L	MW-1	10/06/2015	ND	4.0000		
Silver, total	ug/L	MW-1	04/23/2016	ND	4.0000		
Silver, total	ug/L	MW-1	09/01/2016	ND	4.0000		
Silver, total	ug/L	MW-1	03/21/2017	ND	4.0000		
Silver, total	ug/L	MW-1	10/13/2017	ND	4.0000		
Silver, total	ug/L	MW-1	03/09/2018	ND	4.0000		
Silver, total	ug/L	MW-1	09/06/2018	ND	8.0000	4.0000	**
Silver, total	ug/L	MW-1	03/07/2019	ND	4.0000		
Silver, total	ug/L	MW-1	09/26/2019	ND	4.0000		
Silver, total	ug/L	MW-1	04/02/2020	ND	4.0000		
Silver, total	ug/L	MW-1	09/17/2020	ND	4.0000		
Silver, total	ug/L	MW-1	03/25/2021	ND	4.0000		
Silver, total	ug/L	MW-1	09/16/2021	ND	4.0000		
Silver, total	ug/L	MW-1	03/16/2022	ND	4.0000		
Silver, total	ug/L	MW-1	09/01/2022	ND	4.0000		
Silver, total	ug/L	MW-1	03/24/2023	ND	4.0000		
Thallium, total	ug/L	MW-1	09/17/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	04/28/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	10/06/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	04/23/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	09/01/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	03/21/2017	ND	4.0000	2.0000	**

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Thallium, total	ug/L	MW-1	10/13/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	03/09/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	09/06/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	03/07/2019	ND	2.0000		
Thallium, total	ug/L	MW-1	09/26/2019	ND	2.0000		
Thallium, total	ug/L	MW-1	04/02/2020	ND	2.0000		
Thallium, total	ug/L	MW-1	09/17/2020	ND	2.0000		
Thallium, total	ug/L	MW-1	03/25/2021	ND	2.0000		
Thallium, total	ug/L	MW-1	09/16/2021	ND	2.0000		
Thallium, total	ug/L	MW-1	03/16/2022	ND	2.0000		
Thallium, total	ug/L	MW-1	09/01/2022	ND	2.0000		
Thallium, total	ug/L	MW-1	03/24/2023	ND	2.0000		
Vanadium, total	ug/L	MW-1	09/17/2014	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/28/2015	ND	20.0000		
Vanadium, total	ug/L	MW-1	10/06/2015	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/23/2016	ND	20.0000		
Vanadium, total	ug/L	MW-1	09/01/2016	ND	20.0000		
Vanadium, total	ug/L	MW-1	03/21/2017	ND	20.0000		
Vanadium, total	ug/L	MW-1	10/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-1	03/09/2018	ND	20.0000		
Vanadium, total	ug/L	MW-1	09/06/2018	ND	20.0000		
Vanadium, total	ug/L	MW-1	03/07/2019	ND	20.0000		
Vanadium, total	ug/L	MW-1	09/26/2019	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/02/2020	ND	20.0000		
Vanadium, total	ug/L	MW-1	09/17/2020	ND	20.0000		
Vanadium, total	ug/L	MW-1	03/25/2021	ND	20.0000		
Vanadium, total	ug/L	MW-1	09/16/2021	ND	20.0000		
Vanadium, total	ug/L	MW-1	03/16/2022	ND	20.0000		
Vanadium, total	ug/L	MW-1	09/01/2022	ND	20.0000		
Vanadium, total	ug/L	MW-1	03/24/2023	ND	20.0000		
Zinc, total	ug/L	MW-1	09/17/2014		32.0000		
Zinc, total	ug/L	MW-1	04/28/2015		12.3000		
Zinc, total	ug/L	MW-1	10/06/2015		8.8000		
Zinc, total	ug/L	MW-1	04/23/2016	ND	20.0000		
Zinc, total	ug/L	MW-1	09/01/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	03/21/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	10/13/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	03/09/2018		11.5000		
Zinc, total	ug/L	MW-1	09/06/2018		15.6000		
Zinc, total	ug/L	MW-1	03/07/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	09/26/2019		27.7000		
Zinc, total	ug/L	MW-1	04/02/2020	ND	20.0000		
Zinc, total	ug/L	MW-1	09/17/2020	ND	20.0000		
Zinc, total	ug/L	MW-1	03/25/2021	ND	20.0000		
Zinc, total	ug/L	MW-1	09/16/2021	ND	20.0000		
Zinc, total	ug/L	MW-1	03/16/2022	ND	20.0000		
Zinc, total	ug/L	MW-1	09/01/2022	ND	20.0000		
Zinc, total	ug/L	MW-1	03/24/2023	ND	20.0000		
Antimony, total	ug/L	MW-17	09/18/2014	ND	2.0000		
Antimony, total	ug/L	MW-17	04/28/2015	ND	2.0000		
Antimony, total	ug/L	MW-17	10/06/2015	ND	2.0000		
Antimony, total	ug/L	MW-17	04/23/2016	ND	2.0000		
Antimony, total	ug/L	MW-17	09/01/2016	ND	2.0000		
Antimony, total	ug/L	MW-17	03/21/2017	ND	2.0000		
Antimony, total	ug/L	MW-17	10/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-17	03/09/2018	ND	2.0000		
Antimony, total	ug/L	MW-17	09/06/2018	ND	2.0000		
Antimony, total	ug/L	MW-17	03/07/2019	ND	2.0000		
Antimony, total	ug/L	MW-17	09/26/2019	ND	2.0000		
Antimony, total	ug/L	MW-17	04/02/2020	ND	2.0000		
Antimony, total	ug/L	MW-17	09/17/2020	ND	2.0000		
Antimony, total	ug/L	MW-17	03/25/2021	ND	2.0000		
Antimony, total	ug/L	MW-17	09/16/2021	ND	2.0000		
Antimony, total	ug/L	MW-17	03/16/2022	ND	2.0000		
Antimony, total	ug/L	MW-17	09/01/2022	ND	2.0000		
Antimony, total	ug/L	MW-17	03/24/2023	ND	2.0000		
Antimony, total	ug/L	MW-17	09/07/2023	ND	2.0000		
Antimony, total	ug/L	MW-17	03/18/2024	ND	2.0000		
Antimony, total	ug/L	MW-17	09/25/2024	ND	2.0000		
Antimony, total	ug/L	MW-17	03/10/2025	ND	2.0000		
Arsenic, total	ug/L	MW-17	09/18/2014	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/28/2015	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/06/2015	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/23/2016	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Arsenic, total	ug/L	MW-17	09/01/2016	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/21/2017	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/09/2018	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/06/2018	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/07/2019	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/26/2019	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/02/2020	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/17/2020	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/25/2021	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/16/2021	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/16/2022	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/01/2022	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/24/2023	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/07/2023	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/18/2024	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/25/2024	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/10/2025	ND	4.0000		
Barium, total	ug/L	MW-17	09/18/2014		91.4000		
Barium, total	ug/L	MW-17	04/28/2015		106.0000		
Barium, total	ug/L	MW-17	10/06/2015		85.3000		
Barium, total	ug/L	MW-17	04/23/2016		99.2000		
Barium, total	ug/L	MW-17	09/01/2016		88.5000		
Barium, total	ug/L	MW-17	03/21/2017		93.7000		
Barium, total	ug/L	MW-17	10/13/2017		89.5000		
Barium, total	ug/L	MW-17	03/09/2018		86.5000		
Barium, total	ug/L	MW-17	09/06/2018		83.2000		
Barium, total	ug/L	MW-17	03/07/2019		99.9000		
Barium, total	ug/L	MW-17	09/26/2019		95.8000		
Barium, total	ug/L	MW-17	04/02/2020		102.0000		
Barium, total	ug/L	MW-17	09/17/2020		94.6000		
Barium, total	ug/L	MW-17	03/25/2021		92.2000		
Barium, total	ug/L	MW-17	09/16/2021		89.6000		
Barium, total	ug/L	MW-17	03/16/2022		89.9000		
Barium, total	ug/L	MW-17	09/01/2022		90.3000		
Barium, total	ug/L	MW-17	03/24/2023		84.3000		
Barium, total	ug/L	MW-17	09/07/2023		92.4000		
Barium, total	ug/L	MW-17	03/18/2024		96.4000		
Barium, total	ug/L	MW-17	09/25/2024		90.1000		
Barium, total	ug/L	MW-17	03/10/2025		84.7000		
Beryllium, total	ug/L	MW-17	09/18/2014	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/28/2015	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/06/2015	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/23/2016	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/01/2016	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/21/2017	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/09/2018	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/06/2018	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/07/2019	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/26/2019	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/02/2020	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/17/2020	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/25/2021	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/16/2021	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/16/2022	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/01/2022	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/24/2023	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/07/2023	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/18/2024	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/25/2024	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/10/2025	ND	4.0000		
Cadmium, total	ug/L	MW-17	09/18/2014	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/28/2015	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/06/2015	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/23/2016	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/01/2016	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/21/2017	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/13/2017		1.4000		
Cadmium, total	ug/L	MW-17	03/09/2018	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/06/2018	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/07/2019	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/26/2019	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/02/2020	ND	0.8000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW-17	09/17/2020	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/25/2021	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/16/2021	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/16/2022	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/01/2022	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/24/2023	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/07/2023	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/18/2024		0.8000		
Cadmium, total	ug/L	MW-17	09/25/2024	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/10/2025	ND	0.8000		
Chromium, total	ug/L	MW-17	09/18/2014	ND	8.0000		
Chromium, total	ug/L	MW-17	04/28/2015	ND	8.0000		
Chromium, total	ug/L	MW-17	10/06/2015	ND	8.0000		
Chromium, total	ug/L	MW-17	04/23/2016	ND	8.0000		
Chromium, total	ug/L	MW-17	09/01/2016	ND	8.0000		
Chromium, total	ug/L	MW-17	03/21/2017	ND	8.0000		
Chromium, total	ug/L	MW-17	10/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-17	03/09/2018	ND	8.0000		
Chromium, total	ug/L	MW-17	09/06/2018	ND	8.0000		
Chromium, total	ug/L	MW-17	03/07/2019	ND	8.0000		
Chromium, total	ug/L	MW-17	09/26/2019	ND	8.0000		
Chromium, total	ug/L	MW-17	04/02/2020	ND	8.0000		
Chromium, total	ug/L	MW-17	09/17/2020	ND	8.0000		
Chromium, total	ug/L	MW-17	03/25/2021	ND	8.0000		
Chromium, total	ug/L	MW-17	09/16/2021	ND	8.0000		
Chromium, total	ug/L	MW-17	03/16/2022	ND	8.0000		
Chromium, total	ug/L	MW-17	09/01/2022	ND	8.0000		
Chromium, total	ug/L	MW-17	03/24/2023	ND	8.0000		
Chromium, total	ug/L	MW-17	09/07/2023	ND	8.0000		
Chromium, total	ug/L	MW-17	03/18/2024	ND	8.0000		
Chromium, total	ug/L	MW-17	09/25/2024	ND	8.0000		
Chromium, total	ug/L	MW-17	03/10/2025	ND	8.0000		
Cobalt, total	ug/L	MW-17	09/18/2014	ND	0.8000		
Cobalt, total	ug/L	MW-17	04/28/2015	ND	0.8000		
Cobalt, total	ug/L	MW-17	10/06/2015	ND	0.8000		
Cobalt, total	ug/L	MW-17	04/23/2016	ND	0.8000		
Cobalt, total	ug/L	MW-17	09/01/2016	ND	0.8000		
Cobalt, total	ug/L	MW-17	03/21/2017	ND	0.8000		
Cobalt, total	ug/L	MW-17	10/13/2017	ND	0.8000		
Cobalt, total	ug/L	MW-17	03/09/2018	ND	0.8000		
Cobalt, total	ug/L	MW-17	09/06/2018	ND	0.8000		
Cobalt, total	ug/L	MW-17	03/07/2019	ND	0.8000		
Cobalt, total	ug/L	MW-17	09/26/2019	ND	0.8000		
Cobalt, total	ug/L	MW-17	04/02/2020	ND	0.8000		
Cobalt, total	ug/L	MW-17	09/17/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	03/25/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	09/16/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	03/16/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	09/01/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	03/24/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	09/07/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	03/18/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	09/25/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	03/10/2025	ND	0.4000	0.8000	**
Copper, total	ug/L	MW-17	09/18/2014	ND	4.0000		
Copper, total	ug/L	MW-17	04/28/2015	ND	4.0000		
Copper, total	ug/L	MW-17	10/06/2015	ND	4.0000		
Copper, total	ug/L	MW-17	04/23/2016	ND	4.0000		
Copper, total	ug/L	MW-17	09/01/2016	ND	4.0000		
Copper, total	ug/L	MW-17	03/21/2017	ND	4.0000		
Copper, total	ug/L	MW-17	10/13/2017	ND	4.0000		
Copper, total	ug/L	MW-17	03/09/2018	ND	4.0000		
Copper, total	ug/L	MW-17	09/06/2018	ND	4.0000		
Copper, total	ug/L	MW-17	03/07/2019	ND	4.0000		
Copper, total	ug/L	MW-17	09/26/2019	ND	4.0000		
Copper, total	ug/L	MW-17	04/02/2020	ND	4.0000		
Copper, total	ug/L	MW-17	09/17/2020	ND	4.0000		
Copper, total	ug/L	MW-17	03/25/2021	ND	4.0000		
Copper, total	ug/L	MW-17	09/16/2021	ND	4.0000		
Copper, total	ug/L	MW-17	03/16/2022	ND	4.0000		
Copper, total	ug/L	MW-17	09/01/2022	ND	4.0000		
Copper, total	ug/L	MW-17	03/24/2023	ND	4.0000		
Copper, total	ug/L	MW-17	09/07/2023	ND	4.0000		
Copper, total	ug/L	MW-17	03/18/2024	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Copper, total	ug/L	MW-17	09/25/2024	ND	4.0000		
Copper, total	ug/L	MW-17	03/10/2025	ND	4.0000		
Lead, total	ug/L	MW-17	09/18/2014	ND	4.0000		
Lead, total	ug/L	MW-17	04/28/2015	ND	4.0000		
Lead, total	ug/L	MW-17	10/06/2015	ND	4.0000		
Lead, total	ug/L	MW-17	04/23/2016	ND	4.0000		
Lead, total	ug/L	MW-17	09/01/2016	ND	4.0000		
Lead, total	ug/L	MW-17	03/21/2017	ND	4.0000		
Lead, total	ug/L	MW-17	10/13/2017	ND	4.0000		
Lead, total	ug/L	MW-17	03/09/2018	ND	4.0000		
Lead, total	ug/L	MW-17	09/06/2018	ND	4.0000		
Lead, total	ug/L	MW-17	03/07/2019	ND	4.0000		
Lead, total	ug/L	MW-17	09/26/2019	ND	4.0000		
Lead, total	ug/L	MW-17	04/02/2020	ND	4.0000		
Lead, total	ug/L	MW-17	09/17/2020	ND	4.0000		
Lead, total	ug/L	MW-17	03/25/2021	ND	4.0000		
Lead, total	ug/L	MW-17	09/16/2021	ND	4.0000		
Lead, total	ug/L	MW-17	03/16/2022	ND	4.0000		
Lead, total	ug/L	MW-17	09/01/2022	ND	4.0000		
Lead, total	ug/L	MW-17	03/24/2023	ND	4.0000		
Lead, total	ug/L	MW-17	09/07/2023	ND	4.0000		
Lead, total	ug/L	MW-17	03/18/2024	ND	4.0000		
Lead, total	ug/L	MW-17	09/25/2024	ND	4.0000		
Lead, total	ug/L	MW-17	03/10/2025	ND	4.0000		
Nickel, total	ug/L	MW-17	09/18/2014	ND	4.0000		
Nickel, total	ug/L	MW-17	04/28/2015	ND	4.0000		
Nickel, total	ug/L	MW-17	10/06/2015	ND	4.0000		
Nickel, total	ug/L	MW-17	04/23/2016	ND	4.0000		
Nickel, total	ug/L	MW-17	09/01/2016	ND	4.0000		
Nickel, total	ug/L	MW-17	03/21/2017	ND	4.0000		
Nickel, total	ug/L	MW-17	10/13/2017	ND	4.0000		
Nickel, total	ug/L	MW-17	03/09/2018	ND	4.0000		
Nickel, total	ug/L	MW-17	09/06/2018	ND	4.0000		
Nickel, total	ug/L	MW-17	03/07/2019	ND	4.0000		
Nickel, total	ug/L	MW-17	09/26/2019	ND	4.0000		
Nickel, total	ug/L	MW-17	04/02/2020	ND	4.0000		
Nickel, total	ug/L	MW-17	09/17/2020	ND	4.0000		
Nickel, total	ug/L	MW-17	03/25/2021	ND	4.0000		
Nickel, total	ug/L	MW-17	09/16/2021	ND	4.0000		
Nickel, total	ug/L	MW-17	03/16/2022	ND	4.0000		
Nickel, total	ug/L	MW-17	09/01/2022	ND	4.0000		
Nickel, total	ug/L	MW-17	03/24/2023	ND	4.0000		
Nickel, total	ug/L	MW-17	09/07/2023	ND	4.0000		
Nickel, total	ug/L	MW-17	03/18/2024	ND	4.0000		
Nickel, total	ug/L	MW-17	09/25/2024	ND	4.0000		
Nickel, total	ug/L	MW-17	03/10/2025	ND	4.0000		
Selenium, total	ug/L	MW-17	09/18/2014	ND	4.0000		
Selenium, total	ug/L	MW-17	04/28/2015	ND	4.0000		
Selenium, total	ug/L	MW-17	10/06/2015	ND	4.0000		
Selenium, total	ug/L	MW-17	04/23/2016	ND	4.0000		
Selenium, total	ug/L	MW-17	09/01/2016	ND	4.0000		
Selenium, total	ug/L	MW-17	03/21/2017	ND	4.0000		
Selenium, total	ug/L	MW-17	10/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-17	03/09/2018	ND	4.0000		
Selenium, total	ug/L	MW-17	09/06/2018	ND	4.0000		
Selenium, total	ug/L	MW-17	03/07/2019	ND	4.0000		
Selenium, total	ug/L	MW-17	09/26/2019	ND	4.0000		
Selenium, total	ug/L	MW-17	04/02/2020	ND	4.0000		
Selenium, total	ug/L	MW-17	09/17/2020	ND	4.0000		
Selenium, total	ug/L	MW-17	03/25/2021	ND	4.0000		
Selenium, total	ug/L	MW-17	09/16/2021	ND	4.0000		
Selenium, total	ug/L	MW-17	03/16/2022	ND	4.0000		
Selenium, total	ug/L	MW-17	09/01/2022	ND	4.0000		
Selenium, total	ug/L	MW-17	03/24/2023	ND	4.0000		
Selenium, total	ug/L	MW-17	09/07/2023	ND	4.0000		
Selenium, total	ug/L	MW-17	03/18/2024	ND	4.0000		
Selenium, total	ug/L	MW-17	09/25/2024	ND	4.0000		
Selenium, total	ug/L	MW-17	03/10/2025	ND	4.0000		
Silver, total	ug/L	MW-17	09/18/2014	ND	4.0000		
Silver, total	ug/L	MW-17	04/28/2015	ND	4.0000		
Silver, total	ug/L	MW-17	10/06/2015	ND	4.0000		
Silver, total	ug/L	MW-17	04/23/2016	ND	4.0000		
Silver, total	ug/L	MW-17	09/01/2016	ND	4.0000		
Silver, total	ug/L	MW-17	03/21/2017	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Silver, total	ug/L	MW-17	10/13/2017	ND	4.0000	4.0000	**
Silver, total	ug/L	MW-17	03/09/2018	ND	4.0000		
Silver, total	ug/L	MW-17	09/06/2018	ND	8.0000		
Silver, total	ug/L	MW-17	03/07/2019	ND	4.0000		
Silver, total	ug/L	MW-17	09/26/2019	ND	4.0000		
Silver, total	ug/L	MW-17	04/02/2020	ND	4.0000		
Silver, total	ug/L	MW-17	09/17/2020	ND	4.0000		
Silver, total	ug/L	MW-17	03/25/2021	ND	4.0000		
Silver, total	ug/L	MW-17	09/16/2021	ND	4.0000		
Silver, total	ug/L	MW-17	03/16/2022	ND	4.0000		
Silver, total	ug/L	MW-17	09/01/2022	ND	4.0000		
Silver, total	ug/L	MW-17	03/24/2023	ND	4.0000		
Silver, total	ug/L	MW-17	09/07/2023	ND	4.0000		
Silver, total	ug/L	MW-17	03/18/2024	ND	4.0000		
Silver, total	ug/L	MW-17	09/25/2024	ND	4.0000		
Silver, total	ug/L	MW-17	03/10/2025	ND	4.0000		
Thallium, total	ug/L	MW-17	09/18/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/28/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/06/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/23/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	09/01/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	03/21/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/13/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	03/09/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	09/06/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	03/07/2019	ND	2.0000	2.0000	**
Thallium, total	ug/L	MW-17	09/26/2019	ND	2.0000		
Thallium, total	ug/L	MW-17	04/02/2020	ND	2.0000		
Thallium, total	ug/L	MW-17	09/17/2020	ND	2.0000		
Thallium, total	ug/L	MW-17	03/25/2021	ND	2.0000		
Thallium, total	ug/L	MW-17	09/16/2021	ND	2.0000		
Thallium, total	ug/L	MW-17	03/16/2022	ND	2.0000		
Thallium, total	ug/L	MW-17	09/01/2022	ND	2.0000		
Thallium, total	ug/L	MW-17	03/24/2023	ND	2.0000		
Thallium, total	ug/L	MW-17	09/07/2023	ND	2.0000		
Thallium, total	ug/L	MW-17	03/18/2024	ND	2.0000		
Thallium, total	ug/L	MW-17	09/25/2024	ND	2.0000		
Thallium, total	ug/L	MW-17	03/10/2025	ND	2.0000		
Vanadium, total	ug/L	MW-17	09/18/2014	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/28/2015	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/06/2015	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/23/2016	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/01/2016	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/21/2017	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/09/2018	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/06/2018	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/07/2019	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/26/2019	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/02/2020	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/17/2020	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/25/2021	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/16/2021	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/16/2022	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/01/2022	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/24/2023	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/07/2023	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/18/2024	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/25/2024	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/10/2025	ND	20.0000		
Zinc, total	ug/L	MW-17	09/18/2014		8.1000	20.0000	**
Zinc, total	ug/L	MW-17	04/28/2015	ND	8.0000		
Zinc, total	ug/L	MW-17	10/06/2015	ND	8.0000		
Zinc, total	ug/L	MW-17	04/23/2016	ND	20.0000		
Zinc, total	ug/L	MW-17	09/01/2016	ND	8.0000		
Zinc, total	ug/L	MW-17	03/21/2017	ND	8.0000		
Zinc, total	ug/L	MW-17	10/13/2017	ND	8.0000		
Zinc, total	ug/L	MW-17	03/09/2018	ND	8.0000		
Zinc, total	ug/L	MW-17	09/06/2018	ND	8.0000		
Zinc, total	ug/L	MW-17	03/07/2019	ND	8.0000		
Zinc, total	ug/L	MW-17	09/26/2019		8.5000		
Zinc, total	ug/L	MW-17	04/02/2020	ND	20.0000		
Zinc, total	ug/L	MW-17	09/17/2020	ND	20.0000		
Zinc, total	ug/L	MW-17	03/25/2021	ND	20.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Zinc, total	ug/L	MW-17	09/16/2021	ND	20.0000		
Zinc, total	ug/L	MW-17	03/16/2022	ND	20.0000		
Zinc, total	ug/L	MW-17	09/01/2022	ND	20.0000		
Zinc, total	ug/L	MW-17	03/24/2023	ND	20.0000		
Zinc, total	ug/L	MW-17	09/07/2023	ND	20.0000		
Zinc, total	ug/L	MW-17	03/18/2024	ND	20.0000		
Zinc, total	ug/L	MW-17	09/25/2024	ND	20.0000		
Zinc, total	ug/L	MW-17	03/10/2025	ND	20.0000		
Antimony, total	ug/L	MW-44	03/16/2022	ND	2.0000		
Antimony, total	ug/L	MW-44	11/13/2023	ND	2.0000		
Antimony, total	ug/L	MW-44	03/18/2024	ND	2.0000		
Antimony, total	ug/L	MW-44	11/25/2024	ND	2.0000		
Antimony, total	ug/L	MW-44	03/10/2025	ND	2.0000		
Arsenic, total	ug/L	MW-44	03/16/2022	ND	4.0000		
Arsenic, total	ug/L	MW-44	11/13/2023	ND	4.0000		
Arsenic, total	ug/L	MW-44	03/18/2024	ND	4.0000		
Arsenic, total	ug/L	MW-44	11/25/2024	ND	4.0000		
Arsenic, total	ug/L	MW-44	03/10/2025	ND	4.0000		
Barium, total	ug/L	MW-44	03/16/2022		124.0000		
Barium, total	ug/L	MW-44	11/13/2023		137.0000		
Barium, total	ug/L	MW-44	03/18/2024		154.0000		
Barium, total	ug/L	MW-44	11/25/2024		134.0000		
Barium, total	ug/L	MW-44	03/10/2025		123.0000		
Beryllium, total	ug/L	MW-44	03/16/2022	ND	4.0000		
Beryllium, total	ug/L	MW-44	11/13/2023	ND	4.0000		
Beryllium, total	ug/L	MW-44	03/18/2024	ND	4.0000		
Beryllium, total	ug/L	MW-44	11/25/2024	ND	4.0000		
Beryllium, total	ug/L	MW-44	03/10/2025	ND	4.0000		
Cadmium, total	ug/L	MW-44	03/16/2022	ND	0.8000		
Cadmium, total	ug/L	MW-44	11/13/2023	ND	0.8000		
Cadmium, total	ug/L	MW-44	03/18/2024	ND	0.8000		
Cadmium, total	ug/L	MW-44	11/25/2024	ND	0.8000		
Cadmium, total	ug/L	MW-44	03/10/2025	ND	0.8000		
Chromium, total	ug/L	MW-44	03/16/2022	ND	8.0000		
Chromium, total	ug/L	MW-44	11/13/2023	ND	8.0000		
Chromium, total	ug/L	MW-44	03/18/2024	ND	8.0000		
Chromium, total	ug/L	MW-44	11/25/2024	ND	8.0000		
Chromium, total	ug/L	MW-44	03/10/2025	ND	8.0000		
Cobalt, total	ug/L	MW-44	03/16/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-44	11/13/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-44	03/18/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-44	11/25/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-44	03/10/2025	ND	0.4000	0.8000	**
Copper, total	ug/L	MW-44	03/16/2022		4.3000		
Copper, total	ug/L	MW-44	11/13/2023	ND	4.0000		
Copper, total	ug/L	MW-44	03/18/2024	ND	4.0000		
Copper, total	ug/L	MW-44	11/25/2024	ND	4.0000		
Copper, total	ug/L	MW-44	03/10/2025	ND	4.0000		
Lead, total	ug/L	MW-44	03/16/2022		6.1000		
Lead, total	ug/L	MW-44	11/13/2023	ND	4.0000		
Lead, total	ug/L	MW-44	03/18/2024	ND	4.0000		
Lead, total	ug/L	MW-44	11/25/2024	ND	4.0000		
Lead, total	ug/L	MW-44	03/10/2025	ND	4.0000		
Nickel, total	ug/L	MW-44	03/16/2022	ND	4.0000		
Nickel, total	ug/L	MW-44	11/13/2023	ND	4.0000		
Nickel, total	ug/L	MW-44	03/18/2024	ND	4.0000		
Nickel, total	ug/L	MW-44	11/25/2024	ND	4.0000		
Nickel, total	ug/L	MW-44	03/10/2025	ND	4.0000		
Selenium, total	ug/L	MW-44	03/16/2022	ND	4.0000		
Selenium, total	ug/L	MW-44	11/13/2023	ND	4.0000		
Selenium, total	ug/L	MW-44	03/18/2024	ND	4.0000		
Selenium, total	ug/L	MW-44	11/25/2024	ND	4.0000		
Selenium, total	ug/L	MW-44	03/10/2025	ND	4.0000		
Silver, total	ug/L	MW-44	03/16/2022	ND	4.0000		
Silver, total	ug/L	MW-44	11/13/2023	ND	4.0000		
Silver, total	ug/L	MW-44	03/18/2024	ND	4.0000		
Silver, total	ug/L	MW-44	11/25/2024	ND	4.0000		
Silver, total	ug/L	MW-44	03/10/2025	ND	4.0000		
Thallium, total	ug/L	MW-44	03/16/2022	ND	2.0000		
Thallium, total	ug/L	MW-44	11/13/2023	ND	2.0000		
Thallium, total	ug/L	MW-44	03/18/2024	ND	2.0000		
Thallium, total	ug/L	MW-44	11/25/2024	ND	2.0000		
Thallium, total	ug/L	MW-44	03/10/2025	ND	2.0000		
Vanadium, total	ug/L	MW-44	03/16/2022	ND	20.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Vanadium, total	ug/L	MW-44	11/13/2023	ND	20.0000		
Vanadium, total	ug/L	MW-44	03/18/2024	ND	20.0000		
Vanadium, total	ug/L	MW-44	11/25/2024	ND	20.0000		
Vanadium, total	ug/L	MW-44	03/10/2025	ND	20.0000		
Zinc, total	ug/L	MW-44	03/16/2022		69.2000		*
Zinc, total	ug/L	MW-44	11/13/2023	ND	20.0000		
Zinc, total	ug/L	MW-44	03/18/2024	ND	20.0000		
Zinc, total	ug/L	MW-44	11/25/2024	ND	20.0000		
Zinc, total	ug/L	MW-44	03/10/2025	ND	20.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, total	ug/L	GWD-1	03/10/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	GWD-1	03/10/2025	ND	4.0000		5.6000
Barium, total	ug/L	GWD-1	03/10/2025		219.0000		748.3411
Beryllium, total	ug/L	GWD-1	03/10/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	GWD-1	03/10/2025	ND	0.8000		1.4000
Chromium, total	ug/L	GWD-1	03/10/2025	ND	8.0000		8.9000
Cobalt, total	ug/L	GWD-1	03/10/2025		0.9000		30.6000
Copper, total	ug/L	GWD-1	03/10/2025	ND	4.0000		11.6000
Lead, total	ug/L	GWD-1	03/10/2025	ND	4.0000		7.4000
Nickel, total	ug/L	GWD-1	03/10/2025	ND	4.0000		60.4000
Selenium, total	ug/L	GWD-1	03/10/2025	ND	4.0000		4.0000
Silver, total	ug/L	GWD-1	03/10/2025	ND	4.0000		4.0000
Thallium, total	ug/L	GWD-1	03/10/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	GWD-1	03/10/2025	ND	20.0000		20.0000
Zinc, total	ug/L	GWD-1	03/10/2025	ND	20.0000		32.0000
Antimony, total	ug/L	GWD-3	03/10/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	GWD-3	03/10/2025	ND	4.0000		5.6000
Barium, total	ug/L	GWD-3	03/10/2025		258.0000		748.3411
Beryllium, total	ug/L	GWD-3	03/10/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	GWD-3	03/10/2025	ND	0.8000		1.4000
Chromium, total	ug/L	GWD-3	03/10/2025	ND	8.0000		8.9000
Cobalt, total	ug/L	GWD-3	03/10/2025	ND	0.4000		30.6000
Copper, total	ug/L	GWD-3	03/10/2025	ND	4.0000		11.6000
Lead, total	ug/L	GWD-3	03/10/2025	ND	4.0000		7.4000
Nickel, total	ug/L	GWD-3	03/10/2025	ND	4.0000		60.4000
Selenium, total	ug/L	GWD-3	03/10/2025	ND	4.0000	**	4.0000
Silver, total	ug/L	GWD-3	03/10/2025	ND	4.0000		4.0000
Thallium, total	ug/L	GWD-3	03/10/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	GWD-3	03/10/2025	ND	20.0000		20.0000
Zinc, total	ug/L	GWD-3	03/10/2025		120.0000	*	32.0000
Antimony, total	ug/L	GWD-4	03/10/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	GWD-4	03/10/2025	ND	4.0000		5.6000
Barium, total	ug/L	GWD-4	03/10/2025		229.0000		748.3411
Beryllium, total	ug/L	GWD-4	03/10/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	GWD-4	03/10/2025	ND	0.8000		1.4000
Chromium, total	ug/L	GWD-4	03/10/2025	ND	8.0000		8.9000
Cobalt, total	ug/L	GWD-4	03/10/2025	ND	0.4000		30.6000
Copper, total	ug/L	GWD-4	03/10/2025	ND	4.0000		11.6000
Lead, total	ug/L	GWD-4	03/10/2025	ND	4.0000		7.4000
Nickel, total	ug/L	GWD-4	03/10/2025	ND	4.0000		60.4000
Selenium, total	ug/L	GWD-4	03/10/2025	ND	4.0000		4.0000
Silver, total	ug/L	GWD-4	03/10/2025	ND	4.0000		4.0000
Thallium, total	ug/L	GWD-4	03/10/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	GWD-4	03/10/2025	ND	20.0000		20.0000
Zinc, total	ug/L	GWD-4	03/10/2025		58.9000	***	32.0000
Antimony, total	ug/L	MW-10	03/10/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-10	03/10/2025		10.8000	*	5.6000
Barium, total	ug/L	MW-10	03/10/2025		494.0000		748.3411
Beryllium, total	ug/L	MW-10	03/10/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-10	03/10/2025		1.1000		1.4000
Chromium, total	ug/L	MW-10	03/10/2025	ND	8.0000		8.9000
Cobalt, total	ug/L	MW-10	03/10/2025		0.9000		30.6000
Copper, total	ug/L	MW-10	03/10/2025	ND	4.0000		11.6000
Lead, total	ug/L	MW-10	03/10/2025	ND	4.0000		7.4000
Nickel, total	ug/L	MW-10	03/10/2025		5.4000		60.4000
Selenium, total	ug/L	MW-10	03/10/2025	ND	4.0000		4.0000
Silver, total	ug/L	MW-10	03/10/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-10	03/10/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-10	03/10/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-10	03/10/2025	ND	20.0000		32.0000
Antimony, total	ug/L	MW-13	03/11/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-13	03/11/2025	ND	4.0000		5.6000
Barium, total	ug/L	MW-13	03/11/2025		63.1000		748.3411
Beryllium, total	ug/L	MW-13	03/11/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-13	03/11/2025		2.6000	*	1.4000
Chromium, total	ug/L	MW-13	03/11/2025	ND	8.0000		8.9000
Cobalt, total	ug/L	MW-13	03/11/2025	ND	0.4000		30.6000
Copper, total	ug/L	MW-13	03/11/2025	ND	4.0000		11.6000
Lead, total	ug/L	MW-13	03/11/2025	ND	4.0000		7.4000
Nickel, total	ug/L	MW-13	03/11/2025		5.2000		60.4000
Selenium, total	ug/L	MW-13	03/11/2025	ND	4.0000		4.0000
Silver, total	ug/L	MW-13	03/11/2025	ND	4.0000		4.0000

* - Current value failed - awaiting verification.

** - Current value passed - previous exceedance not verified.

*** - Current value failed - exceedance verified.

**** - Current value passed - awaiting one more verification.

***** - Insufficient background data to compute prediction limit.

ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Thallium, total	ug/L	MW-13	03/11/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-13	03/11/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-13	03/11/2025	ND	20.0000		32.0000
Antimony, total	ug/L	MW-14	03/10/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-14	03/10/2025	ND	4.0000		5.6000
Barium, total	ug/L	MW-14	03/10/2025		135.0000		748.3411
Beryllium, total	ug/L	MW-14	03/10/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-14	03/10/2025	ND	0.8000		1.4000
Chromium, total	ug/L	MW-14	03/10/2025	ND	8.0000		8.9000
Cobalt, total	ug/L	MW-14	03/10/2025	ND	0.4000		30.6000
Copper, total	ug/L	MW-14	03/10/2025	ND	4.0000		11.6000
Lead, total	ug/L	MW-14	03/10/2025	ND	4.0000		7.4000
Nickel, total	ug/L	MW-14	03/10/2025		4.3000		60.4000
Selenium, total	ug/L	MW-14	03/10/2025	ND	4.0000		4.0000
Silver, total	ug/L	MW-14	03/10/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-14	03/10/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-14	03/10/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-14	03/10/2025	ND	20.0000		32.0000
Antimony, total	ug/L	MW-16	03/10/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-16	03/10/2025		24.0000	***	5.6000
Barium, total	ug/L	MW-16	03/10/2025		697.0000	**	748.3411
Beryllium, total	ug/L	MW-16	03/10/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-16	03/10/2025		1.1000		1.4000
Chromium, total	ug/L	MW-16	03/10/2025	ND	8.0000		8.9000
Cobalt, total	ug/L	MW-16	03/10/2025		0.9000		30.6000
Copper, total	ug/L	MW-16	03/10/2025	ND	4.0000		11.6000
Lead, total	ug/L	MW-16	03/10/2025	ND	4.0000		7.4000
Nickel, total	ug/L	MW-16	03/10/2025		27.8000		60.4000
Selenium, total	ug/L	MW-16	03/10/2025	ND	4.0000		4.0000
Silver, total	ug/L	MW-16	03/10/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-16	03/10/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-16	03/10/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-16	03/10/2025	ND	20.0000		32.0000
Antimony, total	ug/L	MW-18	03/10/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-18	03/10/2025		31.2000	***	5.6000
Barium, total	ug/L	MW-18	03/10/2025		393.0000		748.3411
Beryllium, total	ug/L	MW-18	03/10/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-18	03/10/2025	ND	0.8000		1.4000
Chromium, total	ug/L	MW-18	03/10/2025	ND	8.0000		8.9000
Cobalt, total	ug/L	MW-18	03/10/2025		0.8000		30.6000
Copper, total	ug/L	MW-18	03/10/2025		16.2000	*	11.6000
Lead, total	ug/L	MW-18	03/10/2025	ND	4.0000		7.4000
Nickel, total	ug/L	MW-18	03/10/2025		8.2000		60.4000
Selenium, total	ug/L	MW-18	03/10/2025	ND	4.0000		4.0000
Silver, total	ug/L	MW-18	03/10/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-18	03/10/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-18	03/10/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-18	03/10/2025	ND	20.0000		32.0000
Antimony, total	ug/L	MW-19R	03/10/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-19R	03/10/2025	ND	4.0000		5.6000
Barium, total	ug/L	MW-19R	03/10/2025		259.0000		748.3411
Beryllium, total	ug/L	MW-19R	03/10/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-19R	03/10/2025	ND	0.8000		1.4000
Chromium, total	ug/L	MW-19R	03/10/2025	ND	8.0000		8.9000
Cobalt, total	ug/L	MW-19R	03/10/2025		1.3000		30.6000
Copper, total	ug/L	MW-19R	03/10/2025	ND	4.0000		11.6000
Lead, total	ug/L	MW-19R	03/10/2025	ND	4.0000		7.4000
Nickel, total	ug/L	MW-19R	03/10/2025		9.7000		60.4000
Selenium, total	ug/L	MW-19R	03/10/2025	ND	4.0000		4.0000
Silver, total	ug/L	MW-19R	03/10/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-19R	03/10/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-19R	03/10/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-19R	03/10/2025	ND	20.0000		32.0000
Antimony, total	ug/L	MW-1D	03/10/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-1D	03/10/2025	ND	4.0000		5.6000
Barium, total	ug/L	MW-1D	03/10/2025		704.0000		748.3411
Beryllium, total	ug/L	MW-1D	03/10/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-1D	03/10/2025	ND	0.8000		1.4000
Chromium, total	ug/L	MW-1D	03/10/2025	ND	8.0000		8.9000
Cobalt, total	ug/L	MW-1D	03/10/2025		8.7000		30.6000
Copper, total	ug/L	MW-1D	03/10/2025	ND	4.0000		11.6000
Lead, total	ug/L	MW-1D	03/10/2025	ND	4.0000		7.4000

* - Current value failed - awaiting verification.

** - Current value passed - previous exceedance not verified.

*** - Current value failed - exceedance verified.

**** - Current value passed - awaiting one more verification.

***** - Insufficient background data to compute prediction limit.

ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Nickel, total	ug/L	MW-1D	03/10/2025		20.0000		60.4000
Selenium, total	ug/L	MW-1D	03/10/2025	ND	4.0000		4.0000
Silver, total	ug/L	MW-1D	03/10/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-1D	03/10/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-1D	03/10/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-1D	03/10/2025	ND	20.0000		32.0000
Antimony, total	ug/L	MW-20	03/10/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-20	03/10/2025		54.9000	***	5.6000
Barium, total	ug/L	MW-20	03/10/2025		1640.0000	***	748.3411
Beryllium, total	ug/L	MW-20	03/10/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-20	03/10/2025		1.4000		1.4000
Chromium, total	ug/L	MW-20	03/10/2025	ND	8.0000		8.9000
Cobalt, total	ug/L	MW-20	03/10/2025		7.2000		30.6000
Copper, total	ug/L	MW-20	03/10/2025		26.4000	*	11.6000
Lead, total	ug/L	MW-20	03/10/2025	ND	4.0000		7.4000
Nickel, total	ug/L	MW-20	03/10/2025		20.9000		60.4000
Selenium, total	ug/L	MW-20	03/10/2025	ND	4.0000		4.0000
Silver, total	ug/L	MW-20	03/10/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-20	03/10/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-20	03/10/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-20	03/10/2025		44.9000	*	32.0000
Antimony, total	ug/L	MW-3	03/10/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-3	03/10/2025	ND	4.0000		5.6000
Barium, total	ug/L	MW-3	03/10/2025		320.0000		748.3411
Beryllium, total	ug/L	MW-3	03/10/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-3	03/10/2025		2.1000	*	1.4000
Chromium, total	ug/L	MW-3	03/10/2025	ND	8.0000		8.9000
Cobalt, total	ug/L	MW-3	03/10/2025	ND	0.4000		30.6000
Copper, total	ug/L	MW-3	03/10/2025	ND	4.0000		11.6000
Lead, total	ug/L	MW-3	03/10/2025	ND	4.0000		7.4000
Nickel, total	ug/L	MW-3	03/10/2025	ND	4.0000		60.4000
Selenium, total	ug/L	MW-3	03/10/2025	ND	4.0000		4.0000
Silver, total	ug/L	MW-3	03/10/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-3	03/10/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-3	03/10/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-3	03/10/2025	ND	20.0000		32.0000
Antimony, total	ug/L	MW-53	03/10/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-53	03/10/2025	ND	4.0000		5.6000
Barium, total	ug/L	MW-53	03/10/2025		79.3000		748.3411
Beryllium, total	ug/L	MW-53	03/10/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-53	03/10/2025	ND	0.8000		1.4000
Chromium, total	ug/L	MW-53	03/10/2025	ND	8.0000		8.9000
Cobalt, total	ug/L	MW-53	03/10/2025	ND	0.4000		30.6000
Copper, total	ug/L	MW-53	03/10/2025	ND	4.0000		11.6000
Lead, total	ug/L	MW-53	03/10/2025	ND	4.0000		7.4000
Nickel, total	ug/L	MW-53	03/10/2025	ND	4.0000		60.4000
Selenium, total	ug/L	MW-53	03/10/2025	ND	4.0000		4.0000
Silver, total	ug/L	MW-53	03/10/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-53	03/10/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-53	03/10/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-53	03/10/2025	ND	20.0000		32.0000
Antimony, total	ug/L	MW-7	03/10/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-7	03/10/2025		6.6000	***	5.6000
Barium, total	ug/L	MW-7	03/10/2025		344.0000		748.3411
Beryllium, total	ug/L	MW-7	03/10/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-7	03/10/2025		1.7000	*	1.4000
Chromium, total	ug/L	MW-7	03/10/2025	ND	8.0000		8.9000
Cobalt, total	ug/L	MW-7	03/10/2025		12.0000		30.6000
Copper, total	ug/L	MW-7	03/10/2025	ND	4.0000		11.6000
Lead, total	ug/L	MW-7	03/10/2025	ND	4.0000		7.4000
Nickel, total	ug/L	MW-7	03/10/2025		18.4000		60.4000
Selenium, total	ug/L	MW-7	03/10/2025	ND	4.0000		4.0000
Silver, total	ug/L	MW-7	03/10/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-7	03/10/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-7	03/10/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-7	03/10/2025	ND	20.0000		32.0000

* - Current value failed - awaiting verification.

** - Current value passed - previous exceedance not verified.

*** - Current value failed - exceedance verified.

**** - Current value passed - awaiting one more verification.

***** - Insufficient background data to compute prediction limit.

ND = Not Detected, Result = detection limit.

Table 3**Detection Frequencies in Upgradient and Downgradient Wells**

Constituent	Detect	Upgradient N	Proportion	Detect	Downgradient N	Proportion
Antimony, total	0	45	0.000	7	345	0.020
Arsenic, total	1	45	0.022	160	349	0.458
Barium, total	45	45	1.000	347	347	1.000
Beryllium, total	0	45	0.000	4	346	0.012
Cadmium, total	3	45	0.067	29	348	0.083
Chromium, total	1	45	0.022	29	346	0.084
Cobalt, total	11	45	0.244	192	347	0.553
Copper, total	2	45	0.044	70	346	0.202
Lead, total	3	45	0.067	45	346	0.130
Nickel, total	12	45	0.267	276	346	0.798
Selenium, total	0	45	0.000	38	349	0.109
Silver, total	0	45	0.000	0	345	0.000
Thallium, total	0	45	0.000	1	345	0.003
Vanadium, total	0	45	0.000	28	346	0.081
Zinc, total	8	44	0.182	106	347	0.305

N = Total number of measurements in all wells.

Detect = Total number of detections in all wells.

Proportion = Detect/N.

Table 4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Antimony, total	0	45	0.000									nonpar
Arsenic, total	1	45	0.022									nonpar
Barium, total	45	45	1.000	0.623	0.261					2.326	normal	normal
Beryllium, total	0	45	0.000									nonpar
Cadmium, total	3	45	0.067									nonpar
Chromium, total	1	45	0.022									nonpar
Cobalt, total	11	45	0.244	2.030	0.246					2.326	normal	nonpar
Copper, total	2	45	0.044									nonpar
Lead, total	3	45	0.067									nonpar
Nickel, total	12	45	0.267	2.926	1.116					2.326	lognor	nonpar
Selenium, total	0	45	0.000									nonpar
Silver, total	0	45	0.000									nonpar
Thallium, total	0	45	0.000									nonpar
Vanadium, total	0	45	0.000									nonpar
Zinc, total	8	44	0.182	0.938	0.094					2.326	normal	nonpar

* - Distribution override for that constituent.

Fit to distribution is confirmed if G <= critical value.

Model type may not match distributional form when detection frequency < 50%.

Table 5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Antimony, total	ug/L	0	45	249.3000	204.4639	0.0100	2.4407	2.0000	nonpar	***	0.99
Arsenic, total	ug/L	1	45					5.6000	nonpar		0.99
Barium, total	ug/L	45	45					748.3411	normal		
Beryllium, total	ug/L	0	45					4.0000	nonpar	***	0.99
Cadmium, total	ug/L	3	45					1.4000	nonpar		0.99
Chromium, total	ug/L	1	45					8.9000	nonpar		0.99
Cobalt, total	ug/L	11	45					30.6000	nonpar		0.99
Copper, total	ug/L	2	45					11.6000	nonpar		0.99
Lead, total	ug/L	3	45					7.4000	nonpar		0.99
Nickel, total	ug/L	12	45					60.4000	nonpar		0.99
Selenium, total	ug/L	0	45					4.0000	nonpar	***	0.99
Silver, total	ug/L	0	45					4.0000	nonpar	***	0.99
Thallium, total	ug/L	0	45					2.0000	nonpar	***	0.99
Vanadium, total	ug/L	0	45					20.0000	nonpar	***	0.99
Zinc, total	ug/L	8	44					32.0000	nonpar		0.99

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

For transformed data, mean and SD in transformed units and prediction limit in original units.

All sample sizes and statistics are based on outlier free data.

For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 6

**Dixon's Test Outliers
1% Significance Level**

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Zinc, total	ug/L	MW-44	03/16/2022	69.2000		03/16/2022-03/10/2025	5	0.7819

N = Total number of independent measurements in background at each well.

Date Range = Dates of the first and last measurements included in background at each well.

Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table 8

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Selenium, total	ug/L	GWD-3	08/01/2024	ND	4.0000		4.0000
Selenium, total	ug/L	GWD-3	09/25/2024		4.0000	**	4.0000
Selenium, total	ug/L	GWD-3	03/10/2025	ND	4.0000		4.0000
Zinc, total	ug/L	GWD-3	08/01/2024		173.0000	*	32.0000
Zinc, total	ug/L	GWD-3	09/25/2024	ND	20.0000		32.0000
Zinc, total	ug/L	GWD-3	03/10/2025		120.0000	*	32.0000
Zinc, total	ug/L	GWD-4	08/01/2024		67.2000	*	32.0000
Zinc, total	ug/L	GWD-4	09/25/2024		106.0000	*	32.0000
Zinc, total	ug/L	GWD-4	11/25/2024		127.0000	*	32.0000
Zinc, total	ug/L	GWD-4	03/10/2025		58.9000	*	32.0000
Arsenic, total	ug/L	MW-10	04/16/2008	ND	5.0000		5.6000
Arsenic, total	ug/L	MW-10	06/17/2008	ND	5.0000		5.6000
Arsenic, total	ug/L	MW-10	08/20/2008	ND	5.0000		5.6000
Arsenic, total	ug/L	MW-10	10/16/2008		4.5000		5.6000
Arsenic, total	ug/L	MW-10	12/04/2008	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-10	03/16/2009	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-10	09/24/2009	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-10	04/19/2010	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-10	09/29/2010		20.0000	*	5.6000
Arsenic, total	ug/L	MW-10	05/03/2011	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-10	10/10/2011	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-10	04/23/2012		10.2000	*	5.6000
Arsenic, total	ug/L	MW-10	09/10/2012	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-10	04/04/2013		6.8000	*	5.6000
Arsenic, total	ug/L	MW-10	10/10/2013	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-10	04/22/2014		10.5000	*	5.6000
Arsenic, total	ug/L	MW-10	09/17/2014		18.2000	*	5.6000
Arsenic, total	ug/L	MW-10	04/28/2015		6.5000	*	5.6000
Arsenic, total	ug/L	MW-10	10/06/2015		7.1000	*	5.6000
Arsenic, total	ug/L	MW-10	04/23/2016		16.7000	*	5.6000
Arsenic, total	ug/L	MW-10	09/01/2016		9.2000	*	5.6000
Arsenic, total	ug/L	MW-10	03/21/2017	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-10	10/13/2017		18.2000	*	5.6000
Arsenic, total	ug/L	MW-10	03/09/2018		7.7000	*	5.6000
Arsenic, total	ug/L	MW-10	09/06/2018		47.8000	*	5.6000
Arsenic, total	ug/L	MW-10	03/07/2019		4.1000		5.6000
Arsenic, total	ug/L	MW-10	09/26/2019		11.3000	*	5.6000
Arsenic, total	ug/L	MW-10	04/02/2020		38.6000	*	5.6000
Arsenic, total	ug/L	MW-10	09/17/2020	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-10	03/25/2021		8.7000	*	5.6000
Arsenic, total	ug/L	MW-10	09/16/2021	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-10	03/16/2022		26.6000	*	5.6000
Arsenic, total	ug/L	MW-10	09/01/2022	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-10	03/24/2023	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-10	09/07/2023	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-10	03/18/2024	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-10	09/25/2024		5.2000		5.6000
Arsenic, total	ug/L	MW-10	03/10/2025		10.8000	*	5.6000
Cadmium, total	ug/L	MW-13	04/16/2008	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-13	06/17/2008	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-13	08/20/2008	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-13	10/16/2008	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-13	12/04/2008	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-13	03/16/2009	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-13	09/24/2009	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-13	04/19/2010	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-13	09/29/2010	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-13	05/03/2011	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-13	10/10/2011	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-13	04/23/2012	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-13	09/10/2012	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-13	04/04/2013	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-13	10/10/2013	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-13	04/22/2014	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-13	09/17/2014	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-13	04/28/2015	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-13	10/06/2015	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-13	04/23/2016	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-13	09/01/2016	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-13	03/22/2017	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-13	10/13/2017	ND	0.8000		1.4000

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Cadmium, total	ug/L	MW-13	03/09/2018	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-13	09/06/2018	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-13	03/07/2019	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-13	09/26/2019	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-13	04/02/2020	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-13	09/17/2020	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-13	03/25/2021	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-13	09/16/2021	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-13	03/16/2022	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-13	09/01/2022	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-13	03/24/2023	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-13	09/07/2023	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-13	03/18/2024	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-13	09/25/2024	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-13	03/11/2025		2.6000 *	1.4000
Arsenic, total	ug/L	MW-16	04/16/2008		39.0000 *	5.6000
Arsenic, total	ug/L	MW-16	06/17/2008		28.0000 *	5.6000
Arsenic, total	ug/L	MW-16	08/20/2008		35.0000 *	5.6000
Arsenic, total	ug/L	MW-16	10/16/2008		36.8000 *	5.6000
Arsenic, total	ug/L	MW-16	12/04/2008		40.1000 *	5.6000
Arsenic, total	ug/L	MW-16	03/16/2009		37.8000 *	5.6000
Arsenic, total	ug/L	MW-16	09/24/2009		33.0000 *	5.6000
Arsenic, total	ug/L	MW-16	04/19/2010		33.9000 *	5.6000
Arsenic, total	ug/L	MW-16	09/29/2010		32.0000 *	5.6000
Arsenic, total	ug/L	MW-16	05/03/2011		33.8000 *	5.6000
Arsenic, total	ug/L	MW-16	10/11/2011		39.0000 *	5.6000
Arsenic, total	ug/L	MW-16	04/23/2012		42.4000 *	5.6000
Arsenic, total	ug/L	MW-16	09/10/2012		39.5000 *	5.6000
Arsenic, total	ug/L	MW-16	04/04/2013		23.1000 *	5.6000
Arsenic, total	ug/L	MW-16	10/11/2013		35.1000 *	5.6000
Arsenic, total	ug/L	MW-16	04/23/2014		37.2000 *	5.6000
Arsenic, total	ug/L	MW-16	09/18/2014		34.3000 *	5.6000
Arsenic, total	ug/L	MW-16	04/29/2015		38.5000 *	5.6000
Arsenic, total	ug/L	MW-16	10/06/2015	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-16	04/23/2016	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-16	09/01/2016	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-16	03/22/2017		9.3000 *	5.6000
Arsenic, total	ug/L	MW-16	10/13/2017		19.0000 *	5.6000
Arsenic, total	ug/L	MW-16	03/09/2018	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-16	09/06/2018	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-16	09/26/2019		6.3000 *	5.6000
Arsenic, total	ug/L	MW-16	04/02/2020		9.3000 *	5.6000
Arsenic, total	ug/L	MW-16	09/17/2020		6.5000 *	5.6000
Arsenic, total	ug/L	MW-16	03/25/2021		21.2000 *	5.6000
Arsenic, total	ug/L	MW-16	09/16/2021		10.4000 *	5.6000
Arsenic, total	ug/L	MW-16	03/16/2022		26.5000 *	5.6000
Arsenic, total	ug/L	MW-16	09/01/2022		4.7000	5.6000
Arsenic, total	ug/L	MW-16	03/24/2023		4.3000	5.6000
Arsenic, total	ug/L	MW-16	09/07/2023	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-16	03/18/2024		20.4000 *	5.6000
Arsenic, total	ug/L	MW-16	09/25/2024		26.2000 *	5.6000
Arsenic, total	ug/L	MW-16	03/10/2025		24.0000 *	5.6000
Barium, total	ug/L	MW-16	04/16/2008		1150.0000 *	748.3411
Barium, total	ug/L	MW-16	06/17/2008		1280.0000 *	748.3411
Barium, total	ug/L	MW-16	08/20/2008		1360.0000 *	748.3411
Barium, total	ug/L	MW-16	10/16/2008		1280.0000 *	748.3411
Barium, total	ug/L	MW-16	12/04/2008		296.0000	748.3411
Barium, total	ug/L	MW-16	03/16/2009		1540.0000 *	748.3411
Barium, total	ug/L	MW-16	09/24/2009		1070.0000 *	748.3411
Barium, total	ug/L	MW-16	04/19/2010		1230.0000 *	748.3411
Barium, total	ug/L	MW-16	09/29/2010		1390.0000 *	748.3411
Barium, total	ug/L	MW-16	05/03/2011		1260.0000 *	748.3411
Barium, total	ug/L	MW-16	10/11/2011		1410.0000 *	748.3411
Barium, total	ug/L	MW-16	04/23/2012		1270.0000 *	748.3411
Barium, total	ug/L	MW-16	09/10/2012		1150.0000 *	748.3411
Barium, total	ug/L	MW-16	04/04/2013		1080.0000 *	748.3411
Barium, total	ug/L	MW-16	10/11/2013		1250.0000 *	748.3411
Barium, total	ug/L	MW-16	04/23/2014		1110.0000 *	748.3411
Barium, total	ug/L	MW-16	09/18/2014		1130.0000 *	748.3411
Barium, total	ug/L	MW-16	04/29/2015		1370.0000 *	748.3411
Barium, total	ug/L	MW-16	10/06/2015		790.0000 *	748.3411

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Barium, total	ug/L	MW-16	04/23/2016		779.0000	*	748.3411
Barium, total	ug/L	MW-16	09/01/2016		711.0000		748.3411
Barium, total	ug/L	MW-16	03/22/2017		867.0000	*	748.3411
Barium, total	ug/L	MW-16	10/13/2017		1020.0000	*	748.3411
Barium, total	ug/L	MW-16	01/12/2018		818.0000	*	748.3411
Barium, total	ug/L	MW-16	03/09/2018		668.0000		748.3411
Barium, total	ug/L	MW-16	09/06/2018		719.0000		748.3411
Barium, total	ug/L	MW-16	09/26/2019		796.0000	*	748.3411
Barium, total	ug/L	MW-16	04/02/2020		925.0000	*	748.3411
Barium, total	ug/L	MW-16	09/17/2020		806.0000	*	748.3411
Barium, total	ug/L	MW-16	03/25/2021		1010.0000	*	748.3411
Barium, total	ug/L	MW-16	09/16/2021		798.0000	*	748.3411
Barium, total	ug/L	MW-16	03/16/2022		1010.0000	*	748.3411
Barium, total	ug/L	MW-16	09/01/2022		655.0000		748.3411
Barium, total	ug/L	MW-16	03/24/2023		481.0000		748.3411
Barium, total	ug/L	MW-16	09/07/2023		311.0000		748.3411
Barium, total	ug/L	MW-16	03/18/2024		713.0000		748.3411
Barium, total	ug/L	MW-16	09/25/2024		756.0000	*	748.3411
Barium, total	ug/L	MW-16	03/10/2025		697.0000		748.3411
Arsenic, total	ug/L	MW-18	04/19/2010		64.6000	*	5.6000
Arsenic, total	ug/L	MW-18	05/27/2010		19.9000	*	5.6000
Arsenic, total	ug/L	MW-18	07/28/2010		29.0000	*	5.6000
Arsenic, total	ug/L	MW-18	09/29/2010		173.0000	*	5.6000
Arsenic, total	ug/L	MW-18	11/03/2010		225.0000	*	5.6000
Arsenic, total	ug/L	MW-18	05/04/2011		11.4000	*	5.6000
Arsenic, total	ug/L	MW-18	10/11/2011		8.9000	*	5.6000
Arsenic, total	ug/L	MW-18	04/23/2012		29.0000	*	5.6000
Arsenic, total	ug/L	MW-18	09/11/2012		15.0000	*	5.6000
Arsenic, total	ug/L	MW-18	04/04/2013		9.6000	*	5.6000
Arsenic, total	ug/L	MW-18	10/11/2013		17.7000	*	5.6000
Arsenic, total	ug/L	MW-18	04/23/2014		9.0000	*	5.6000
Arsenic, total	ug/L	MW-18	09/17/2014		22.0000	*	5.6000
Arsenic, total	ug/L	MW-18	04/28/2015		45.9000	*	5.6000
Arsenic, total	ug/L	MW-18	10/06/2015		39.2000	*	5.6000
Arsenic, total	ug/L	MW-18	04/23/2016		51.8000	*	5.6000
Arsenic, total	ug/L	MW-18	09/01/2016		81.4000	*	5.6000
Arsenic, total	ug/L	MW-18	03/21/2017		49.7000	*	5.6000
Arsenic, total	ug/L	MW-18	10/13/2017		50.1000	*	5.6000
Arsenic, total	ug/L	MW-18	03/09/2018		46.1000	*	5.6000
Arsenic, total	ug/L	MW-18	09/06/2018		74.4000	*	5.6000
Arsenic, total	ug/L	MW-18	03/07/2019		87.2000	*	5.6000
Arsenic, total	ug/L	MW-18	09/26/2019		99.4000	*	5.6000
Arsenic, total	ug/L	MW-18	04/02/2020		81.7000	*	5.6000
Arsenic, total	ug/L	MW-18	09/17/2020		34.8000	*	5.6000
Arsenic, total	ug/L	MW-18	03/25/2021		9.6000	*	5.6000
Arsenic, total	ug/L	MW-18	09/16/2021		36.0000	*	5.6000
Arsenic, total	ug/L	MW-18	03/16/2022		34.7000	*	5.6000
Arsenic, total	ug/L	MW-18	09/01/2022		24.1000	*	5.6000
Arsenic, total	ug/L	MW-18	03/24/2023		67.4000	*	5.6000
Arsenic, total	ug/L	MW-18	09/07/2023		26.9000	*	5.6000
Arsenic, total	ug/L	MW-18	03/18/2024		23.7000	*	5.6000
Arsenic, total	ug/L	MW-18	09/25/2024		43.6000	*	5.6000
Arsenic, total	ug/L	MW-18	03/10/2025		31.2000	*	5.6000
Copper, total	ug/L	MW-18	04/19/2010		63.7000	*	11.6000
Copper, total	ug/L	MW-18	05/27/2010		16.0000	*	11.6000
Copper, total	ug/L	MW-18	07/28/2010		21.1000	*	11.6000
Copper, total	ug/L	MW-18	09/29/2010		138.0000	*	11.6000
Copper, total	ug/L	MW-18	11/03/2010		158.0000	*	11.6000
Copper, total	ug/L	MW-18	05/04/2011		8.0000		11.6000
Copper, total	ug/L	MW-18	10/11/2011	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	04/23/2012		9.9000		11.6000
Copper, total	ug/L	MW-18	09/11/2012	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	04/04/2013	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	10/11/2013	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	04/23/2014	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	09/17/2014	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	04/28/2015	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	10/06/2015	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	04/23/2016	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	09/01/2016	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	03/21/2017	ND	4.0000		11.6000

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Copper, total	ug/L	MW-18	10/13/2017	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	03/09/2018	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	09/06/2018	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	03/07/2019	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	09/26/2019	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	04/02/2020	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	09/17/2020	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	03/25/2021	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	09/16/2021	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	03/16/2022	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	09/01/2022	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	03/24/2023	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	09/07/2023	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	03/18/2024	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	09/25/2024	ND	4.0000		11.6000
Copper, total	ug/L	MW-18	03/10/2025		16.2000	*	11.6000
Arsenic, total	ug/L	MW-20	04/19/2010		165.0000	*	5.6000
Arsenic, total	ug/L	MW-20	05/27/2010		144.0000	*	5.6000
Arsenic, total	ug/L	MW-20	07/28/2010		165.0000	*	5.6000
Arsenic, total	ug/L	MW-20	09/29/2010		86.8000	*	5.6000
Arsenic, total	ug/L	MW-20	11/03/2010		64.3000	*	5.6000
Arsenic, total	ug/L	MW-20	05/04/2011		47.4000	*	5.6000
Arsenic, total	ug/L	MW-20	10/11/2011		60.7000	*	5.6000
Arsenic, total	ug/L	MW-20	04/24/2012		44.9000	*	5.6000
Arsenic, total	ug/L	MW-20	09/11/2012		59.8000	*	5.6000
Arsenic, total	ug/L	MW-20	04/05/2013		37.7000	*	5.6000
Arsenic, total	ug/L	MW-20	10/11/2013		61.7000	*	5.6000
Arsenic, total	ug/L	MW-20	04/23/2014		55.2000	*	5.6000
Arsenic, total	ug/L	MW-20	09/18/2014		75.2000	*	5.6000
Arsenic, total	ug/L	MW-20	04/28/2015		45.5000	*	5.6000
Arsenic, total	ug/L	MW-20	10/06/2015		81.7000	*	5.6000
Arsenic, total	ug/L	MW-20	04/23/2016		81.5000	*	5.6000
Arsenic, total	ug/L	MW-20	09/01/2016		77.1000	*	5.6000
Arsenic, total	ug/L	MW-20	03/21/2017		79.1000	*	5.6000
Arsenic, total	ug/L	MW-20	10/13/2017		96.8000	*	5.6000
Arsenic, total	ug/L	MW-20	03/09/2018		83.4000	*	5.6000
Arsenic, total	ug/L	MW-20	09/06/2018		99.6000	*	5.6000
Arsenic, total	ug/L	MW-20	03/07/2019		78.4000	*	5.6000
Arsenic, total	ug/L	MW-20	09/26/2019		83.6000	*	5.6000
Arsenic, total	ug/L	MW-20	04/02/2020		65.2000	*	5.6000
Arsenic, total	ug/L	MW-20	09/17/2020		87.1000	*	5.6000
Arsenic, total	ug/L	MW-20	03/25/2021		106.0000	*	5.6000
Arsenic, total	ug/L	MW-20	09/16/2021		87.8000	*	5.6000
Arsenic, total	ug/L	MW-20	03/16/2022		127.0000	*	5.6000
Arsenic, total	ug/L	MW-20	09/01/2022		133.0000	*	5.6000
Arsenic, total	ug/L	MW-20	03/24/2023		94.6000	*	5.6000
Arsenic, total	ug/L	MW-20	09/07/2023		83.4000	*	5.6000
Arsenic, total	ug/L	MW-20	03/18/2024		112.0000	*	5.6000
Arsenic, total	ug/L	MW-20	09/25/2024		44.1000	*	5.6000
Arsenic, total	ug/L	MW-20	03/10/2025		54.9000	*	5.6000
Barium, total	ug/L	MW-20	04/19/2010		3790.0000	*	748.3411
Barium, total	ug/L	MW-20	05/27/2010		4800.0000	*	748.3411
Barium, total	ug/L	MW-20	07/28/2010		4410.0000	*	748.3411
Barium, total	ug/L	MW-20	09/29/2010		3800.0000	*	748.3411
Barium, total	ug/L	MW-20	11/03/2010		3500.0000	*	748.3411
Barium, total	ug/L	MW-20	05/04/2011		2990.0000	*	748.3411
Barium, total	ug/L	MW-20	10/11/2011		3010.0000	*	748.3411
Barium, total	ug/L	MW-20	04/24/2012		1850.0000	*	748.3411
Barium, total	ug/L	MW-20	09/11/2012		2060.0000	*	748.3411
Barium, total	ug/L	MW-20	04/05/2013		2910.0000	*	748.3411
Barium, total	ug/L	MW-20	10/11/2013		2470.0000	*	748.3411
Barium, total	ug/L	MW-20	04/23/2014		1830.0000	*	748.3411
Barium, total	ug/L	MW-20	09/18/2014		2370.0000	*	748.3411
Barium, total	ug/L	MW-20	04/28/2015		2390.0000	*	748.3411
Barium, total	ug/L	MW-20	10/06/2015		2490.0000	*	748.3411
Barium, total	ug/L	MW-20	04/23/2016		2260.0000	*	748.3411
Barium, total	ug/L	MW-20	09/01/2016		2140.0000	*	748.3411
Barium, total	ug/L	MW-20	03/21/2017		2140.0000	*	748.3411
Barium, total	ug/L	MW-20	10/13/2017		2340.0000	*	748.3411
Barium, total	ug/L	MW-20	03/09/2018		2010.0000	*	748.3411
Barium, total	ug/L	MW-20	09/06/2018		2360.0000	*	748.3411

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Barium, total	ug/L	MW-20	03/07/2019		2100.0000	*	748.3411
Barium, total	ug/L	MW-20	09/26/2019		2350.0000	*	748.3411
Barium, total	ug/L	MW-20	04/02/2020		2300.0000	*	748.3411
Barium, total	ug/L	MW-20	09/17/2020		1970.0000	*	748.3411
Barium, total	ug/L	MW-20	03/25/2021		1970.0000	*	748.3411
Barium, total	ug/L	MW-20	09/16/2021		2160.0000	*	748.3411
Barium, total	ug/L	MW-20	03/16/2022		1890.0000	*	748.3411
Barium, total	ug/L	MW-20	09/01/2022		2020.0000	*	748.3411
Barium, total	ug/L	MW-20	03/24/2023		2000.0000	*	748.3411
Barium, total	ug/L	MW-20	09/07/2023		1810.0000	*	748.3411
Barium, total	ug/L	MW-20	03/18/2024		2110.0000	*	748.3411
Barium, total	ug/L	MW-20	09/25/2024		1950.0000	*	748.3411
Barium, total	ug/L	MW-20	03/10/2025		1640.0000	*	748.3411
Copper, total	ug/L	MW-20	04/19/2010		169.0000	*	11.6000
Copper, total	ug/L	MW-20	05/27/2010		112.0000	*	11.6000
Copper, total	ug/L	MW-20	07/28/2010		117.0000	*	11.6000
Copper, total	ug/L	MW-20	09/29/2010		58.0000	*	11.6000
Copper, total	ug/L	MW-20	11/03/2010		23.4000	*	11.6000
Copper, total	ug/L	MW-20	05/04/2011		25.2000	*	11.6000
Copper, total	ug/L	MW-20	10/11/2011		6.1000		11.6000
Copper, total	ug/L	MW-20	04/24/2012	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	09/11/2012	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	04/05/2013	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	10/11/2013	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	04/23/2014		5.2000		11.6000
Copper, total	ug/L	MW-20	09/18/2014	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	04/28/2015	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	10/06/2015	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	04/23/2016	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	09/01/2016	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	03/21/2017	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	10/13/2017	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	03/09/2018	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	09/06/2018	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	03/07/2019	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	09/26/2019	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	04/02/2020	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	09/17/2020	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	03/25/2021	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	09/16/2021	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	03/16/2022	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	09/01/2022	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	03/24/2023	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	09/07/2023	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	03/18/2024	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	09/25/2024	ND	4.0000		11.6000
Copper, total	ug/L	MW-20	03/10/2025		26.4000	*	11.6000
Zinc, total	ug/L	MW-20	04/19/2010		690.0000	*	32.0000
Zinc, total	ug/L	MW-20	05/27/2010		357.0000	*	32.0000
Zinc, total	ug/L	MW-20	07/28/2010		374.0000	*	32.0000
Zinc, total	ug/L	MW-20	09/29/2010		189.0000	*	32.0000
Zinc, total	ug/L	MW-20	11/03/2010		79.5000	*	32.0000
Zinc, total	ug/L	MW-20	05/04/2011		93.2000	*	32.0000
Zinc, total	ug/L	MW-20	10/11/2011		22.4000		32.0000
Zinc, total	ug/L	MW-20	04/24/2012	ND	20.0000		32.0000
Zinc, total	ug/L	MW-20	09/11/2012	ND	20.0000		32.0000
Zinc, total	ug/L	MW-20	04/05/2013		8.0000		32.0000
Zinc, total	ug/L	MW-20	10/11/2013	ND	8.0000		32.0000
Zinc, total	ug/L	MW-20	04/23/2014		17.7000		32.0000
Zinc, total	ug/L	MW-20	09/18/2014		10.3000		32.0000
Zinc, total	ug/L	MW-20	04/28/2015	ND	20.0000		32.0000
Zinc, total	ug/L	MW-20	10/06/2015		8.0000		32.0000
Zinc, total	ug/L	MW-20	04/23/2016	ND	20.0000		32.0000
Zinc, total	ug/L	MW-20	09/01/2016	ND	8.0000		32.0000
Zinc, total	ug/L	MW-20	03/21/2017	ND	8.0000		32.0000
Zinc, total	ug/L	MW-20	10/13/2017	ND	8.0000		32.0000
Zinc, total	ug/L	MW-20	03/09/2018		8.2000		32.0000
Zinc, total	ug/L	MW-20	09/06/2018		84.5000	*	32.0000
Zinc, total	ug/L	MW-20	03/07/2019	ND	8.0000		32.0000
Zinc, total	ug/L	MW-20	09/26/2019		33.8000	*	32.0000
Zinc, total	ug/L	MW-20	04/02/2020	ND	20.0000		32.0000

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
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Constituent	Units	Well	Date		Result		Pred. Limit
Zinc, total	ug/L	MW-20	09/17/2020	ND	20.0000		32.0000
Zinc, total	ug/L	MW-20	03/25/2021	ND	20.0000		32.0000
Zinc, total	ug/L	MW-20	09/16/2021	ND	20.0000		32.0000
Zinc, total	ug/L	MW-20	03/16/2022	ND	20.0000		32.0000
Zinc, total	ug/L	MW-20	09/01/2022	ND	20.0000		32.0000
Zinc, total	ug/L	MW-20	03/24/2023	ND	20.0000		32.0000
Zinc, total	ug/L	MW-20	09/07/2023	ND	20.0000		32.0000
Zinc, total	ug/L	MW-20	03/18/2024	ND	20.0000		32.0000
Zinc, total	ug/L	MW-20	09/25/2024	ND	20.0000		32.0000
Zinc, total	ug/L	MW-20	03/10/2025		44.9000	*	32.0000
Cadmium, total	ug/L	MW-3	04/16/2008	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-3	06/17/2008	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-3	08/20/2008	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-3	10/16/2008		1.1000		1.4000
Cadmium, total	ug/L	MW-3	12/04/2008	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-3	03/16/2009	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-3	09/24/2009	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-3	04/19/2010	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-3	09/29/2010	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-3	05/03/2011	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	10/11/2011	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	04/23/2012	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	09/10/2012	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	04/04/2013	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	10/10/2013	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	04/22/2014	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	09/17/2014	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	04/28/2015	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	10/06/2015	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	04/23/2016	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	09/01/2016	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	03/21/2017	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	10/13/2017	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	03/09/2018	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	09/06/2018	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	03/07/2019	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	09/26/2019	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	04/02/2020	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	09/17/2020	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	03/25/2021	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	09/16/2021	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	03/16/2022	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	09/01/2022	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	03/24/2023	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	09/07/2023	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	03/18/2024	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	09/25/2024	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-3	03/10/2025		2.1000	*	1.4000
Arsenic, total	ug/L	MW-7	04/16/2008	ND	5.0000		5.6000
Arsenic, total	ug/L	MW-7	06/17/2008	ND	5.0000		5.6000
Arsenic, total	ug/L	MW-7	08/20/2008	ND	5.0000		5.6000
Arsenic, total	ug/L	MW-7	10/16/2008	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	12/04/2008	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	03/16/2009	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	09/24/2009	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	04/19/2010	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	09/29/2010	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	05/03/2011		4.3000		5.6000
Arsenic, total	ug/L	MW-7	10/10/2011	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	04/23/2012		4.9000		5.6000
Arsenic, total	ug/L	MW-7	09/10/2012	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	04/04/2013	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	10/10/2013	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	04/22/2014	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	09/17/2014	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	04/28/2015	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	10/06/2015	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	04/23/2016	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	09/01/2016	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	03/22/2017	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	10/13/2017	ND	4.0000		5.6000

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

**Historical Downgradient Data for Constituent-Well Combinations
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Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic, total	ug/L	MW-7	03/09/2018	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	09/06/2018	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	03/07/2019	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	09/26/2019		8.2000	*	5.6000
Arsenic, total	ug/L	MW-7	12/17/2019		4.7000		5.6000
Arsenic, total	ug/L	MW-7	04/02/2020	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	09/17/2020		6.9000	*	5.6000
Arsenic, total	ug/L	MW-7	12/03/2020		7.2000	*	5.6000
Arsenic, total	ug/L	MW-7	03/25/2021	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	09/16/2021	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	03/16/2022		4.3000		5.6000
Arsenic, total	ug/L	MW-7	09/01/2022		5.7000	*	5.6000
Arsenic, total	ug/L	MW-7	03/24/2023	ND	4.0000		5.6000
Arsenic, total	ug/L	MW-7	09/07/2023		8.8000	*	5.6000
Arsenic, total	ug/L	MW-7	03/18/2024		5.4000		5.6000
Arsenic, total	ug/L	MW-7	09/25/2024		9.0000	*	5.6000
Arsenic, total	ug/L	MW-7	03/10/2025		6.6000	*	5.6000
Cadmium, total	ug/L	MW-7	04/16/2008	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-7	06/17/2008	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-7	08/20/2008	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-7	10/16/2008	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-7	12/04/2008	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-7	03/16/2009	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-7	09/24/2009	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-7	04/19/2010	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-7	09/29/2010	ND	1.0000		1.4000
Cadmium, total	ug/L	MW-7	05/03/2011	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	10/10/2011	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	04/23/2012	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	09/10/2012	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	04/04/2013	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	10/10/2013	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	04/22/2014	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	09/17/2014	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	04/28/2015	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	10/06/2015	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	04/23/2016	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	09/01/2016	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	03/22/2017	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	10/13/2017	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	03/09/2018	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	09/06/2018	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	03/07/2019	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	09/26/2019	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	04/02/2020	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	09/17/2020	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	03/25/2021	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	09/16/2021	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	03/16/2022	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	09/01/2022	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	03/24/2023	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	09/07/2023	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	03/18/2024	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	09/25/2024	ND	0.8000		1.4000
Cadmium, total	ug/L	MW-7	03/10/2025		1.7000	*	1.4000

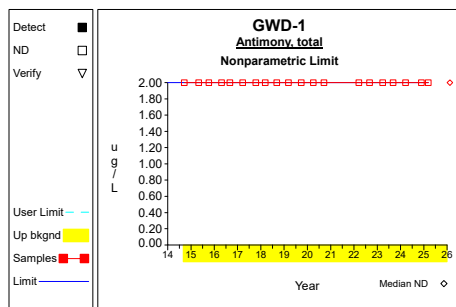
* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

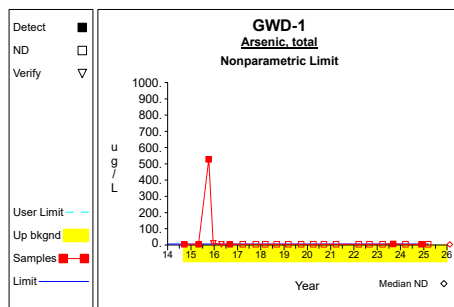
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

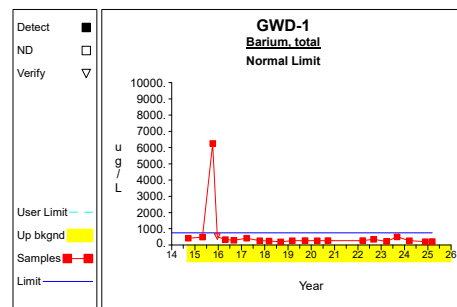
Up vs. Down Prediction Limits



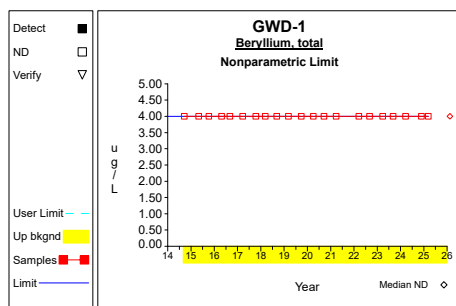
Graph 1



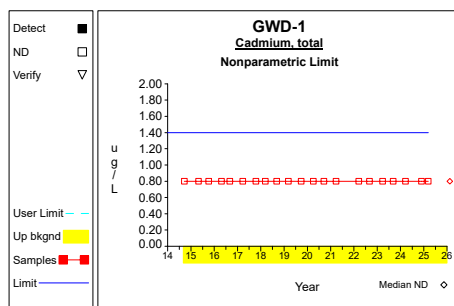
Graph 2



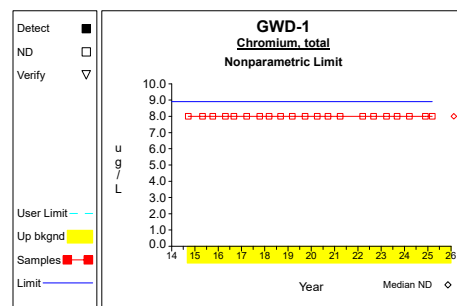
Graph 3



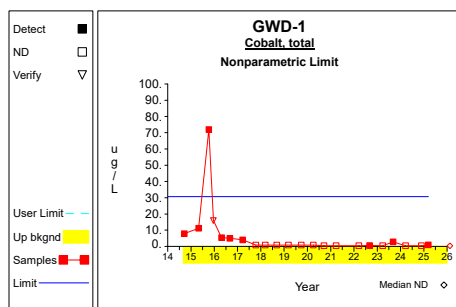
Graph 4



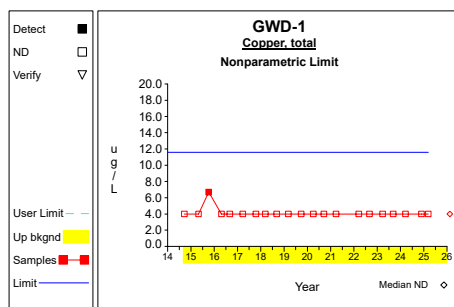
Graph 5



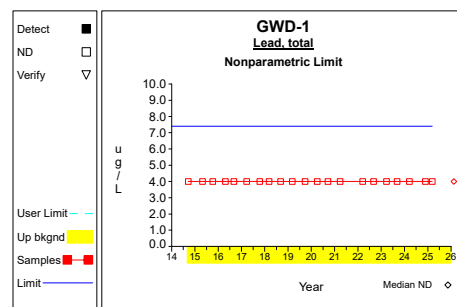
Graph 6



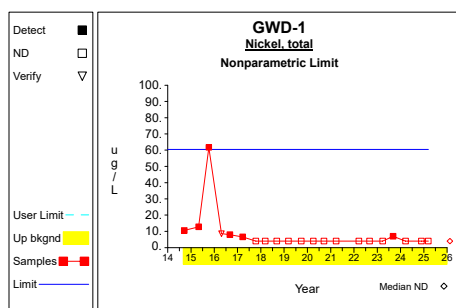
Graph 7



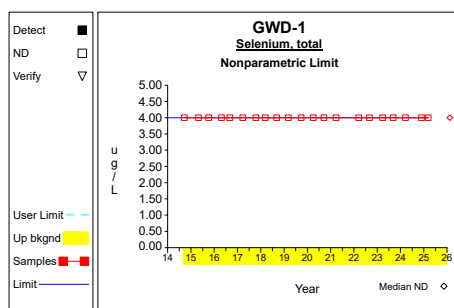
Graph 8



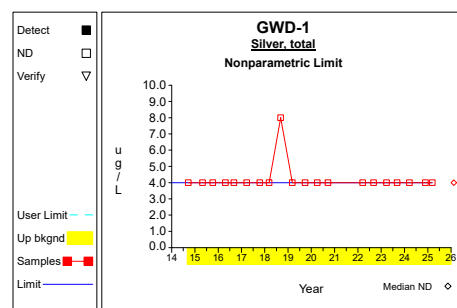
Graph 9



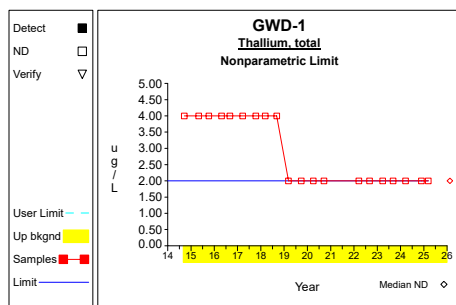
Graph 10



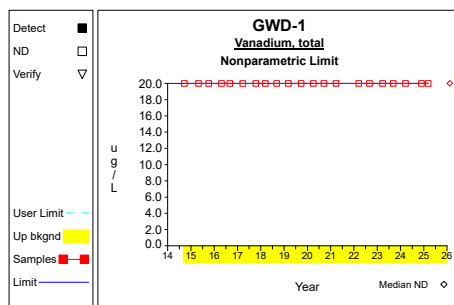
Graph 11



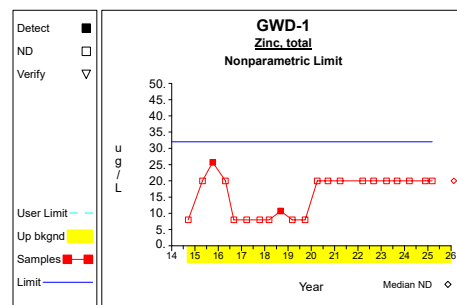
Graph 12



Graph 13

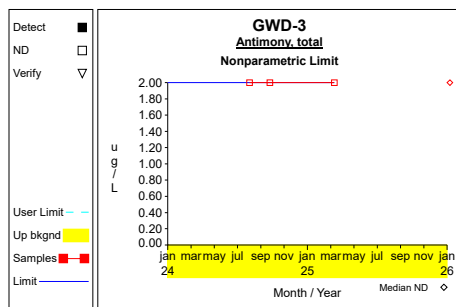


Graph 14

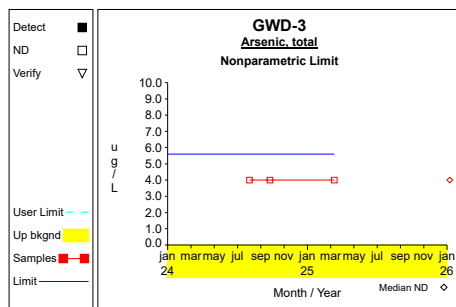


Graph 15

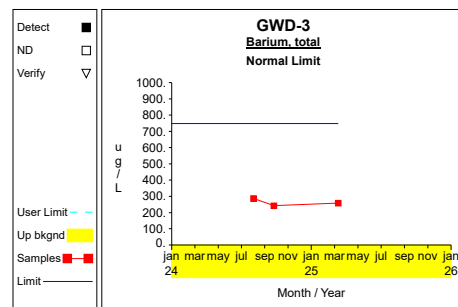
Up vs. Down Prediction Limits



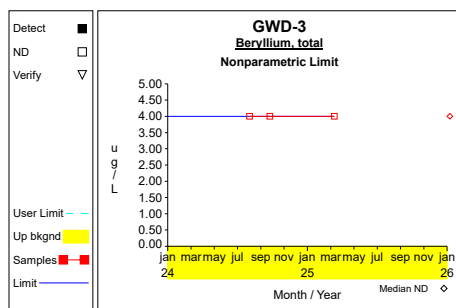
Graph 16



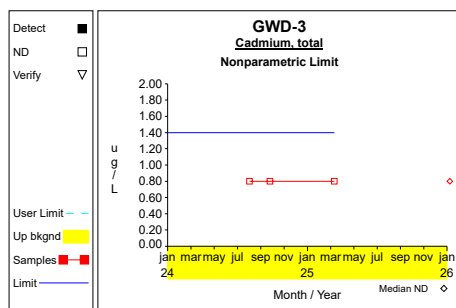
Graph 17



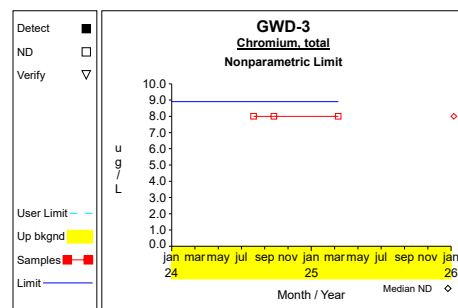
Graph 18



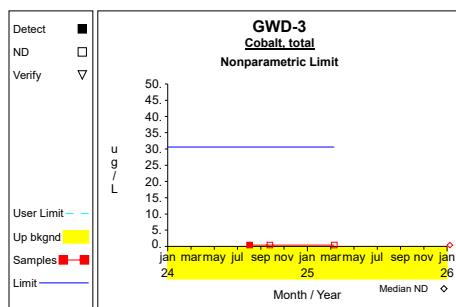
Graph 19



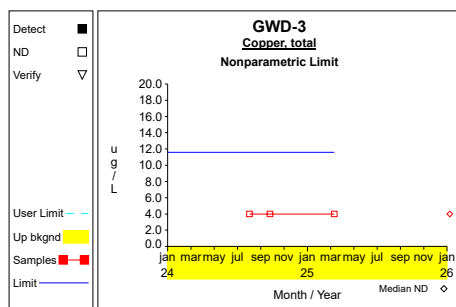
Graph 20



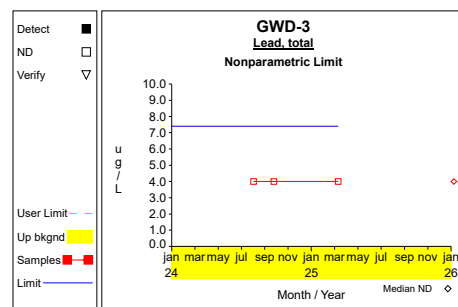
Graph 21



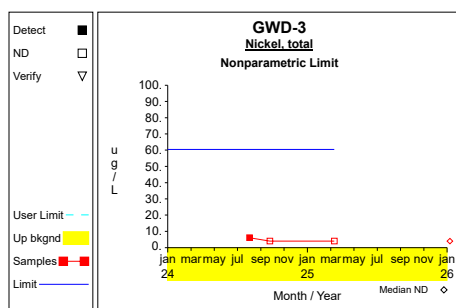
Graph 22



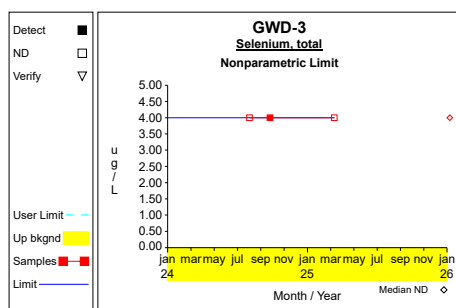
Graph 23



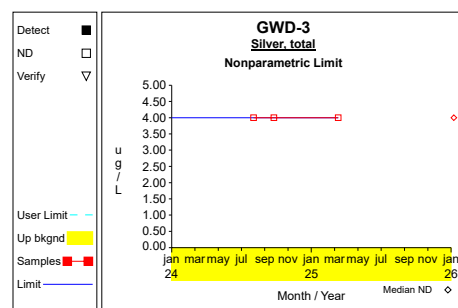
Graph 24



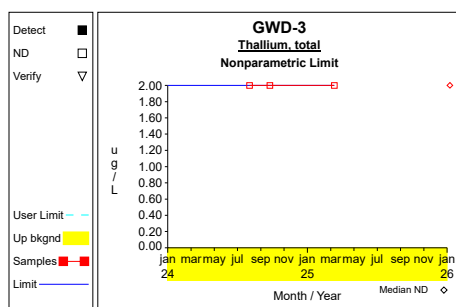
Graph 25



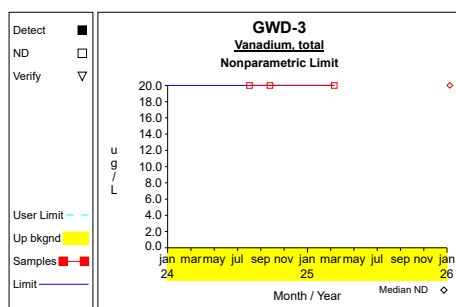
Graph 26



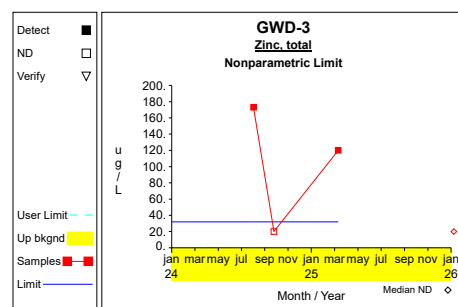
Graph 27



Graph 28

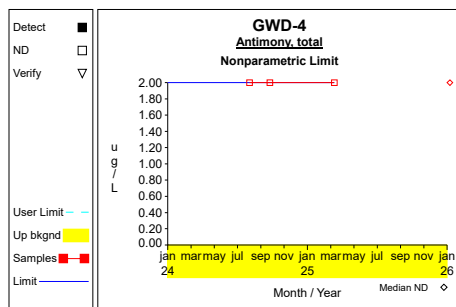


Graph 29

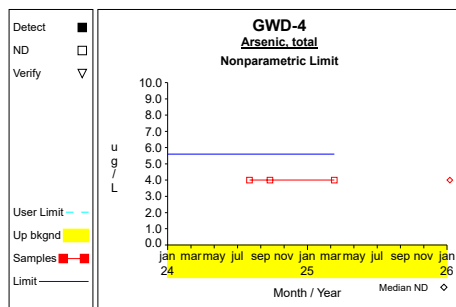


Graph 30

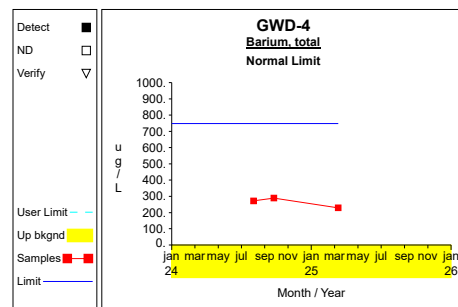
Up vs. Down Prediction Limits



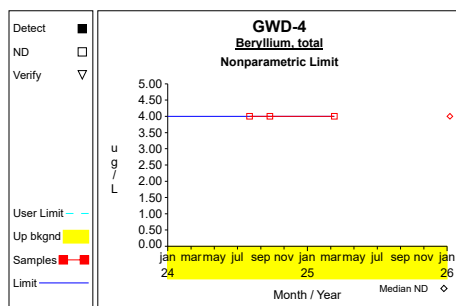
Graph 31



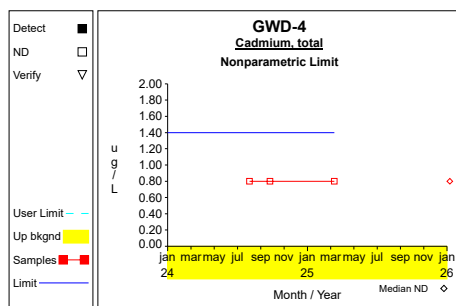
Graph 32



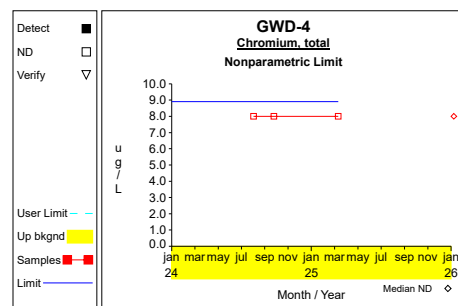
Graph 33



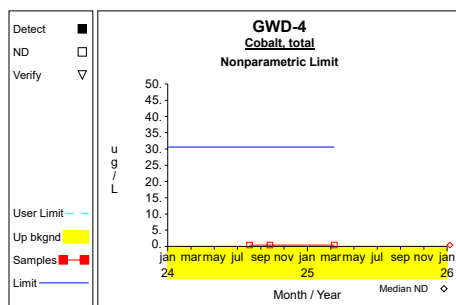
Graph 34



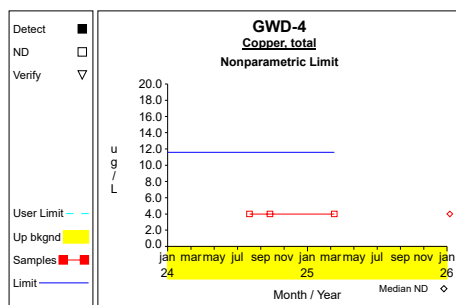
Graph 35



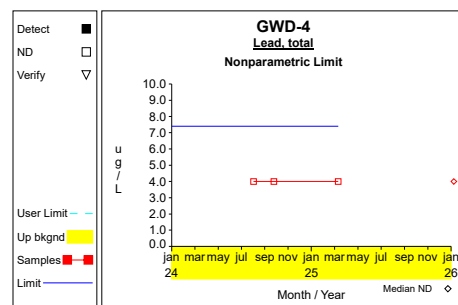
Graph 36



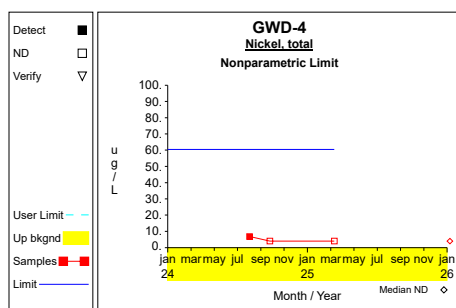
Graph 37



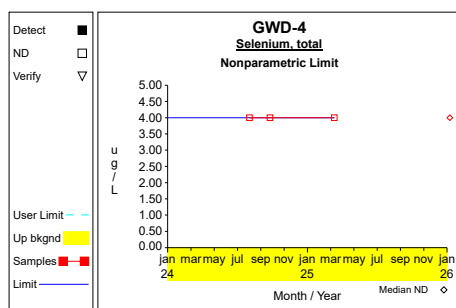
Graph 38



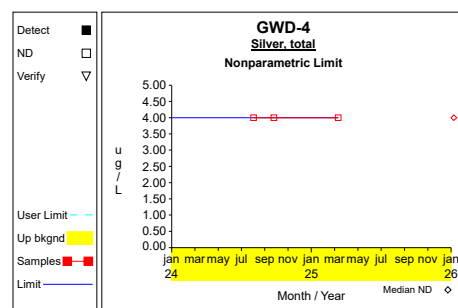
Graph 39



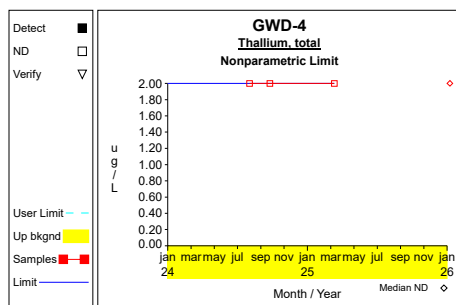
Graph 40



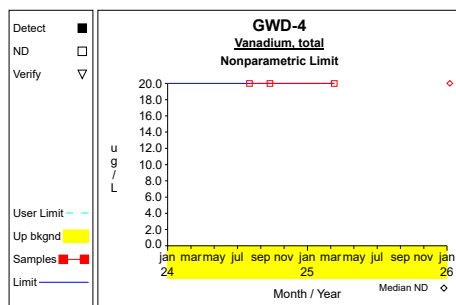
Graph 41



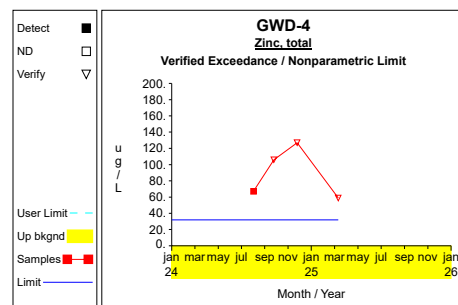
Graph 42



Graph 43

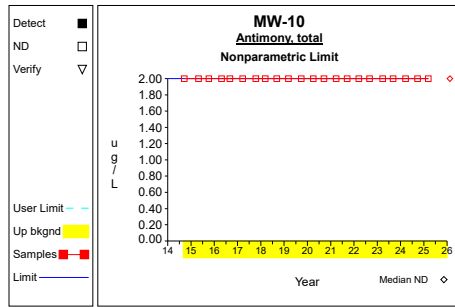


Graph 44

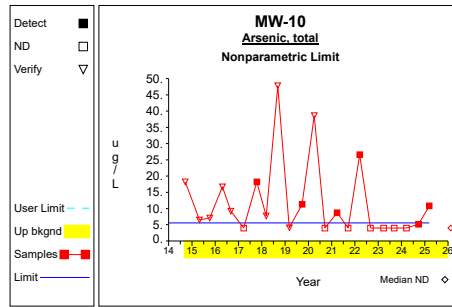


Graph 45

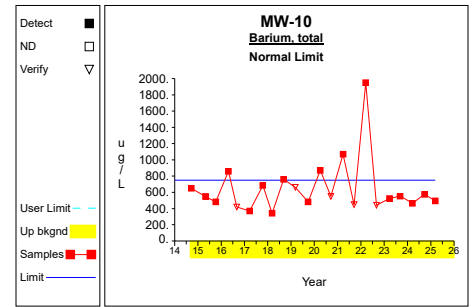
Up vs. Down Prediction Limits



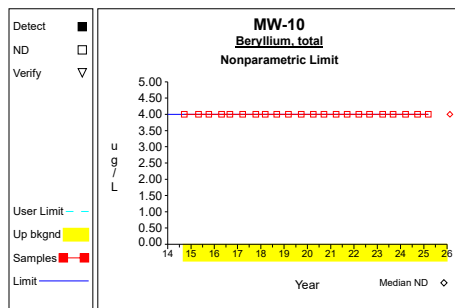
Graph 46



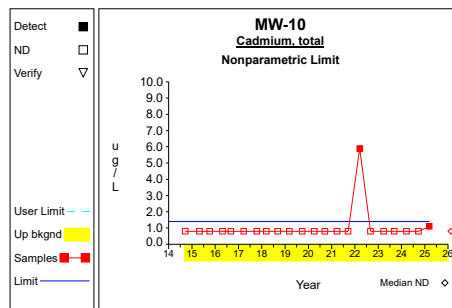
Graph 47



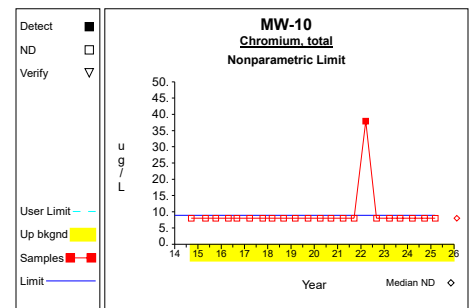
Graph 48



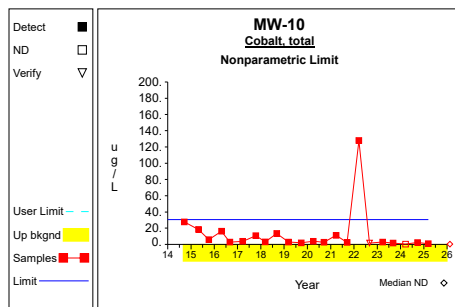
Graph 49



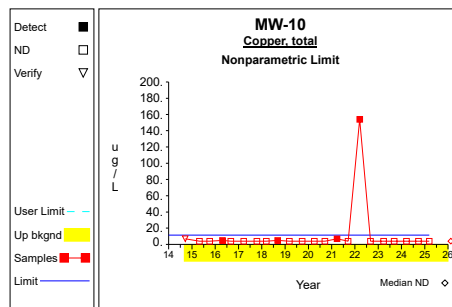
Graph 50



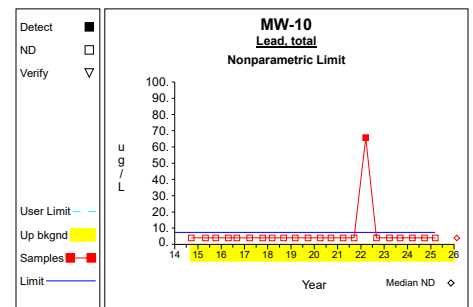
Graph 51



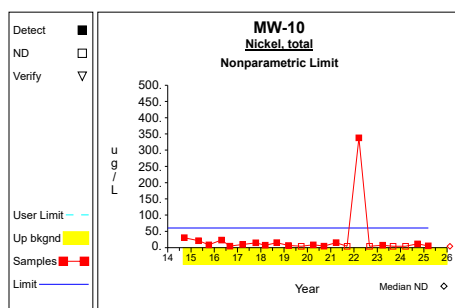
Graph 52



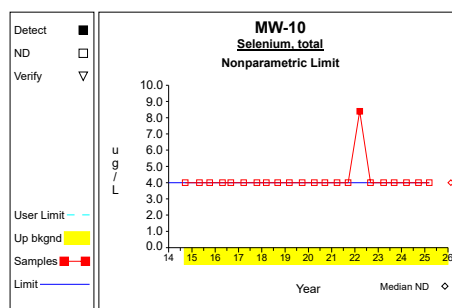
Graph 53



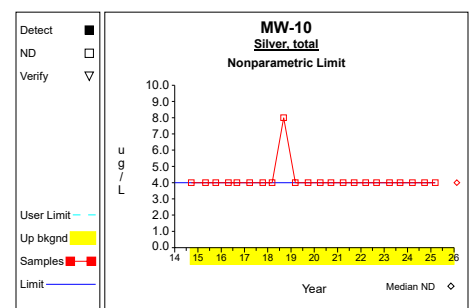
Graph 54



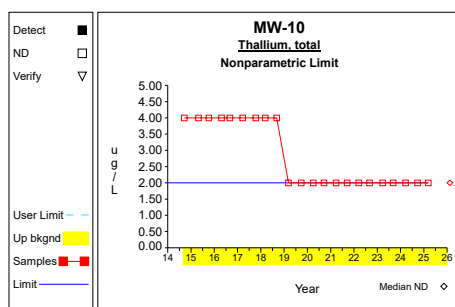
Graph 55



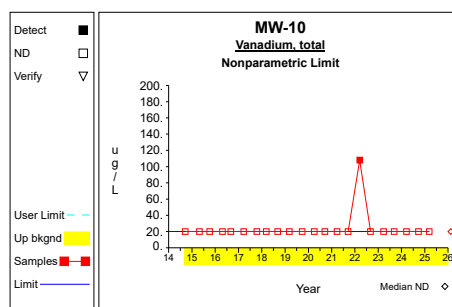
Graph 56



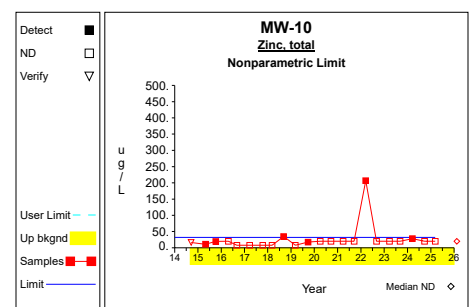
Graph 57



Graph 58

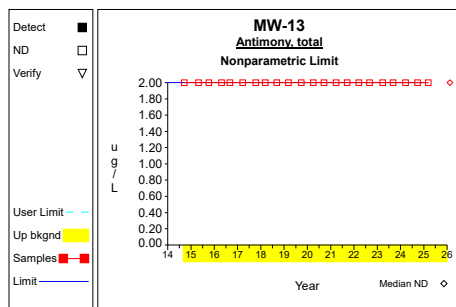


Graph 59

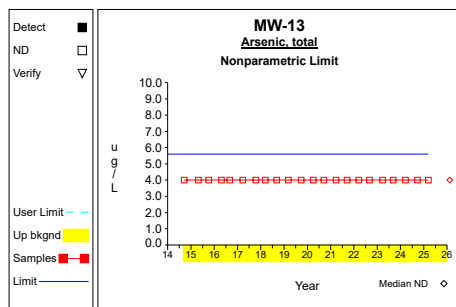


Graph 60

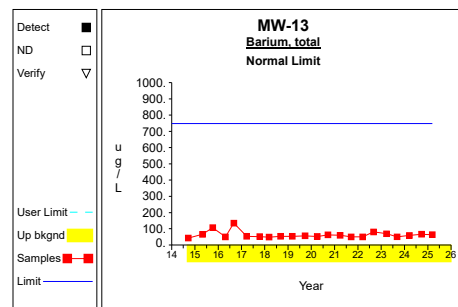
Up vs. Down Prediction Limits



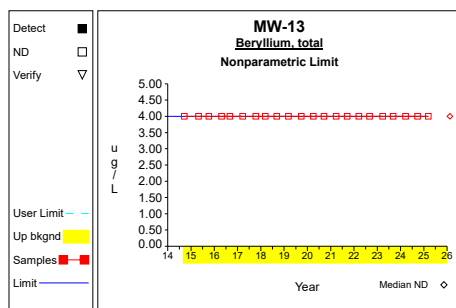
Graph 61



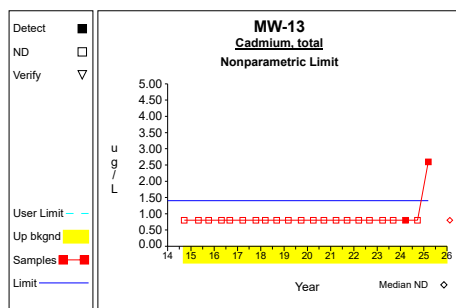
Graph 62



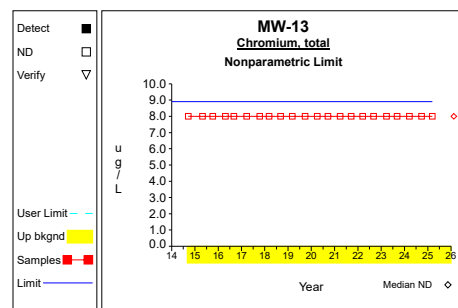
Graph 63



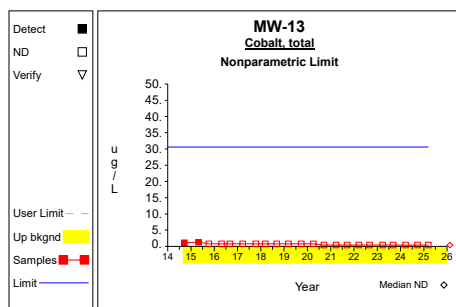
Graph 64



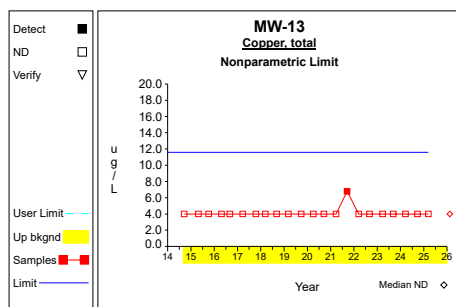
Graph 65



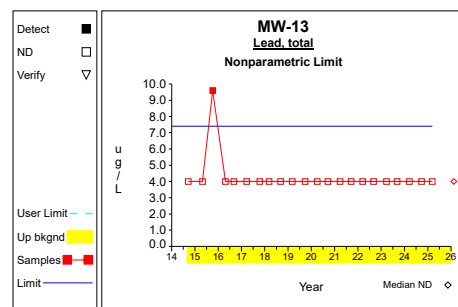
Graph 66



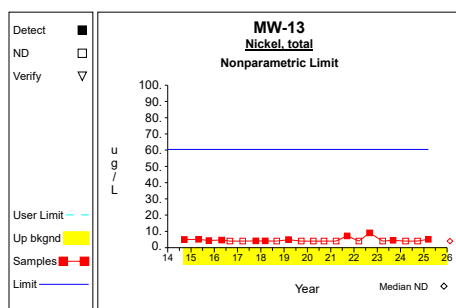
Graph 67



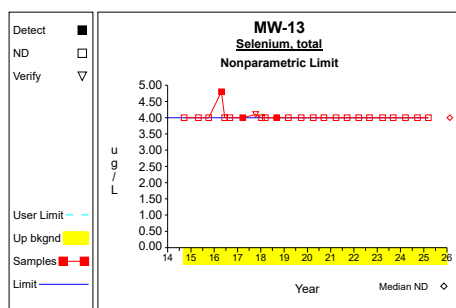
Graph 68



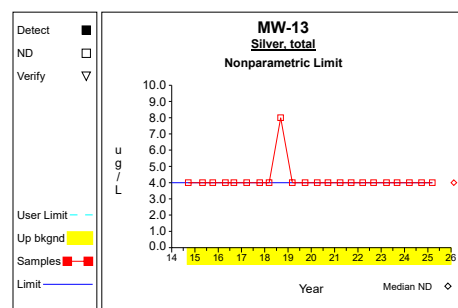
Graph 69



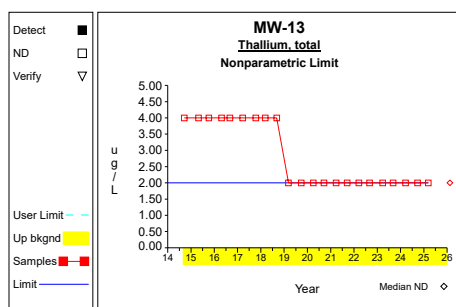
Graph 70



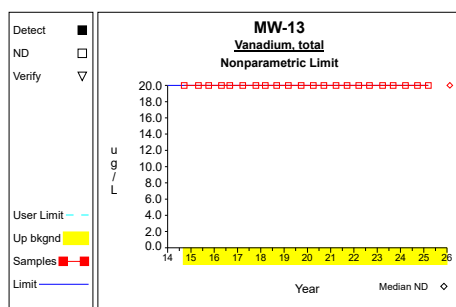
Graph 71



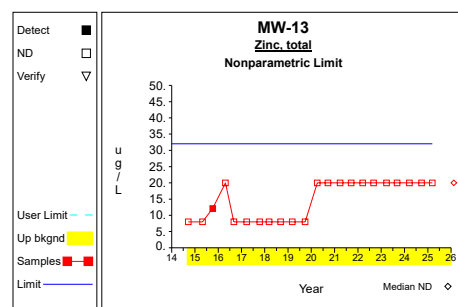
Graph 72



Graph 73

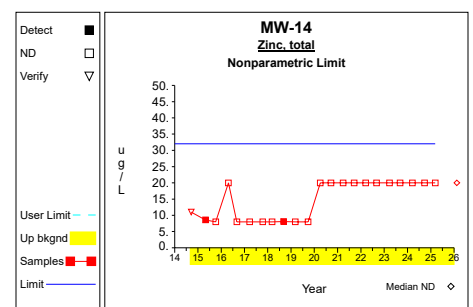
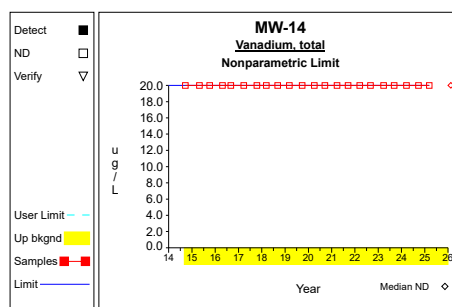
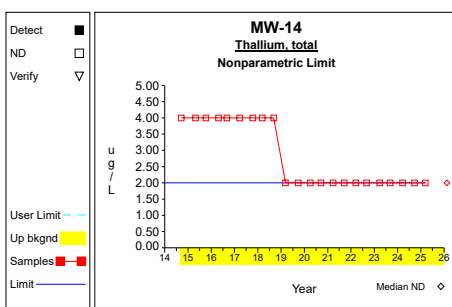
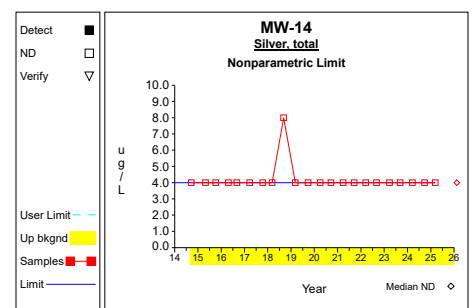
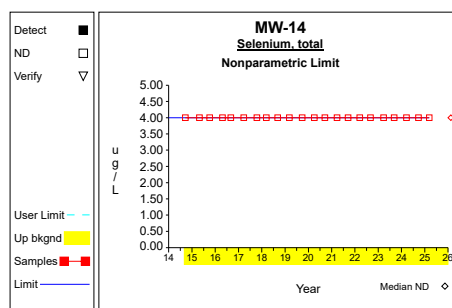
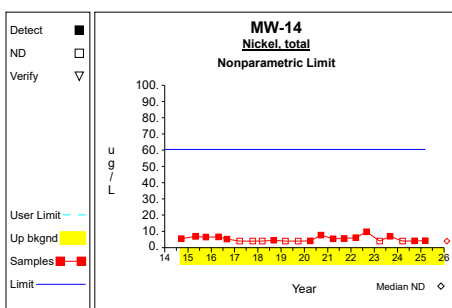
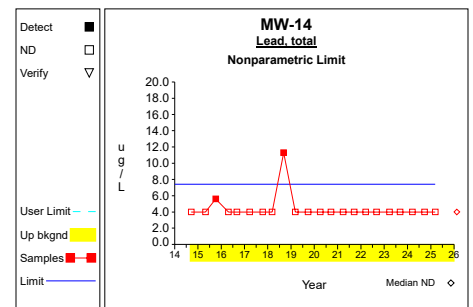
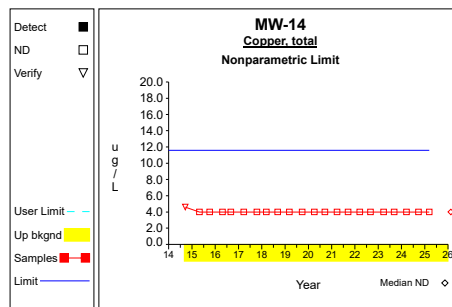
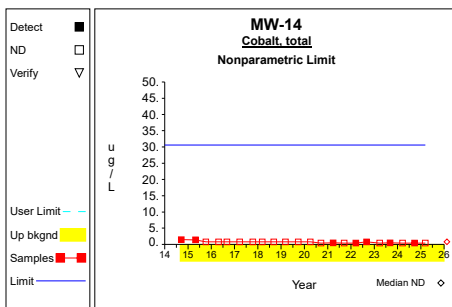
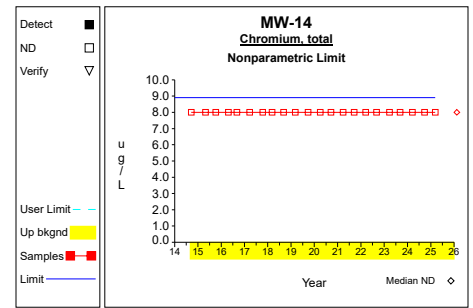
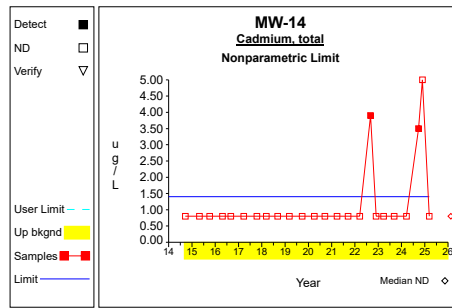
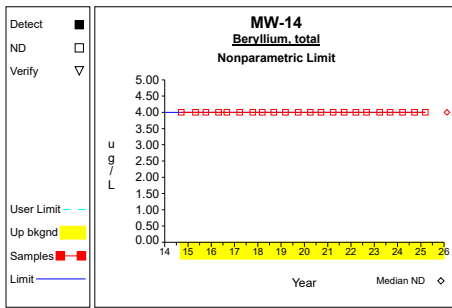
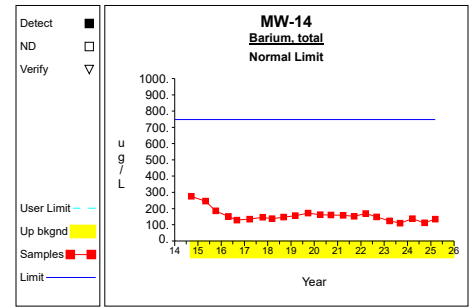
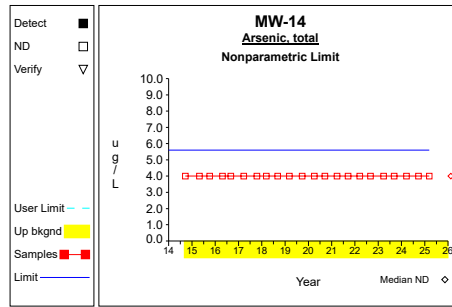
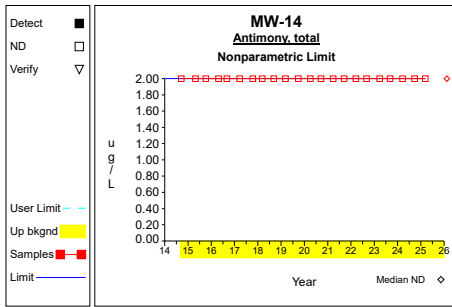


Graph 74

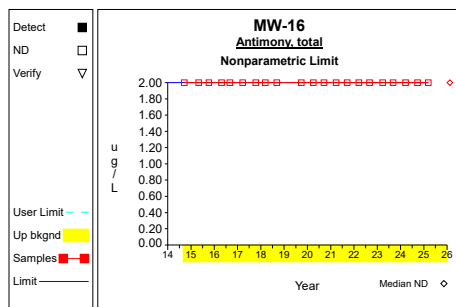


Graph 75

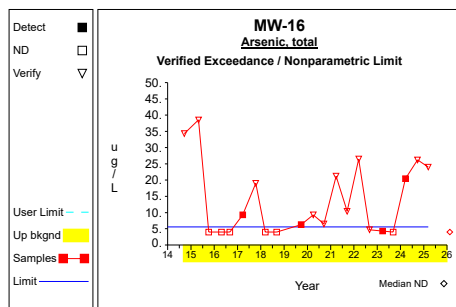
Up vs. Down Prediction Limits



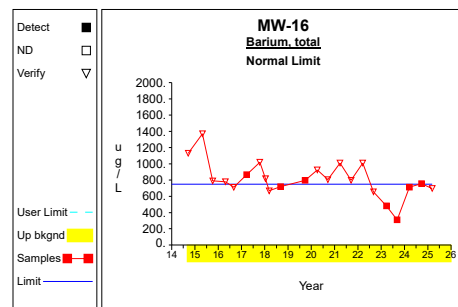
Up vs. Down Prediction Limits



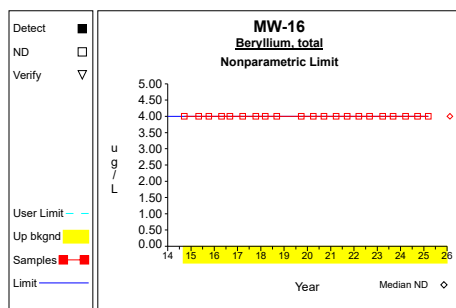
Graph 91



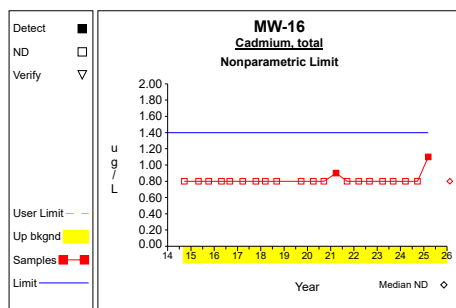
Graph 92



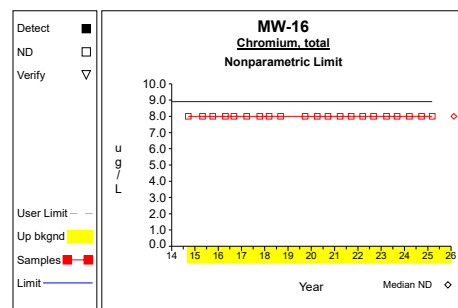
Graph 93



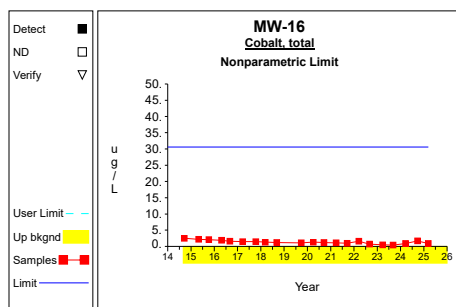
Graph 94



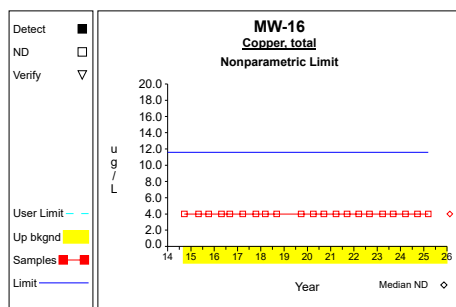
Graph 95



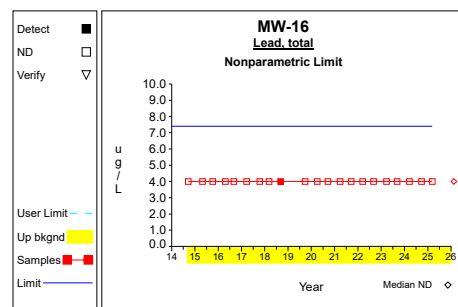
Graph 96



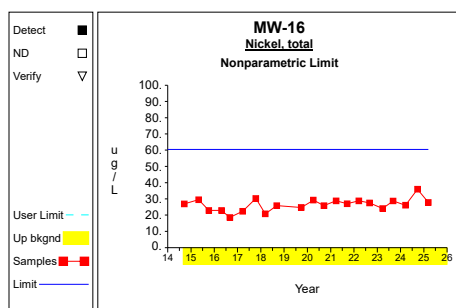
Graph 97



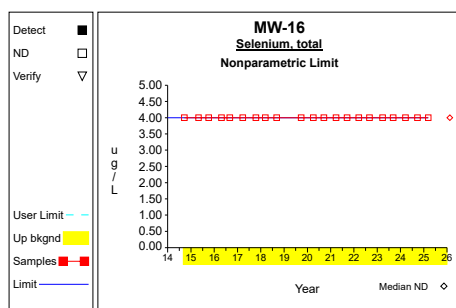
Graph 98



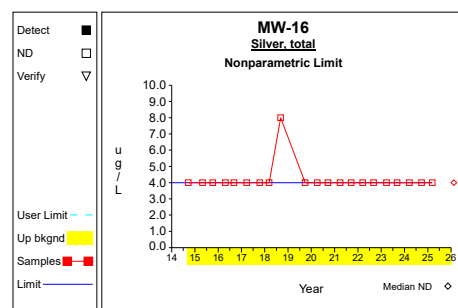
Graph 99



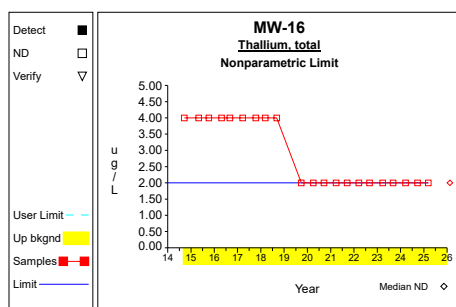
Graph 100



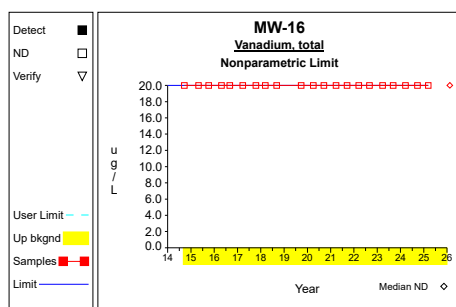
Graph 101



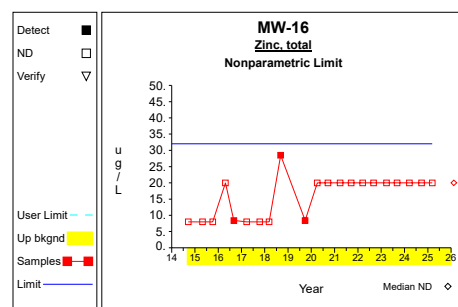
Graph 102



Graph 103

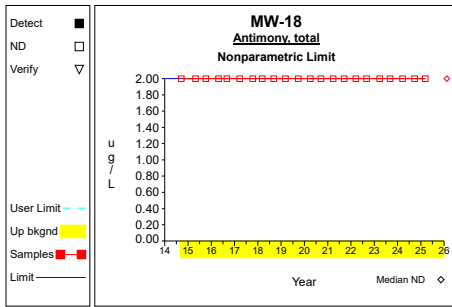


Graph 104

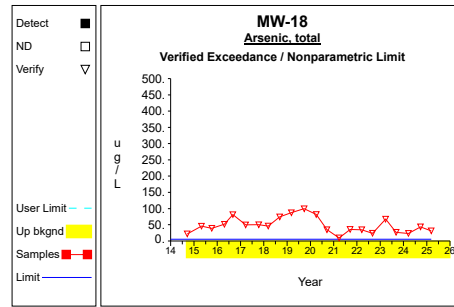


Graph 105

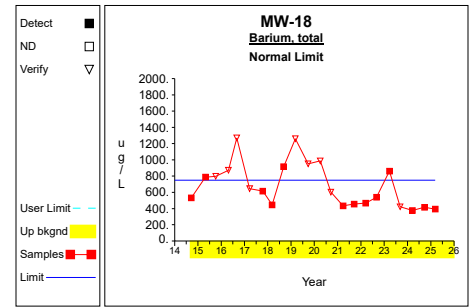
Up vs. Down Prediction Limits



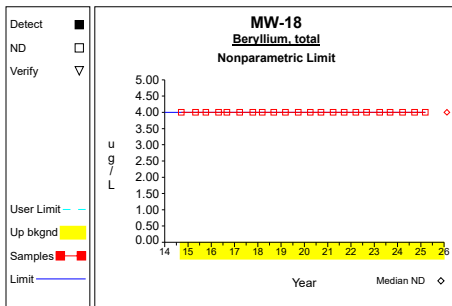
Graph 106



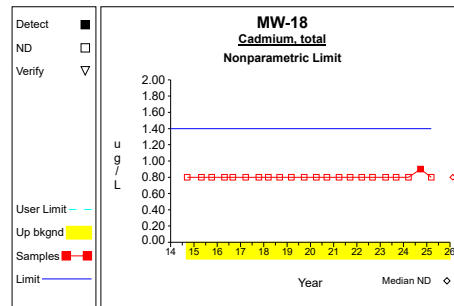
Graph 107



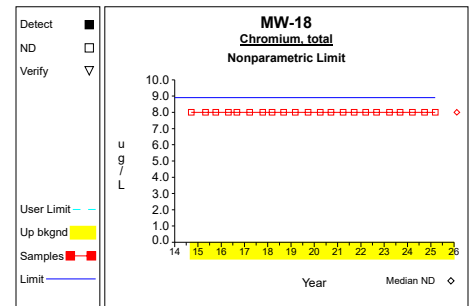
Graph 108



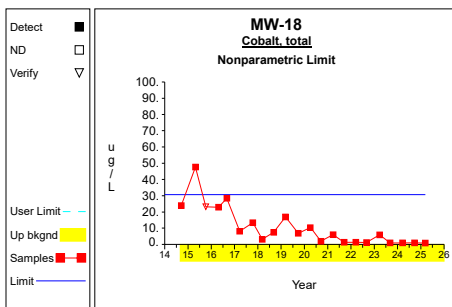
Graph 109



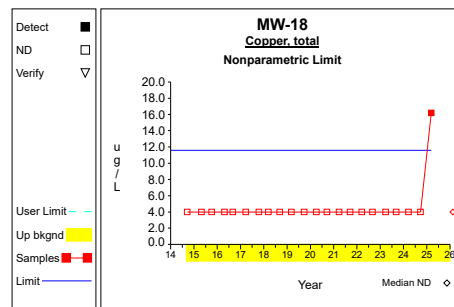
Graph 110



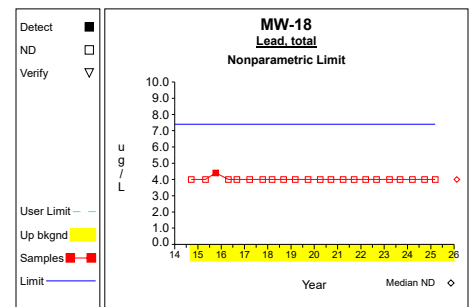
Graph 111



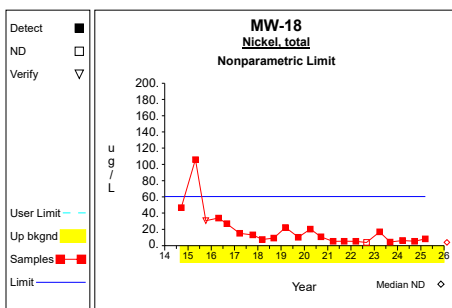
Graph 112



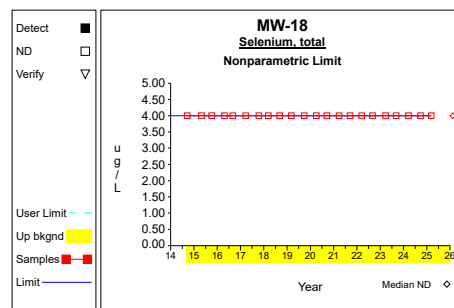
Graph 113



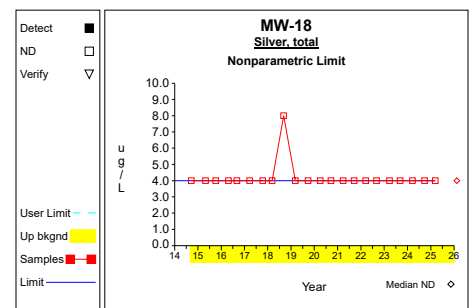
Graph 114



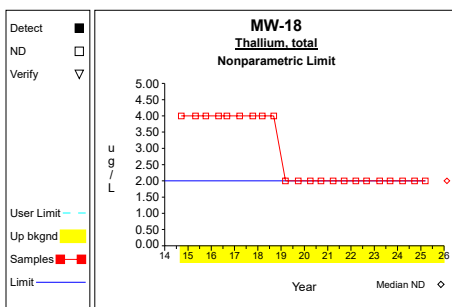
Graph 115



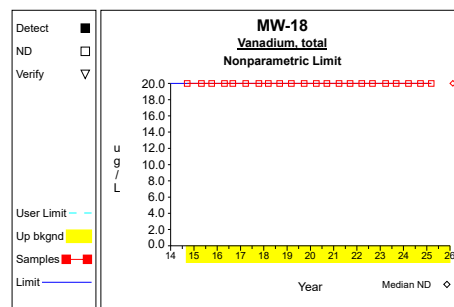
Graph 116



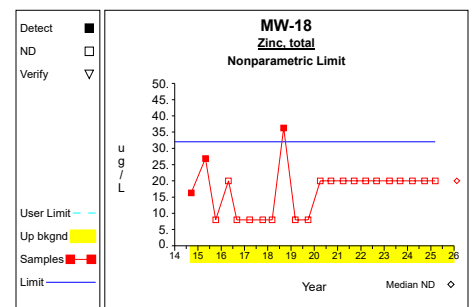
Graph 117



Graph 118

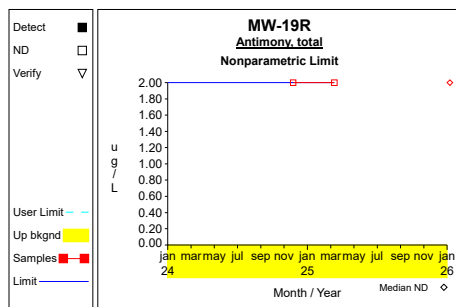


Graph 119

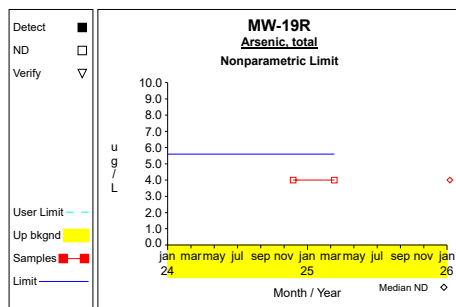


Graph 120

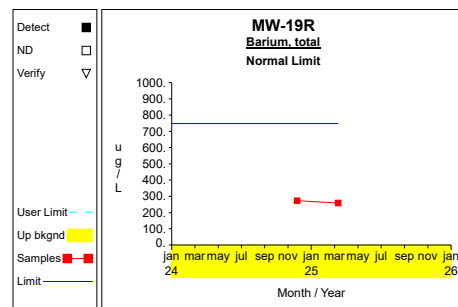
Up vs. Down Prediction Limits



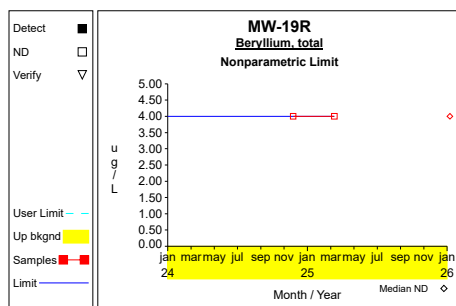
Graph 121



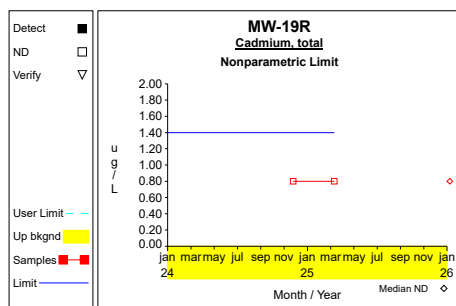
Graph 122



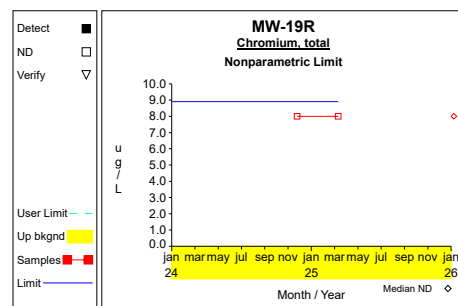
Graph 123



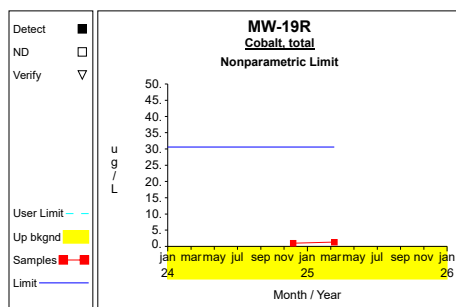
Graph 124



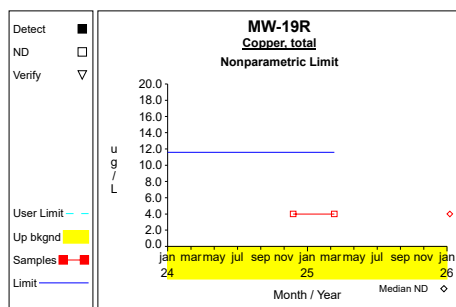
Graph 125



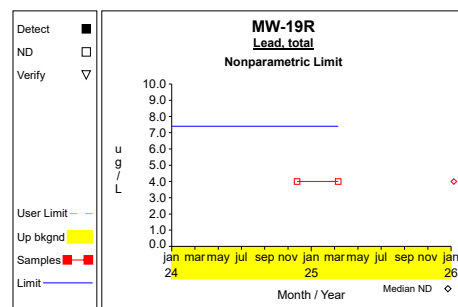
Graph 126



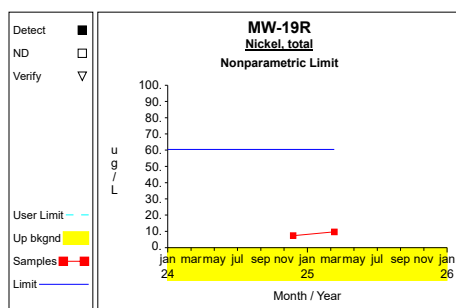
Graph 127



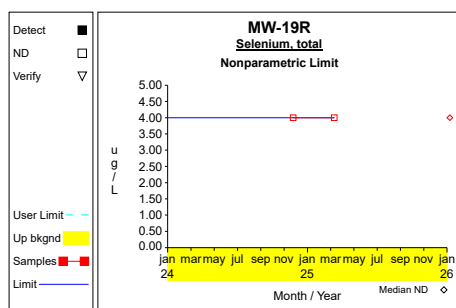
Graph 128



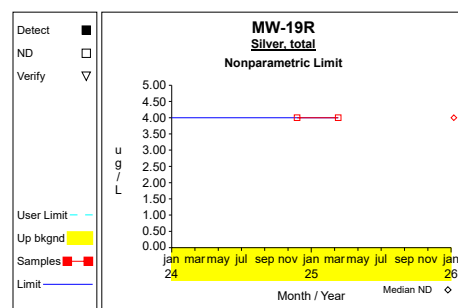
Graph 129



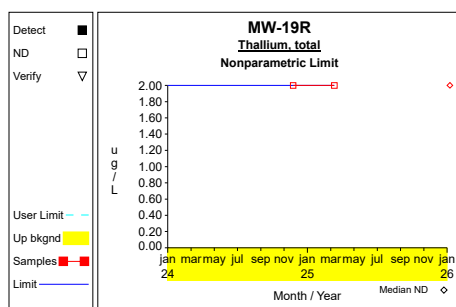
Graph 130



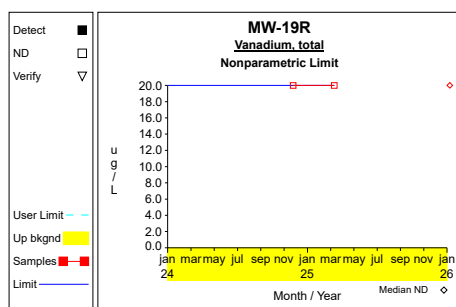
Graph 131



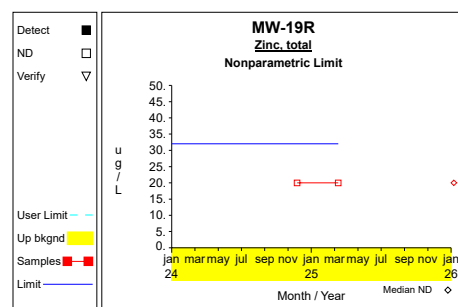
Graph 132



Graph 133

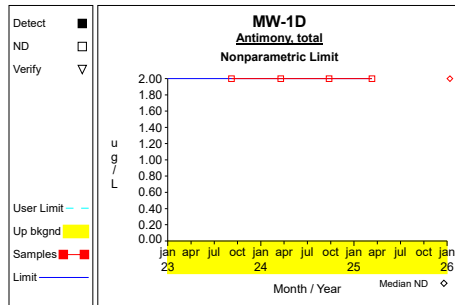


Graph 134

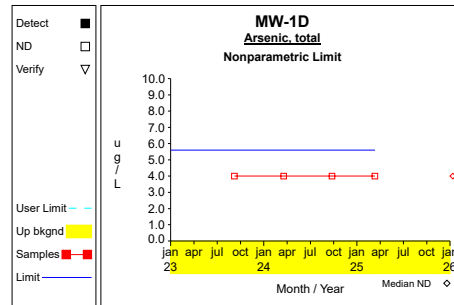


Graph 135

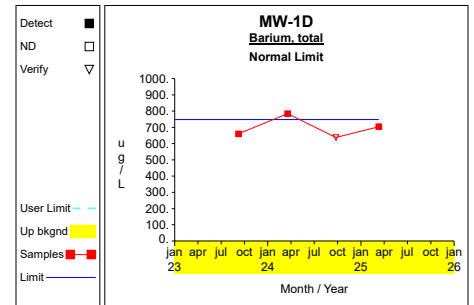
Up vs. Down Prediction Limits



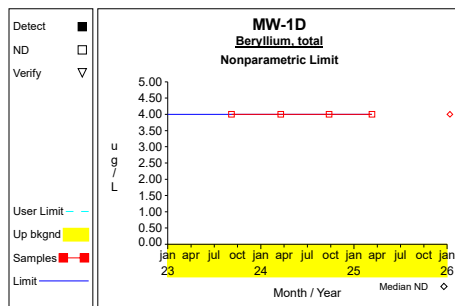
Graph 136



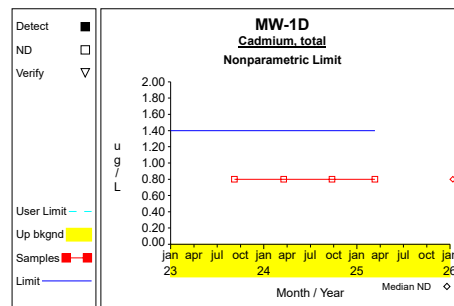
Graph 137



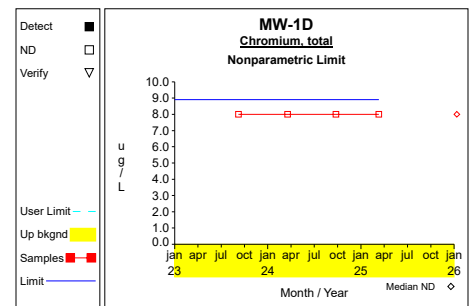
Graph 138



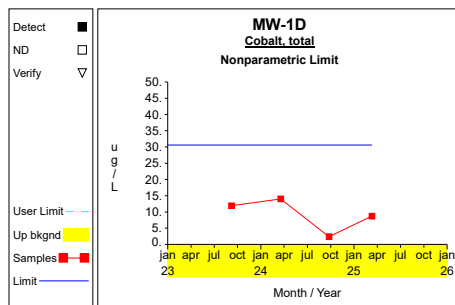
Graph 139



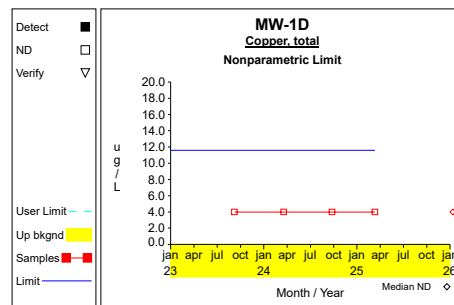
Graph 140



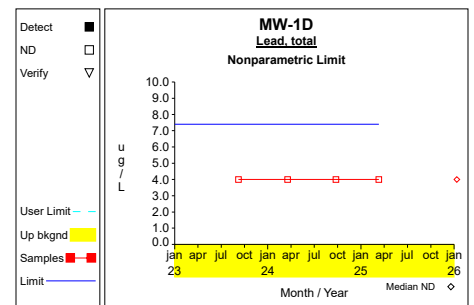
Graph 141



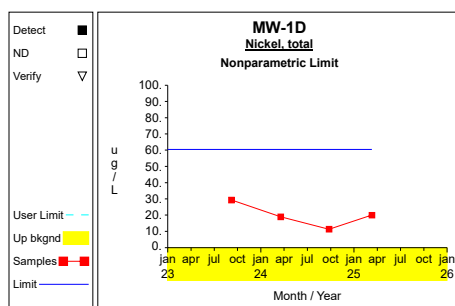
Graph 142



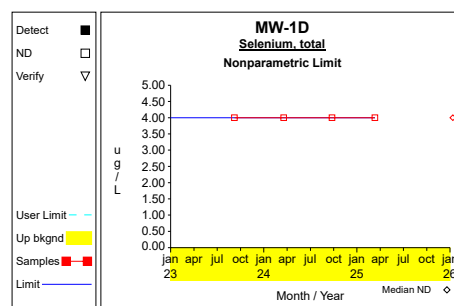
Graph 143



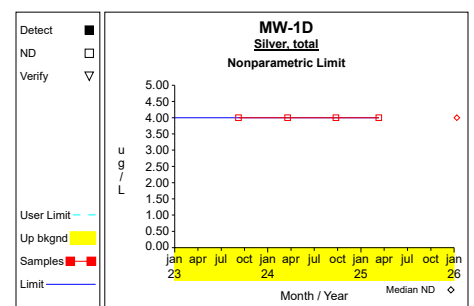
Graph 144



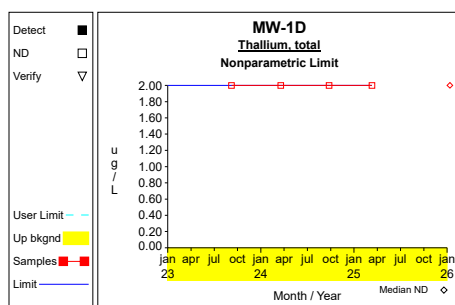
Graph 145



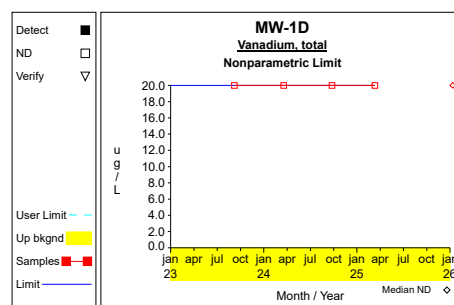
Graph 146



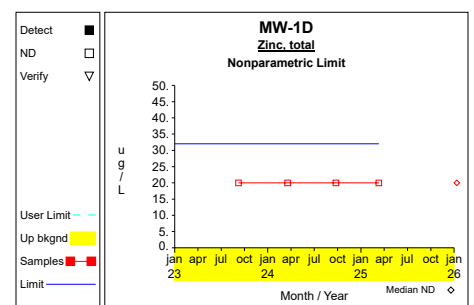
Graph 147



Graph 148

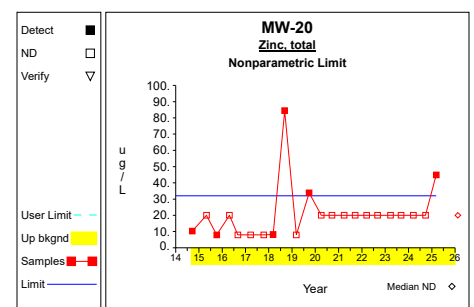
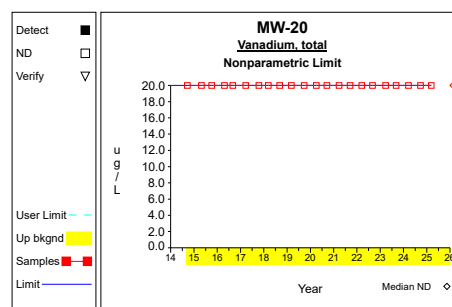
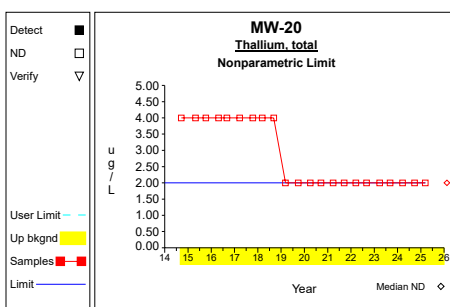
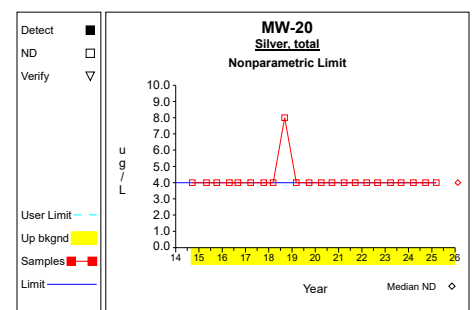
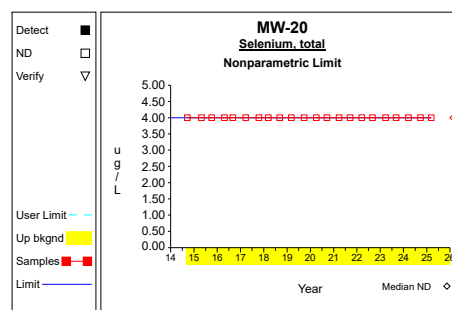
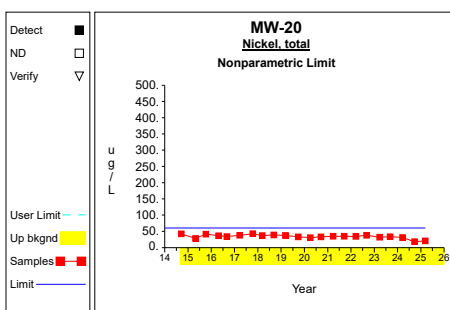
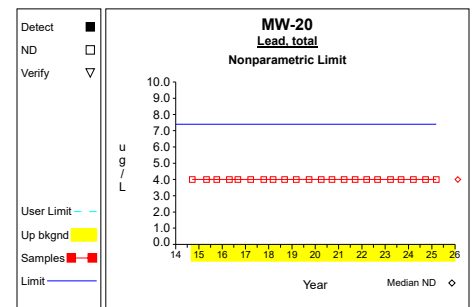
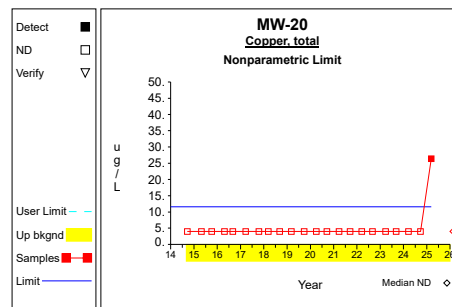
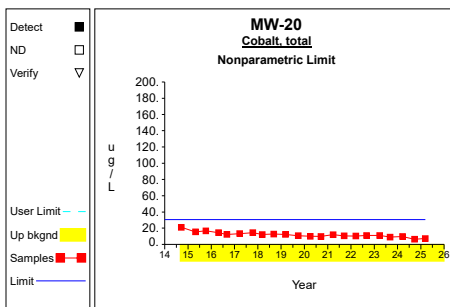
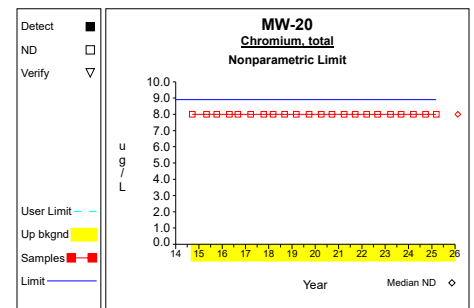
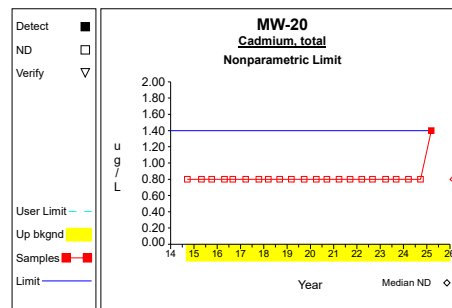
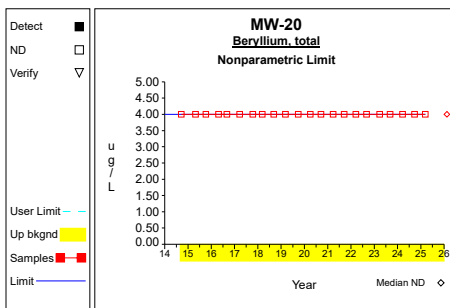
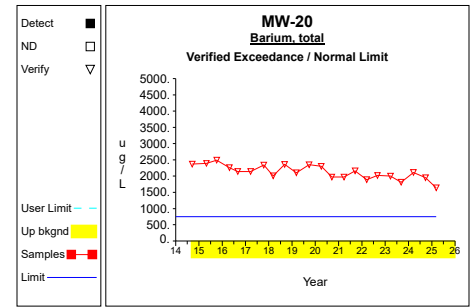
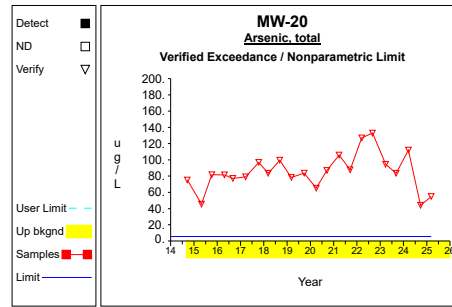
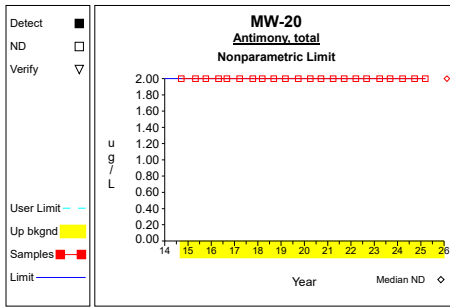


Graph 149

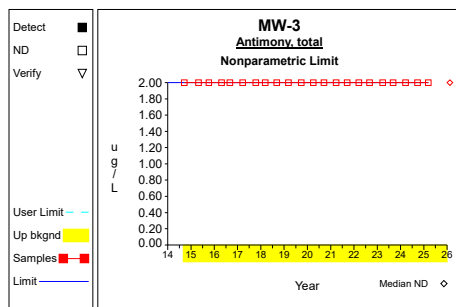


Graph 150

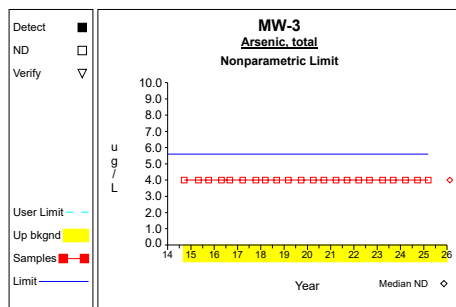
Up vs. Down Prediction Limits



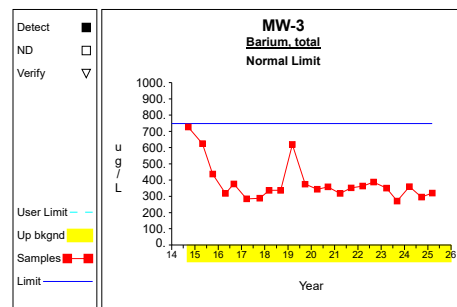
Up vs. Down Prediction Limits



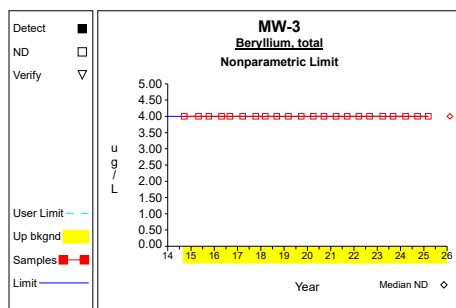
Graph 166



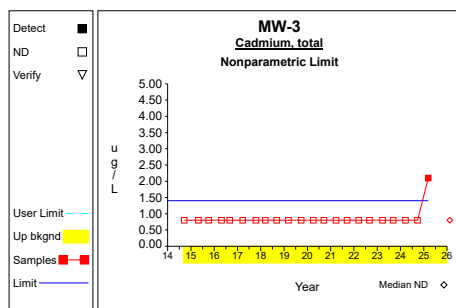
Graph 167



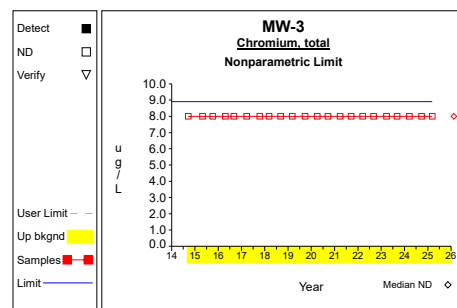
Graph 168



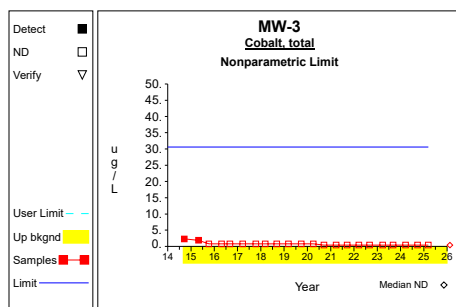
Graph 169



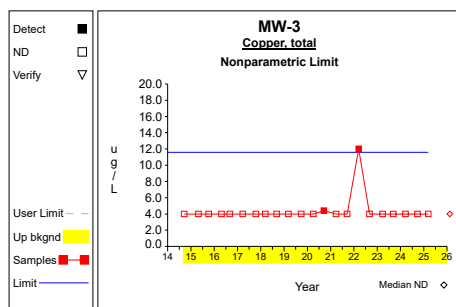
Graph 170



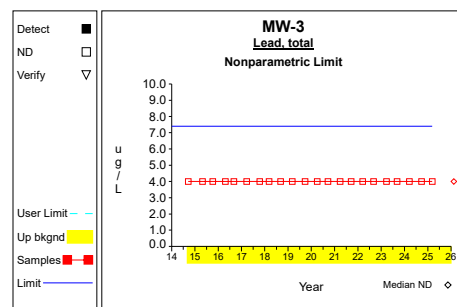
Graph 171



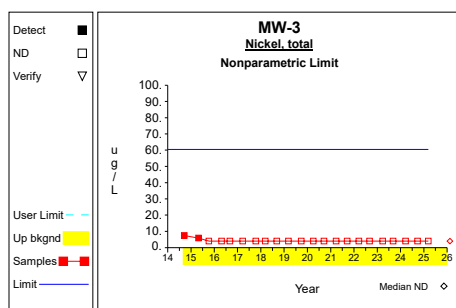
Graph 172



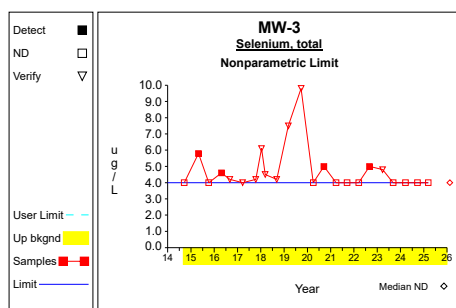
Graph 173



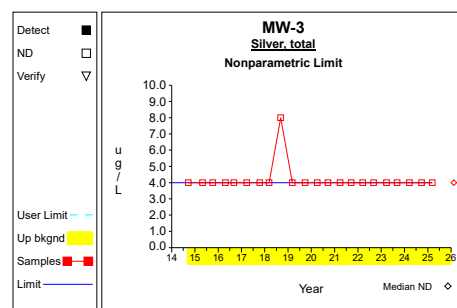
Graph 174



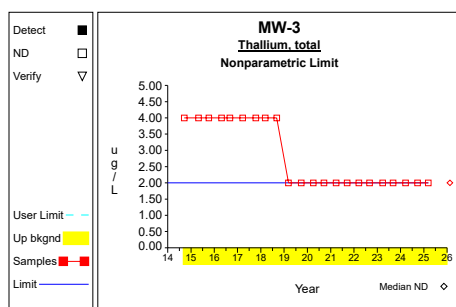
Graph 175



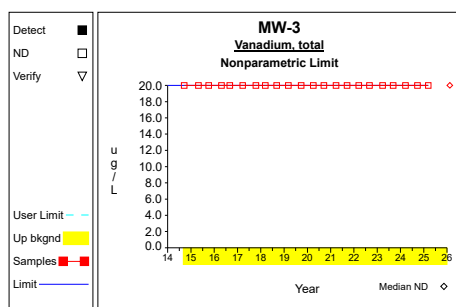
Graph 176



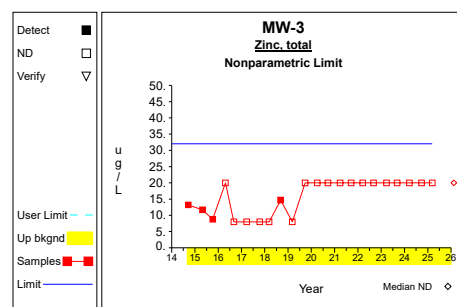
Graph 177



Graph 178

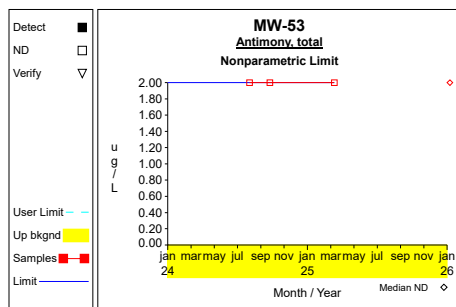


Graph 179

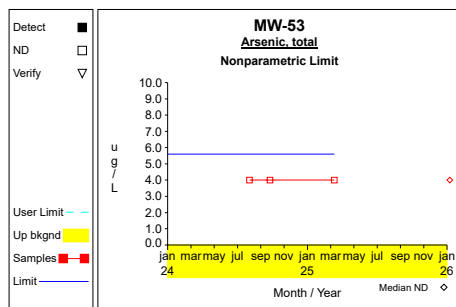


Graph 180

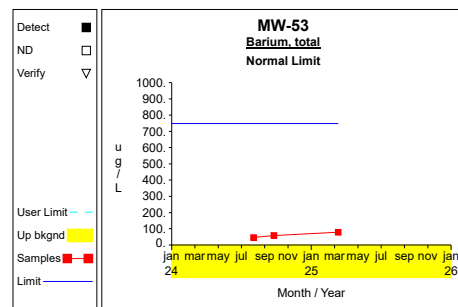
Up vs. Down Prediction Limits



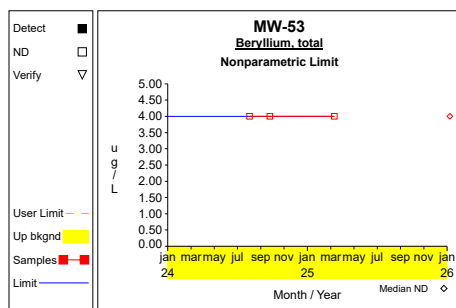
Graph 181



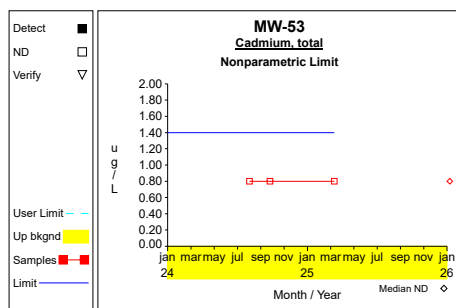
Graph 182



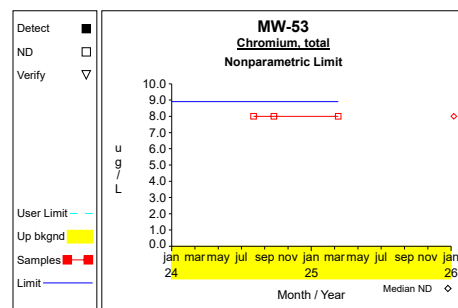
Graph 183



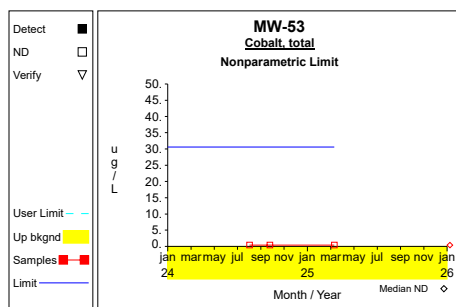
Graph 184



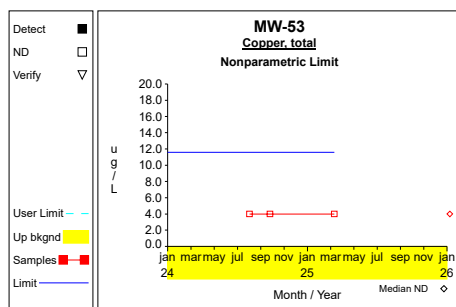
Graph 185



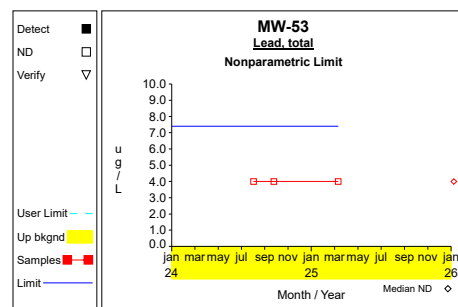
Graph 186



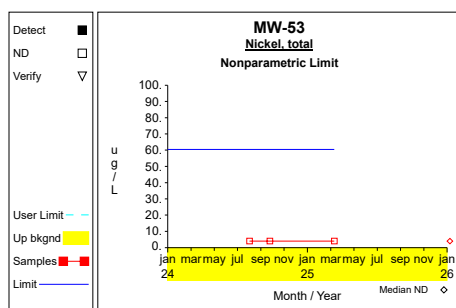
Graph 187



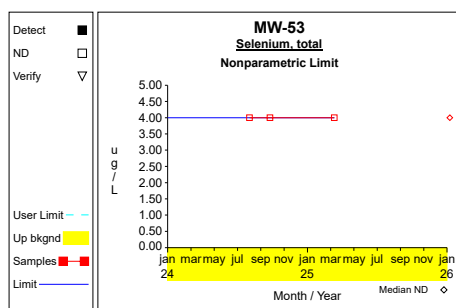
Graph 188



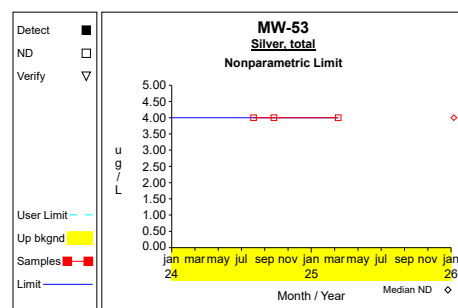
Graph 189



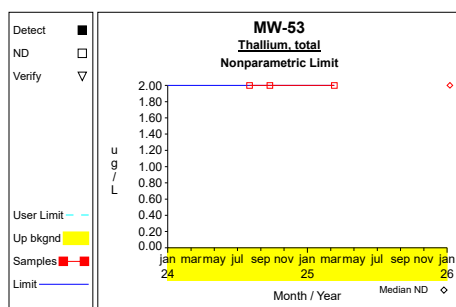
Graph 190



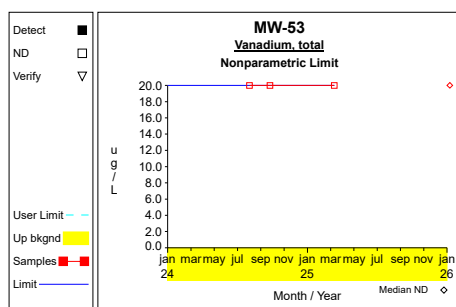
Graph 191



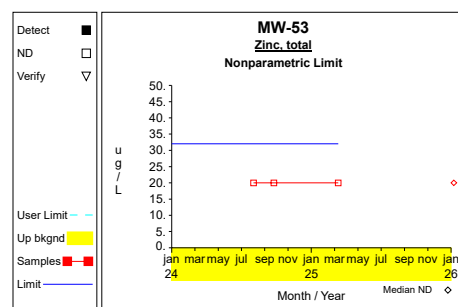
Graph 192



Graph 193

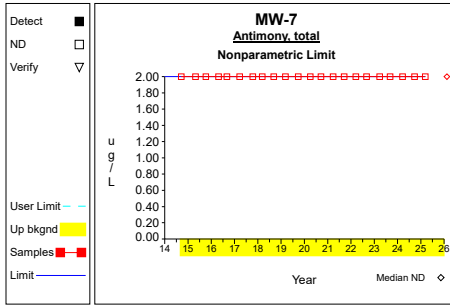


Graph 194

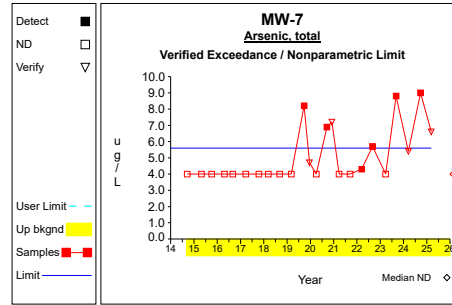


Graph 195

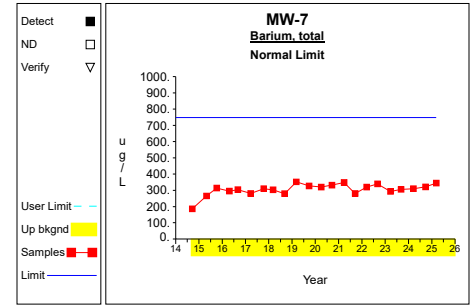
Up vs. Down Prediction Limits



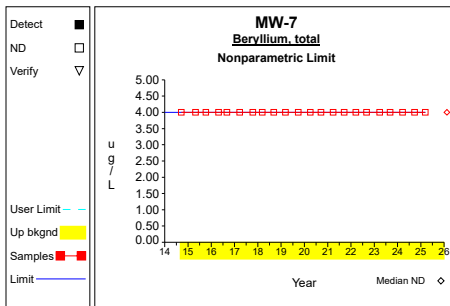
Graph 196



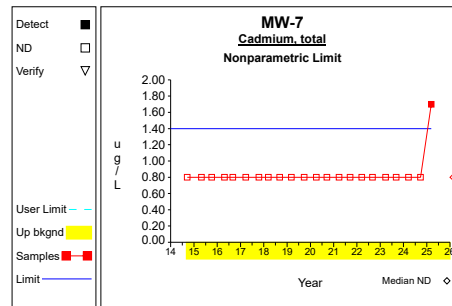
Graph 197



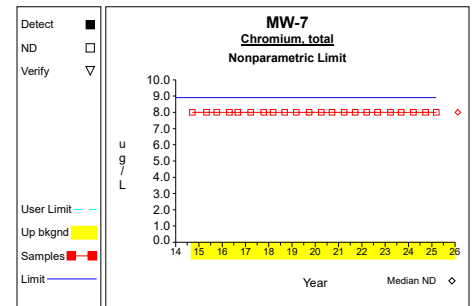
Graph 198



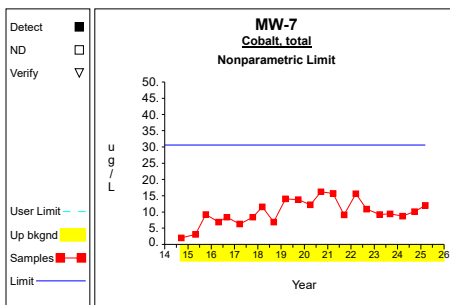
Graph 199



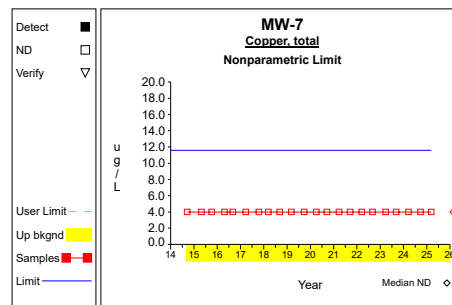
Graph 200



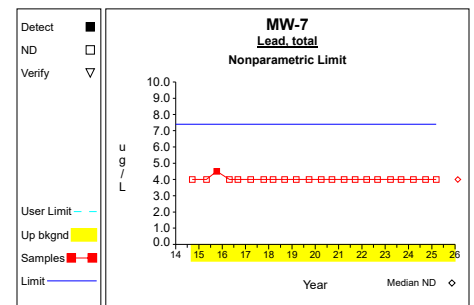
Graph 201



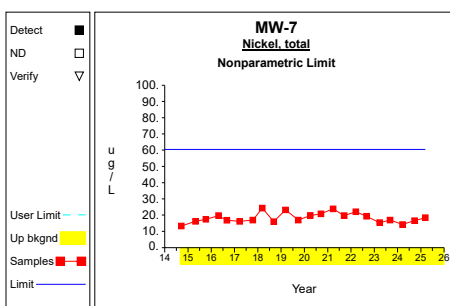
Graph 202



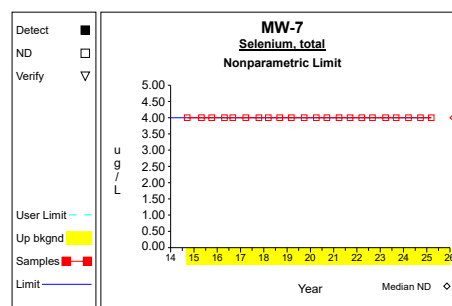
Graph 203



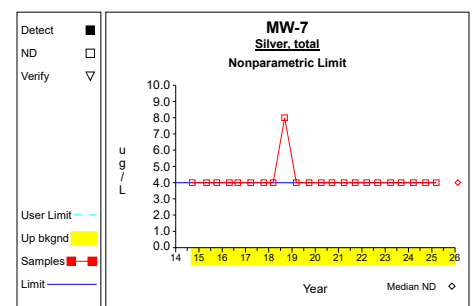
Graph 204



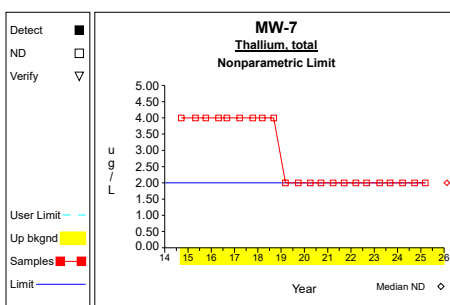
Graph 205



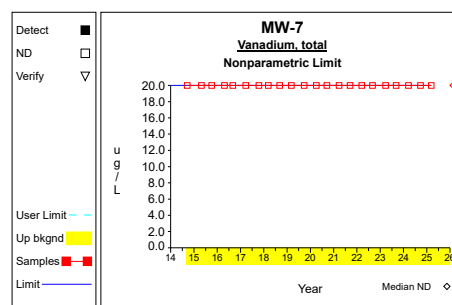
Graph 206



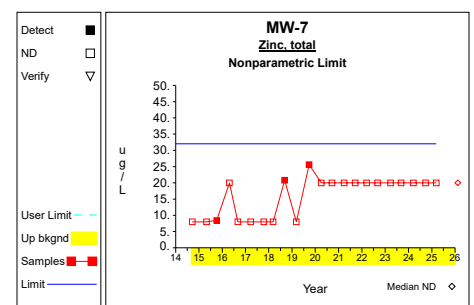
Graph 207



Graph 208

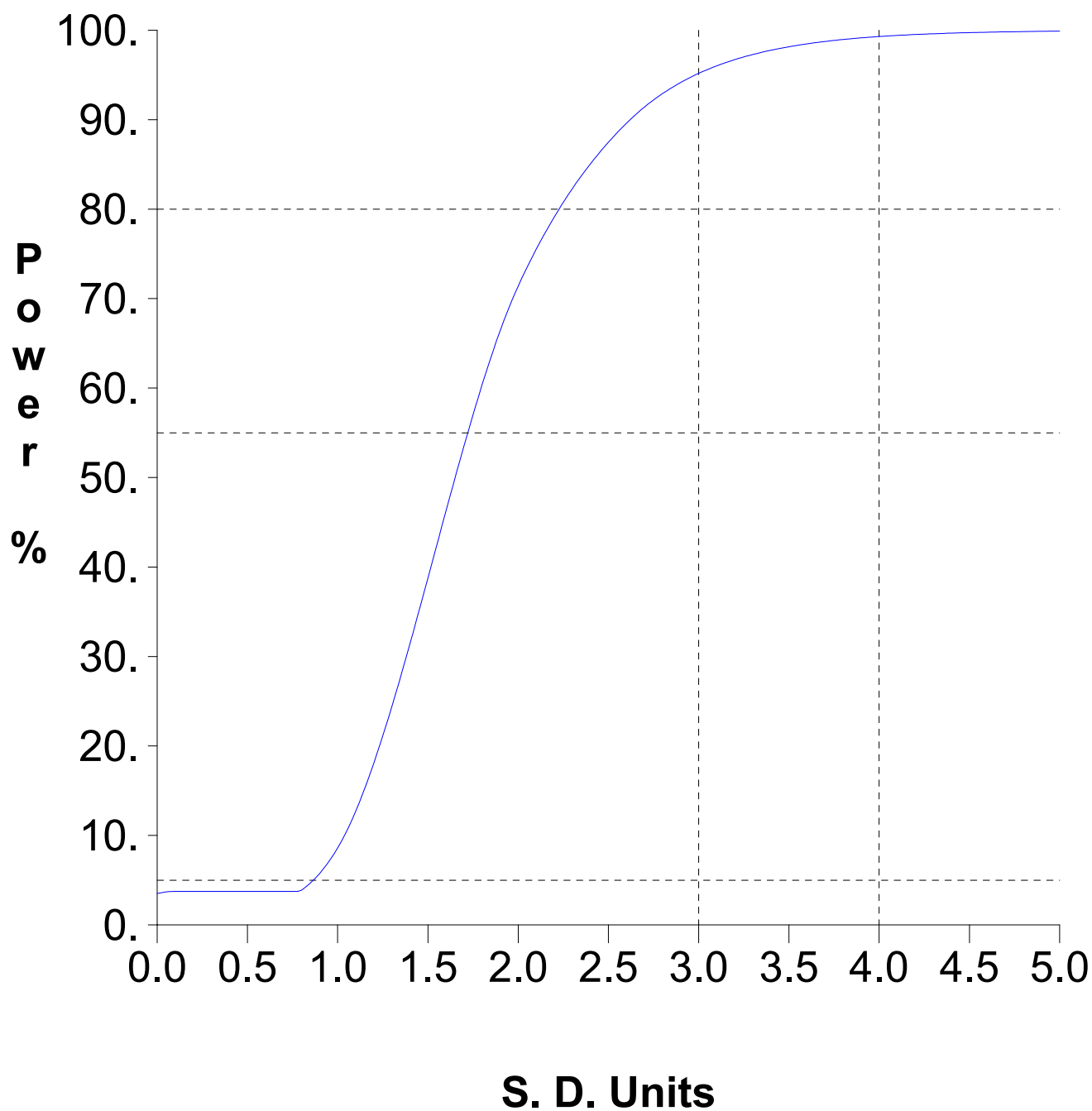


Graph 209



Graph 210

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program



Attachment C

Assessment Statistics for Trace Metals

Table 1

**Confidence Intervals for Comparing the Mean of the Last
4 Measurements to an Assessment Monitoring Standard**

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Arsenic, total	ug/L	GWD-3	3								*
Barium, total	ug/L	GWD-3	3								*
Cadmium, total	ug/L	GWD-3	3								*
Cobalt, total	ug/L	GWD-3	3								*
Copper, total	ug/L	GWD-3	3								*
Zinc, total	ug/L	GWD-3	3								*
Arsenic, total	ug/L	GWD-4	3								*
Barium, total	ug/L	GWD-4	3								*
Cadmium, total	ug/L	GWD-4	3								*
Cobalt, total	ug/L	GWD-4	3								*
Copper, total	ug/L	GWD-4	3								*
Zinc, total	ug/L	GWD-4	4	89.775	32.207	1.176	51.890	127.660	2000.000		
Arsenic, total	ug/L	MW-10	4	5.000	4.151	1.176	0.118	9.882	10.000	inc	
Barium, total	ug/L	MW-10	4	521.750	50.999	1.176	461.760	581.740	2000.000		
Cadmium, total	ug/L	MW-10	4	0.575	0.350	1.176	0.163	0.987	5.000		
Cobalt, total	ug/L	MW-10	4	1.750	0.635	1.176	1.003	2.497	2.100		
Copper, total	ug/L	MW-10	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Zinc, total	ug/L	MW-10	4	14.575	9.150	1.176	3.812	25.338	2000.000		
Arsenic, total	ug/L	MW-13	4	2.000	0.000	1.176	2.000	2.000	10.000		
Barium, total	ug/L	MW-13	4	59.800	6.780	1.176	51.825	67.775	2000.000		
Cadmium, total	ug/L	MW-13	4	1.050	1.050	1.176	0.000	2.286	5.000		
Cobalt, total	ug/L	MW-13	4	0.400	0.000	1.176	0.400	0.400	2.100		
Copper, total	ug/L	MW-13	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Zinc, total	ug/L	MW-13	4	5.000	0.000	1.176	5.000	5.000	2000.000		
Arsenic, total	ug/L	MW-14	4	2.000	0.000	1.176	2.000	2.000	10.000	dec	
Barium, total	ug/L	MW-14	4	123.500	14.480	1.176	106.467	140.533	2000.000		
Cadmium, total	ug/L	MW-14	4	1.175	1.550	1.176	0.000	2.998	5.000		
Cobalt, total	ug/L	MW-14	4	0.425	0.050	1.176	0.366	0.484	2.100		
Copper, total	ug/L	MW-14	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Zinc, total	ug/L	MW-14	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Arsenic, total	ug/L	MW-16	4	18.150	11.029	1.176	5.177	31.123	10.000	dec	
Barium, total	ug/L	MW-16	4	619.250	207.005	1.176	375.753	862.747	2000.000	dec	
Cadmium, total	ug/L	MW-16	4	0.575	0.350	1.176	0.163	0.987	5.000		
Cobalt, total	ug/L	MW-16	4	0.975	0.538	1.176	0.342	1.608	2.100	dec	
Copper, total	ug/L	MW-16	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Zinc, total	ug/L	MW-16	4	5.000	0.000	1.176	5.000	5.000	2000.000		
Arsenic, total	ug/L	MW-18	4	31.350	8.726	1.176	21.086	41.614	10.000		**
Barium, total	ug/L	MW-18	4	402.000	20.833	1.176	377.495	426.505	2000.000		
Cadmium, total	ug/L	MW-18	4	0.525	0.250	1.176	0.231	0.819	5.000		
Cobalt, total	ug/L	MW-18	4	0.900	0.082	1.176	0.804	0.996	2.100	dec	
Copper, total	ug/L	MW-18	4	5.550	7.100	1.176	0.000	13.902	1300.000		
Zinc, total	ug/L	MW-18	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Arsenic, total	ug/L	MW-20	4	73.600	30.499	1.176	37.725	109.475	10.000		**
Barium, total	ug/L	MW-20	4	1877.500	200.229	1.176	1641.973	2113.027	2000.000	dec	
Cadmium, total	ug/L	MW-20	4	0.650	0.500	1.176	0.062	1.238	5.000		
Cobalt, total	ug/L	MW-20	4	8.100	1.556	1.176	6.270	9.930	2.100	dec	**
Copper, total	ug/L	MW-20	4	8.100	12.200	1.176	0.000	22.451	1300.000		
Zinc, total	ug/L	MW-20	4	18.725	17.450	1.176	0.000	39.251	2000.000		
Arsenic, total	ug/L	MW-3	4	2.000	0.000	1.176	2.000	2.000	10.000		
Barium, total	ug/L	MW-3	4	311.500	38.022	1.176	266.775	356.225	2000.000	dec	
Cadmium, total	ug/L	MW-3	4	0.825	0.850	1.176	0.000	1.825	5.000		
Cobalt, total	ug/L	MW-3	4	0.400	0.000	1.176	0.400	0.400	2.100		
Copper, total	ug/L	MW-3	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Zinc, total	ug/L	MW-3	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Arsenic, total	ug/L	MW-7	4	7.450	1.746	1.176	5.396	9.504	10.000		
Barium, total	ug/L	MW-7	4	320.250	17.056	1.176	300.187	340.313	2000.000	inc	
Cadmium, total	ug/L	MW-7	4	0.725	0.650	1.176	0.000	1.490	5.000		
Cobalt, total	ug/L	MW-7	4	10.050	1.420	1.176	8.380	11.720	2.100	inc	**
Copper, total	ug/L	MW-7	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Zinc, total	ug/L	MW-7	4	5.000	0.000	1.176	5.000	5.000	2000.000		

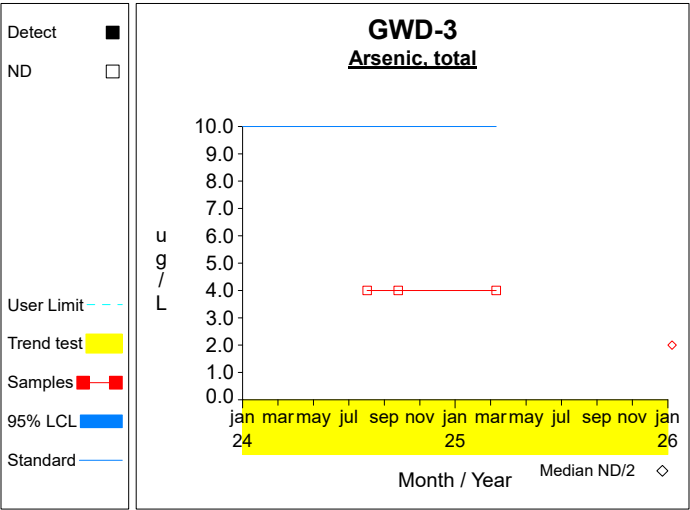
* - Insufficient Data

** - Significant Exceedance

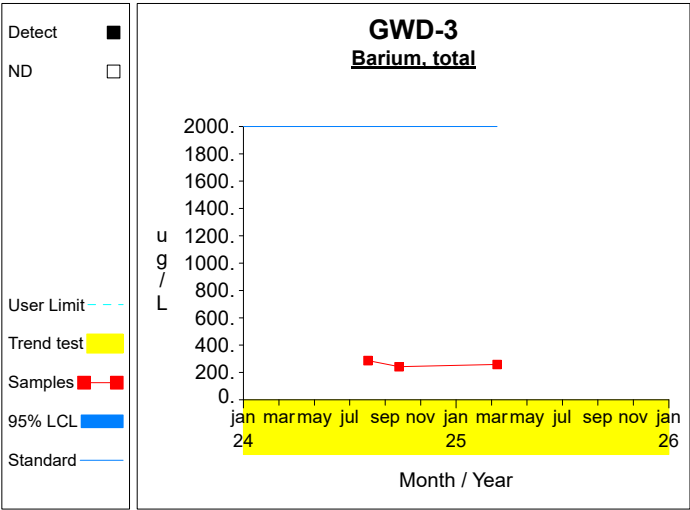
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

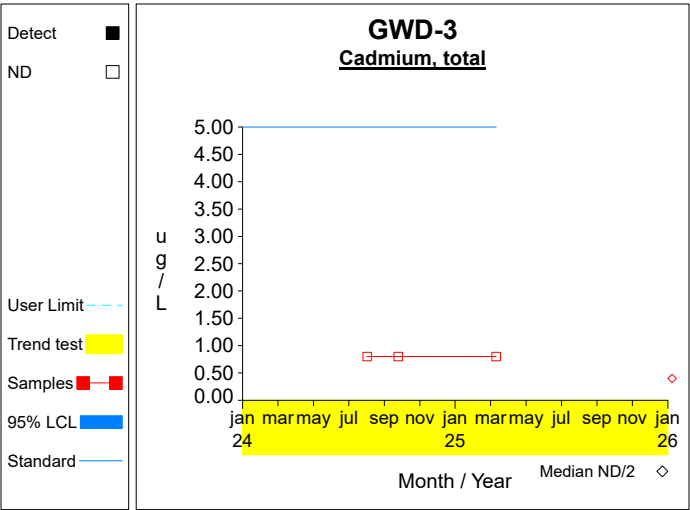
Confidence Limits (Assessment)



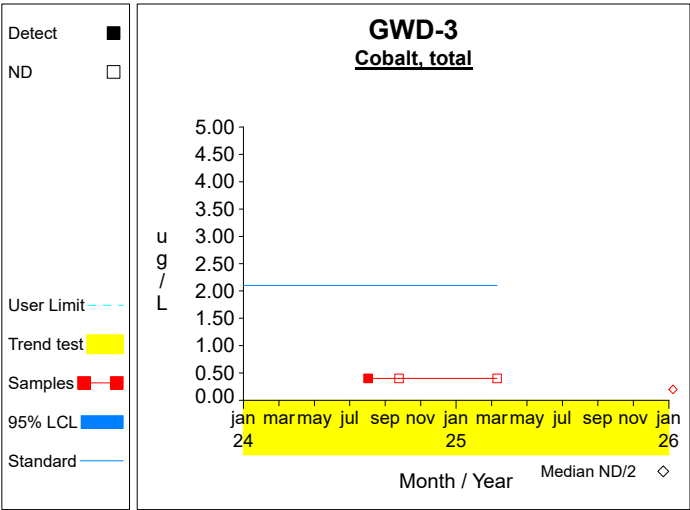
Graph 1



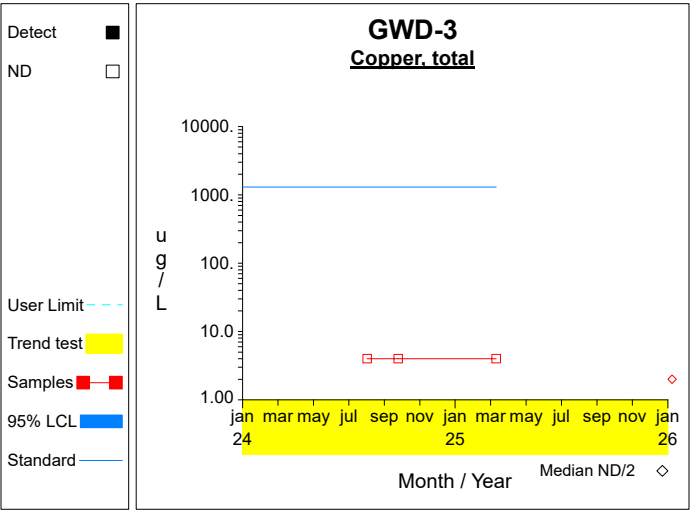
Graph 2



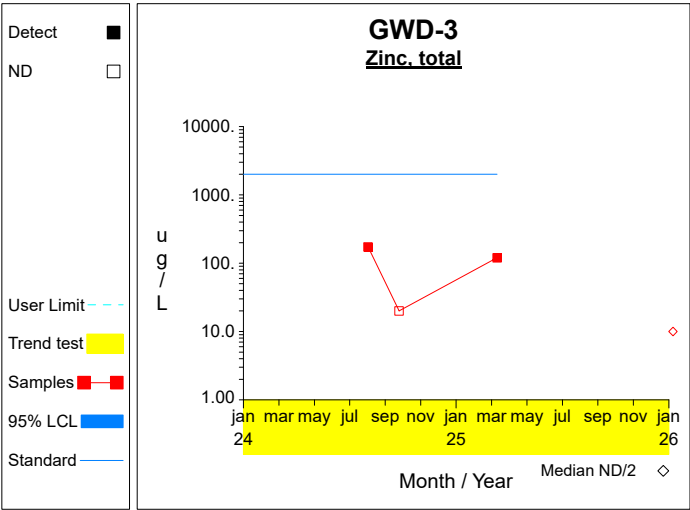
Graph 3



Graph 4

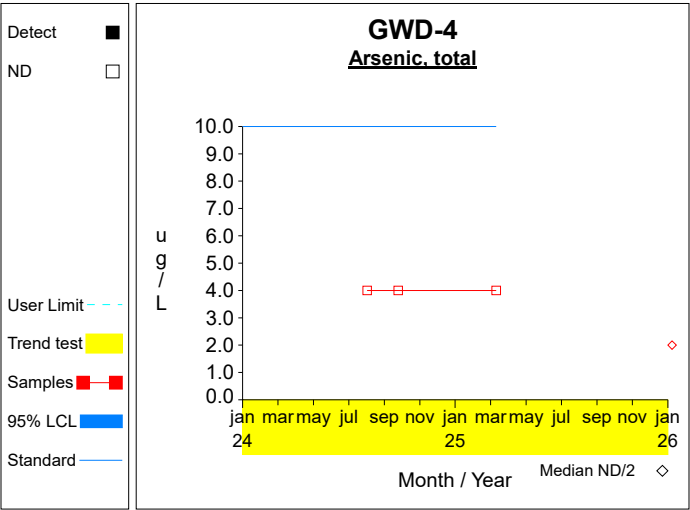


Graph 5

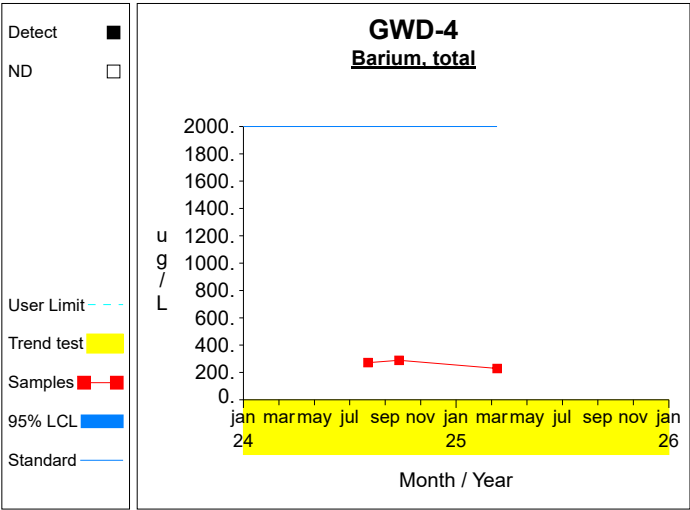


Graph 6

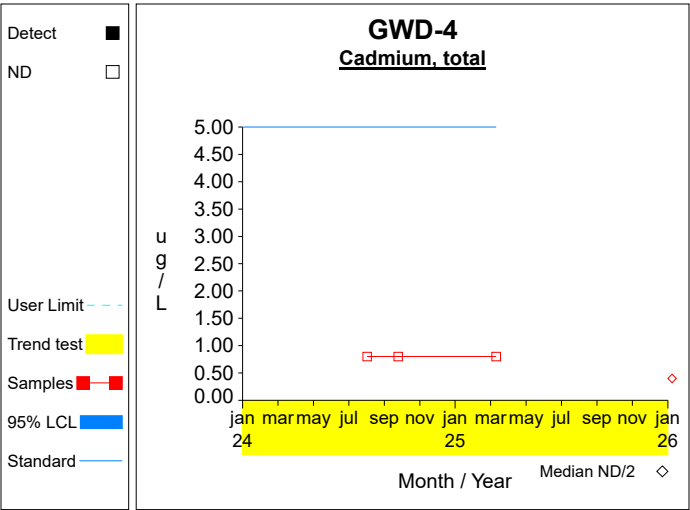
Confidence Limits (Assessment)



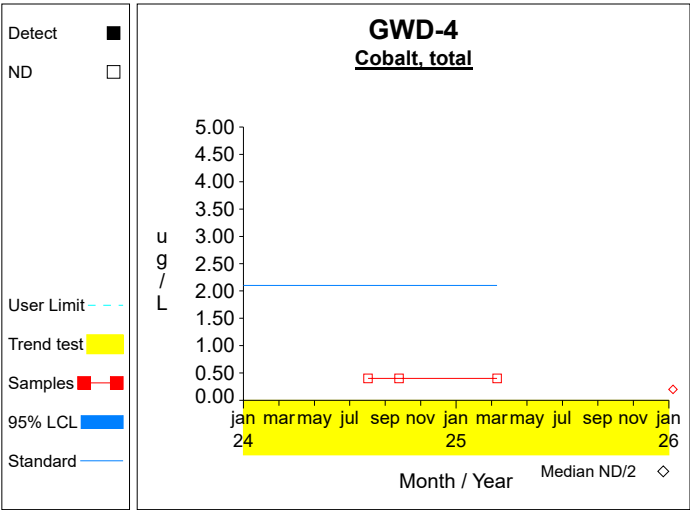
Graph 7



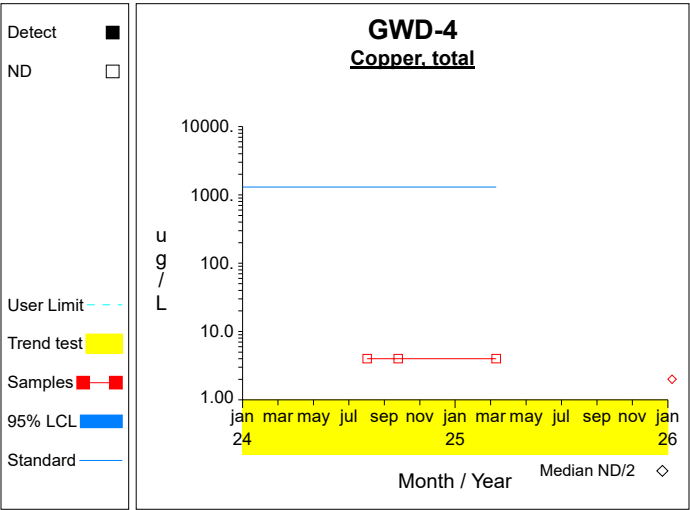
Graph 8



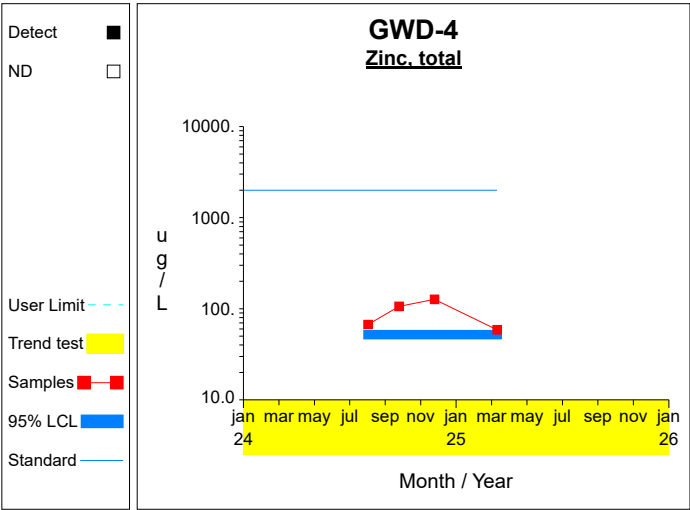
Graph 9



Graph 10

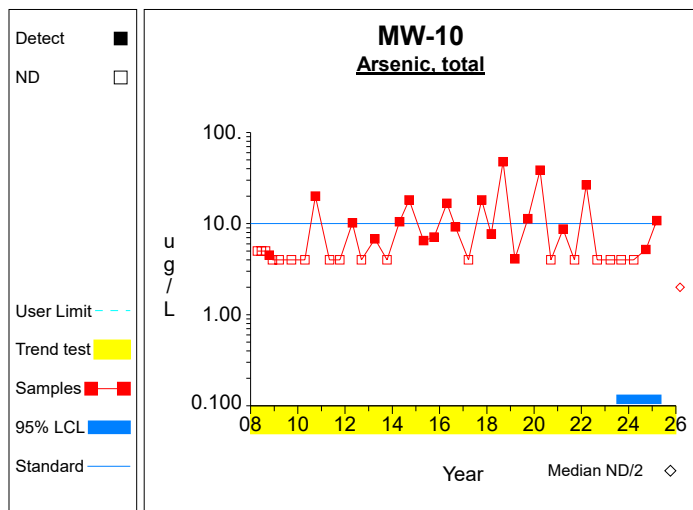


Graph 11

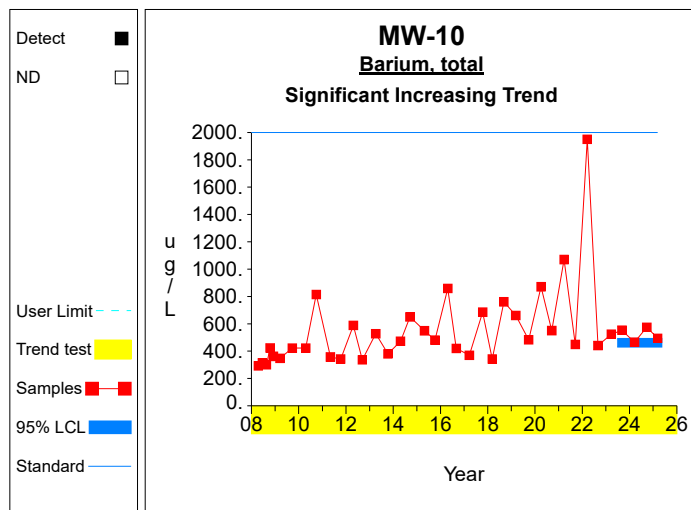


Graph 12

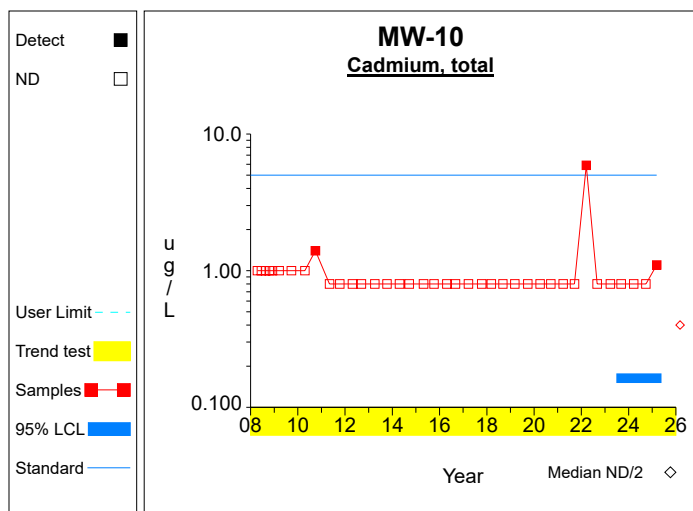
Confidence Limits (Assessment)



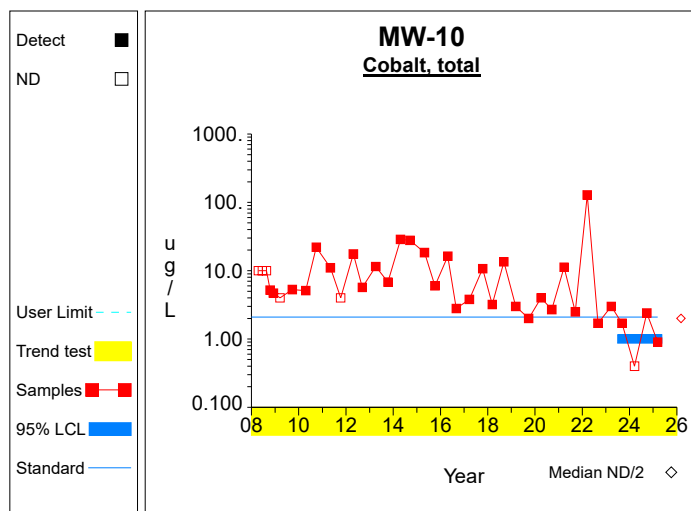
Graph 13



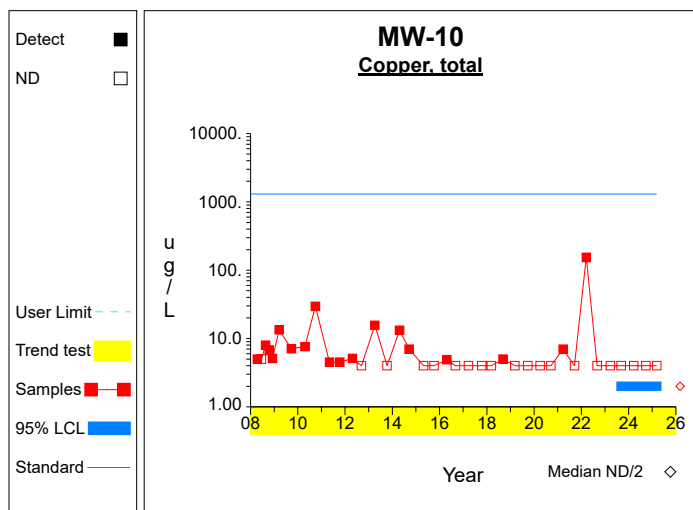
Graph 14



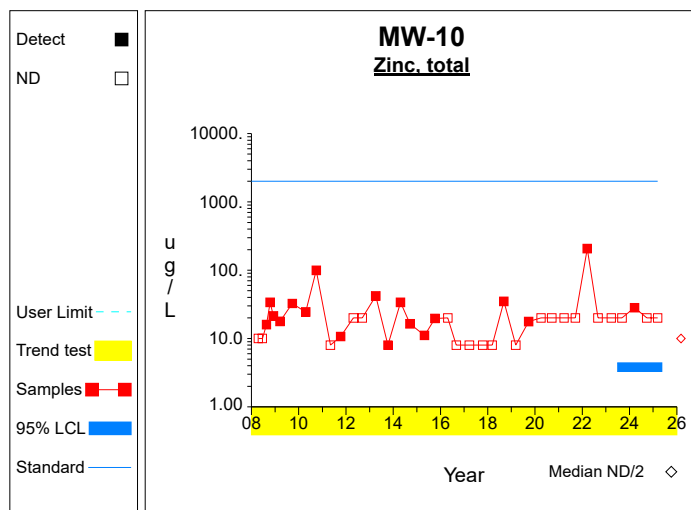
Graph 15



Graph 16

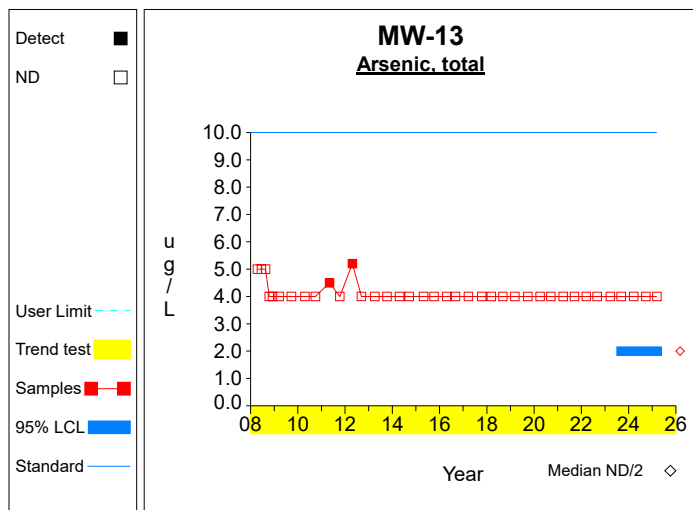


Graph 17

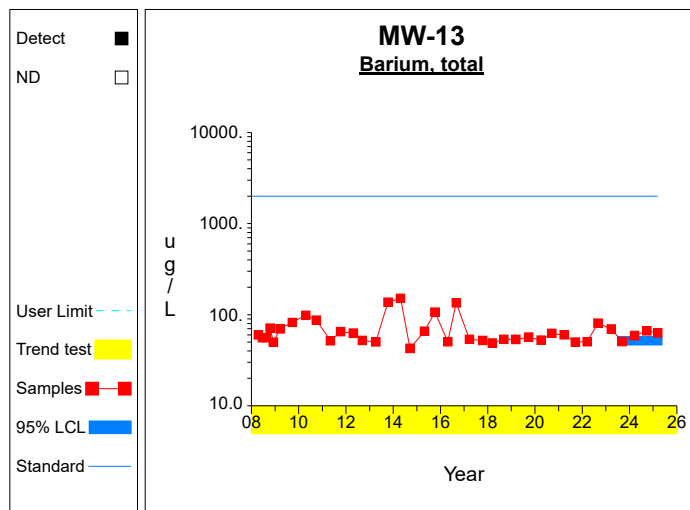


Graph 18

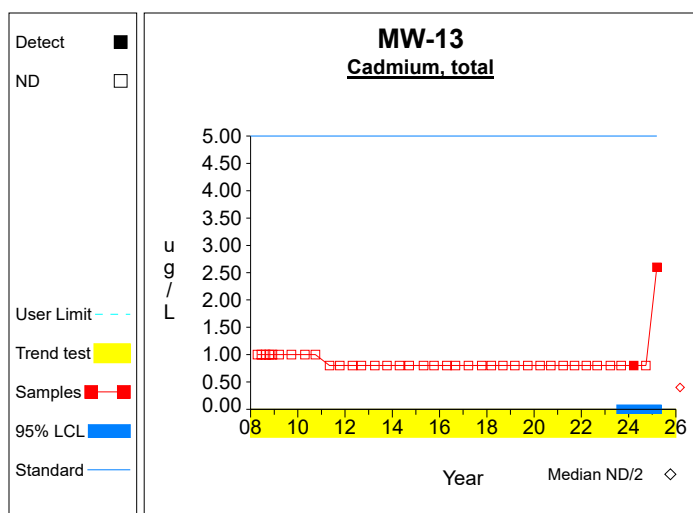
Confidence Limits (Assessment)



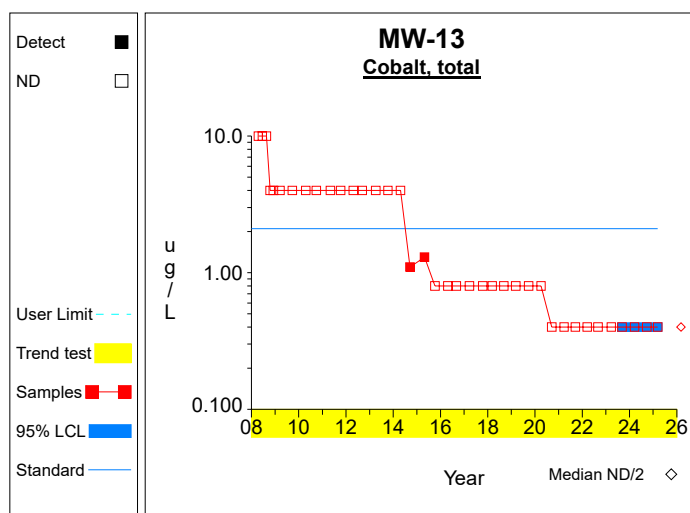
Graph 19



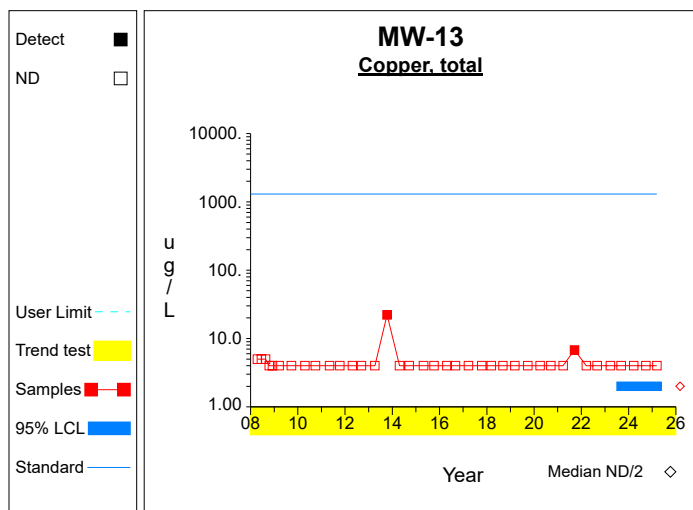
Graph 20



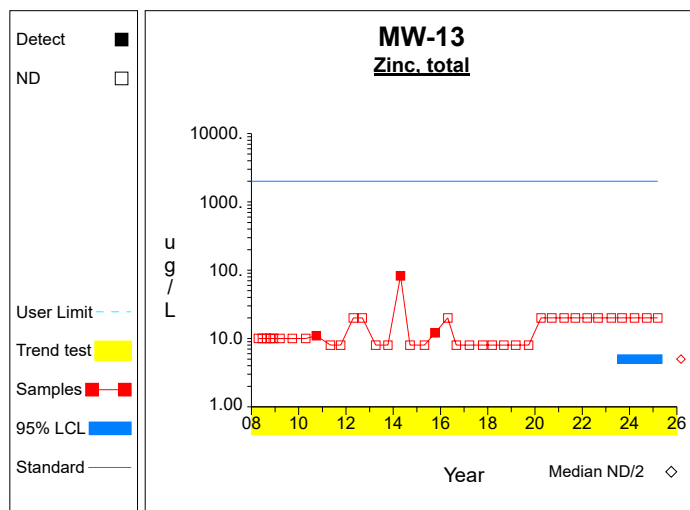
Graph 21



Graph 22

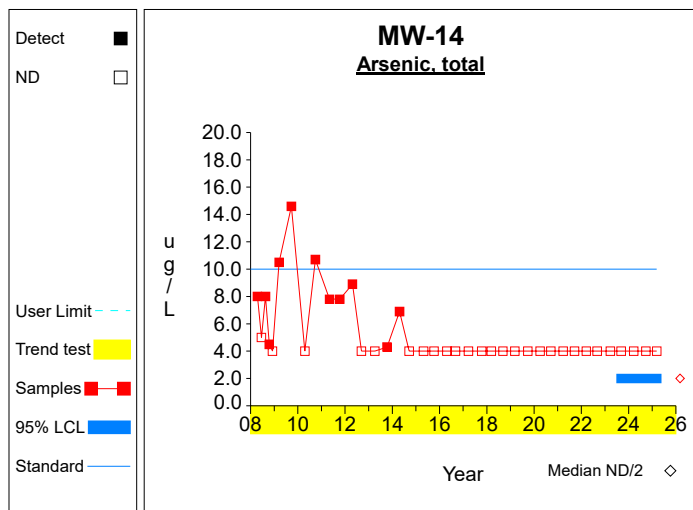


Graph 23

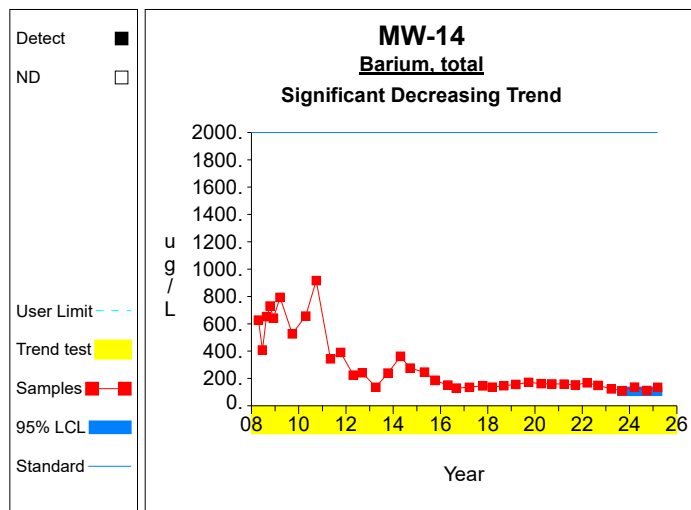


Graph 24

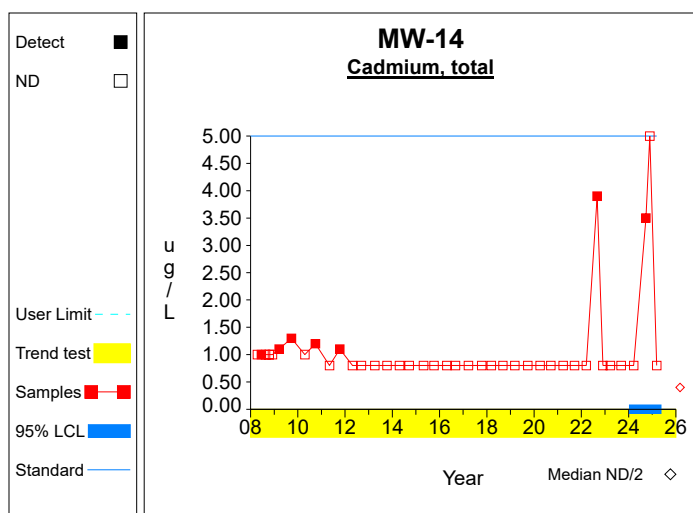
Confidence Limits (Assessment)



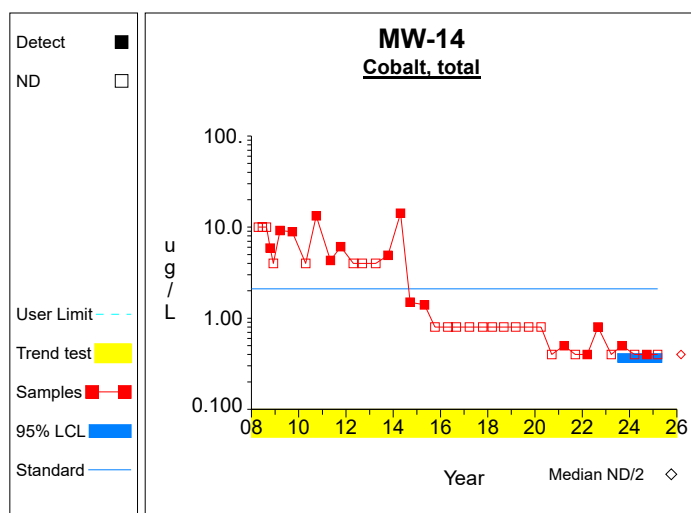
Graph 25



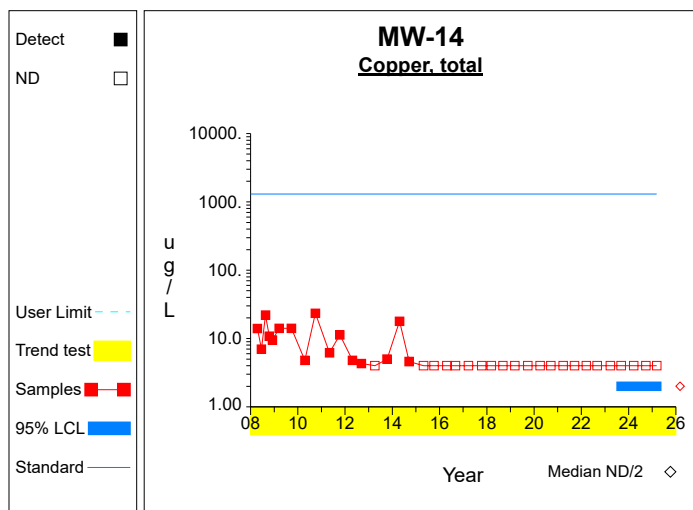
Graph 26



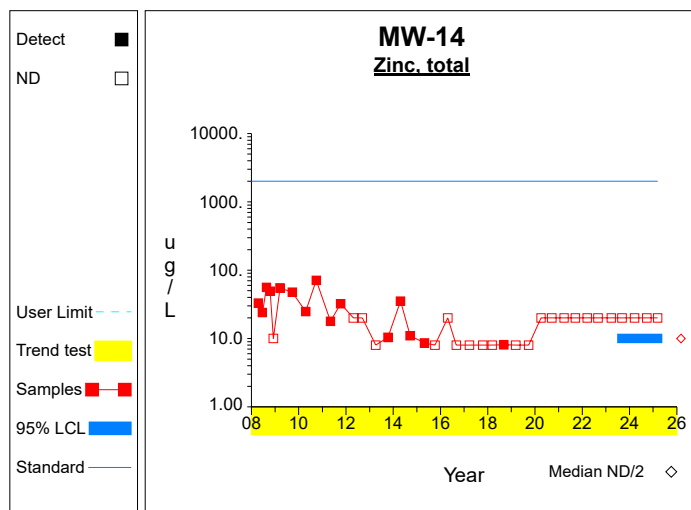
Graph 27



Graph 28

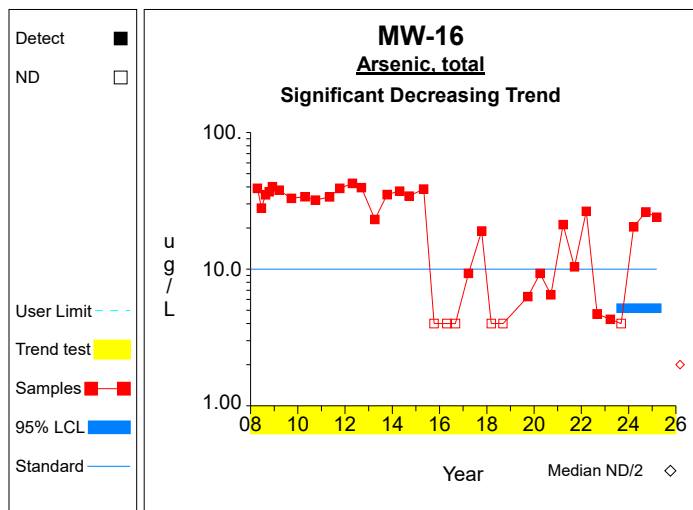


Graph 29

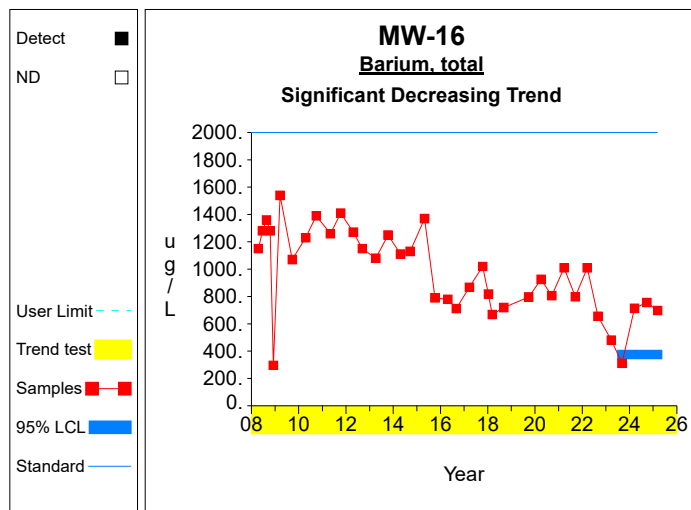


Graph 30

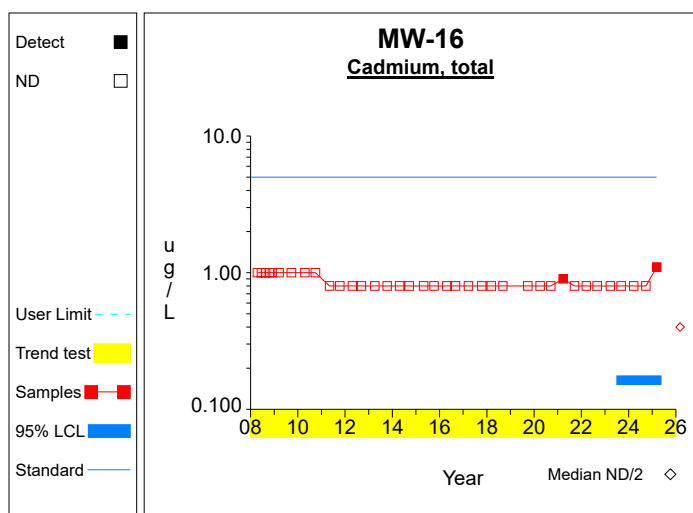
Confidence Limits (Assessment)



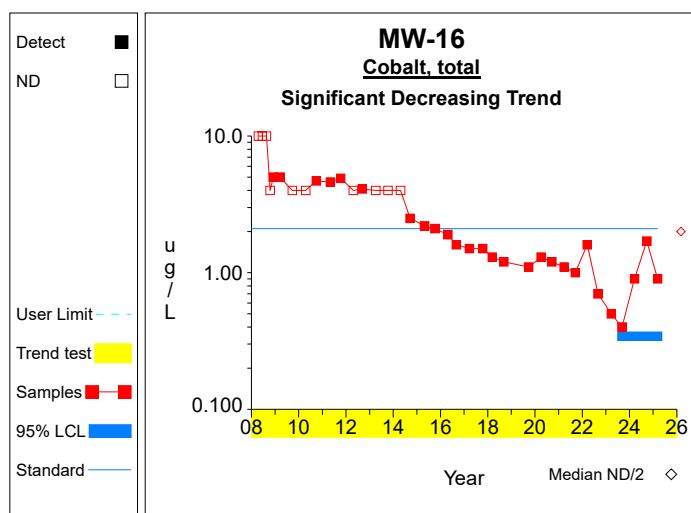
Graph 31



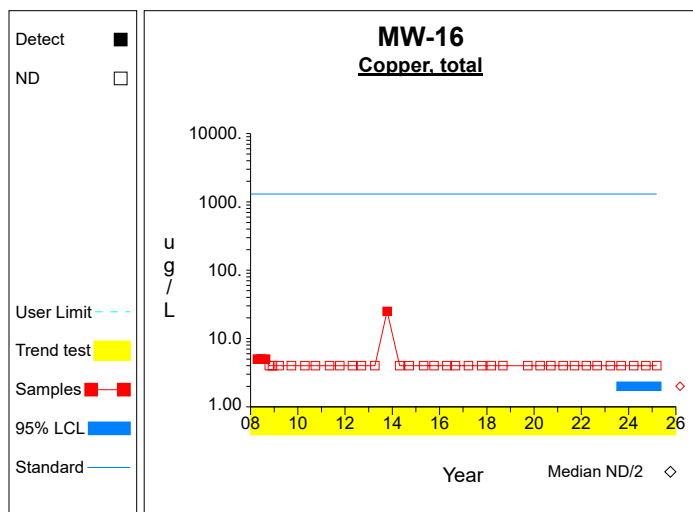
Graph 32



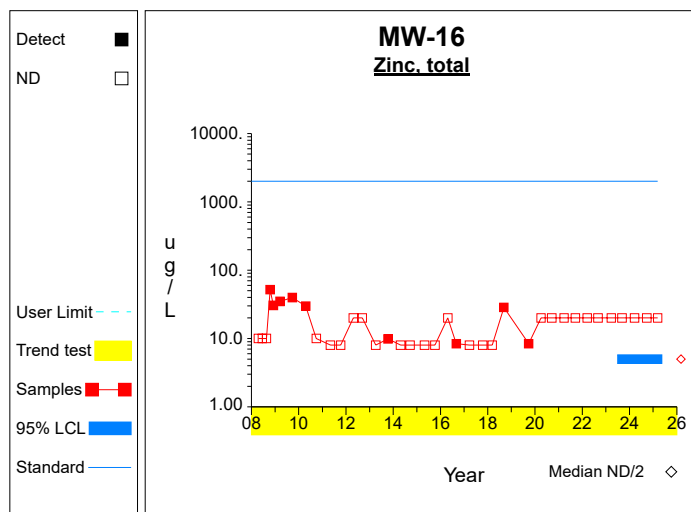
Graph 33



Graph 34

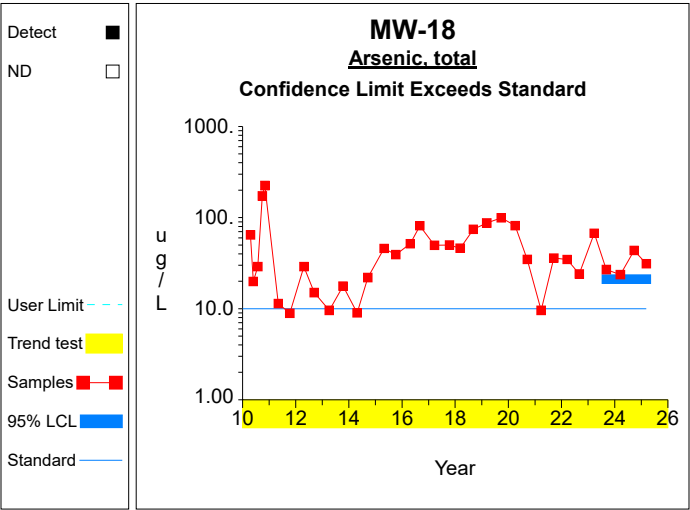


Graph 35

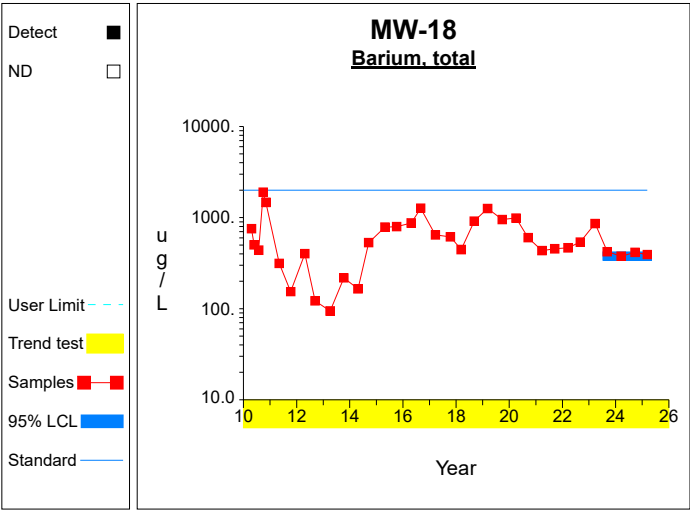


Graph 36

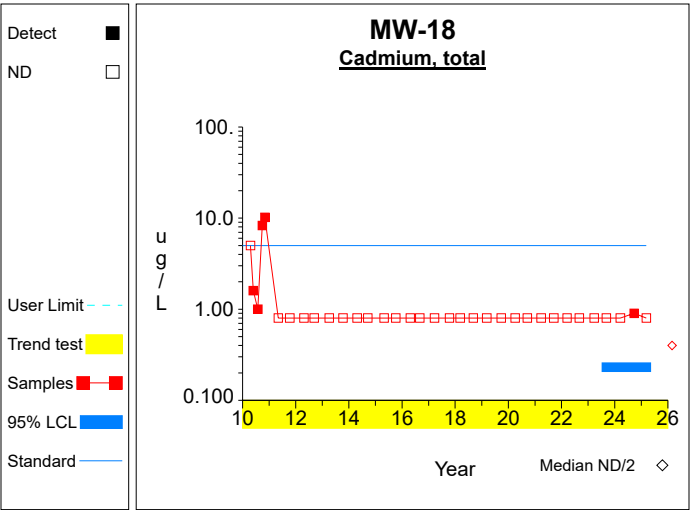
Confidence Limits (Assessment)



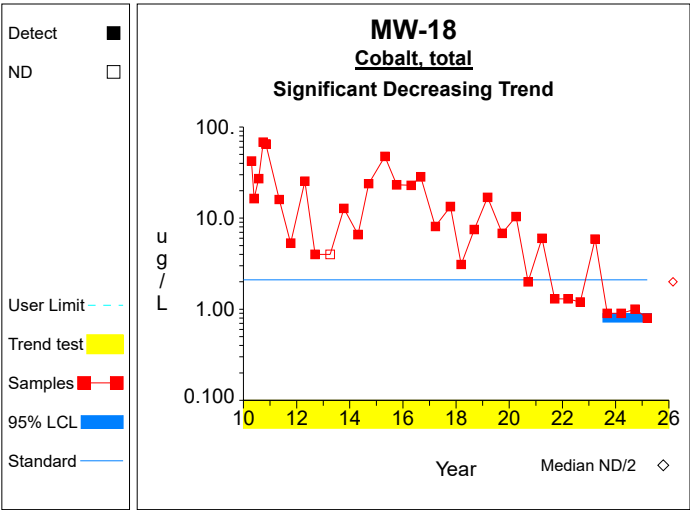
Graph 37



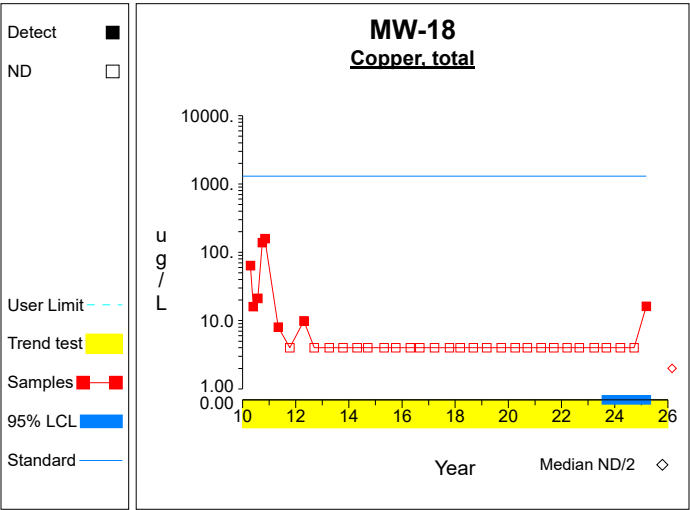
Graph 38



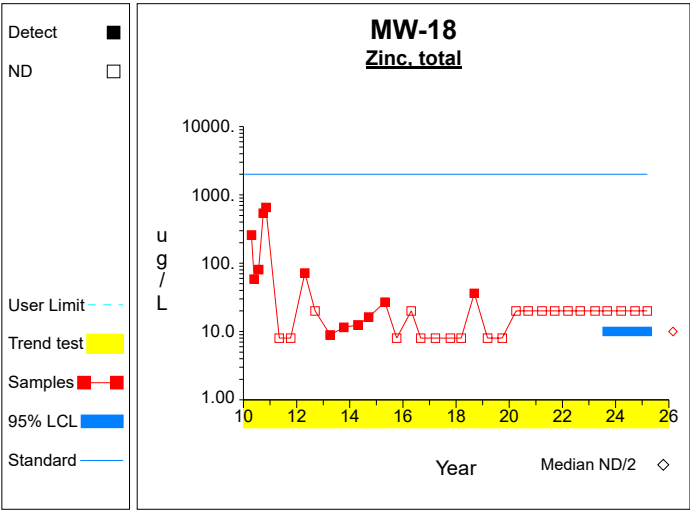
Graph 39



Graph 40



Graph 41



Graph 42

MW-20
Arsenic, total

Confidence Limit Exceeds Standard

Y-axis: ug / L
X-axis: Year

Legend:

- Detect (Black square)
- ND (White square)
- User Limit (Dashed line)
- Trend test (Yellow box)
- Samples (Red square)
- 95% LCL (Blue box)
- Standard (Blue line)

Year	Concentration (ug/L)
10	165
11	145
12	90
13	50
14	60
15	40
16	60
17	80
18	45
19	80
20	100
21	80
22	65
23	105
24	130
25	95
26	40

MW-20
Barium, total

Significant Decreasing Trend

ug / L

Year

Detect ■

ND □

User Limit - - -

Trend test ■

Samples ■—■

95% LCL ■

Standard —

MW-20
Cadmium, total

Y-axis: $\mu\text{g} / \text{L}$

X-axis: Year

Legend:

- Detect: ■
- ND: ◇
- User Limit: —
- Trend test:
- Samples: ■ — ■
- 95% LCL:
- Standard:
- Median ND/2: ◇

Year	Concentration ($\mu\text{g} / \text{L}$)	Notes
1910	~8.0	Sample
1911	~6.0	Sample
1912	~4.0	Sample
1913	~1.5	Sample
1914	~1.2	Sample
1915	~0.8	Sample
1916	~0.8	Sample
1917	~0.8	Sample
1918	~0.8	Sample
1919	~0.8	Sample
1920	~0.8	Sample
1921	~0.8	Sample
1922	~0.8	Sample
1923	~0.8	Sample
1924	~0.8	Sample
1925	~0.8	Sample
1926	~0.8	Sample
1927	~0.8	Sample
1928	~0.8	Sample
1929	~0.8	Sample
1930	~0.8	Sample
1931	~0.8	Sample
1932	~0.8	Sample
1933	~0.8	Sample
1934	~0.8	Sample
1935	~0.8	Sample
1936	~0.8	Sample
1937	~0.8	Sample
1938	~0.8	Sample
1939	~0.8	Sample
1940	~0.8	Sample
1941	~0.8	Sample
1942	~0.8	Sample
1943	~0.8	Sample
1944	~0.8	Sample
1945	~0.8	Sample
1946	~0.8	Sample
1947	~0.8	Sample
1948	~0.8	Sample
1949	~0.8	Sample
1950	~0.8	Sample
1951	~0.8	Sample
1952	~0.8	Sample
1953	~0.8	Sample
1954	~0.8	Sample
1955	~0.8	Sample
1956	~0.8	Sample
1957	~0.8	Sample
1958	~0.8	Sample
1959	~0.8	Sample
1960	~0.8	Sample
1961	~0.8	Sample
1962	~0.8	Sample
1963	~0.8	Sample
1964	~0.8	Sample
1965	~0.8	Sample
1966	~0.8	Sample
1967	~0.8	Sample
1968	~0.8	Sample
1969	~0.8	Sample
1970	~0.8	Sample
1971	~0.8	Sample
1972	~0.8	Sample
1973	~0.8	Sample
1974	~0.8	Sample
1975	~0.8	Sample
1976	~0.8	Sample
1977	~0.8	Sample
1978	~0.8	Sample
1979	~0.8	Sample
1980	~0.8	Sample
1981	~0.8	Sample
1982	~0.8	Sample
1983	~0.8	Sample
1984	~0.8	Sample
1985	~0.8	Sample
1986	~0.8	Sample
1987	~0.8	Sample
1988	~0.8	Sample
1989	~0.8	Sample
1990	~0.8	Sample
1991	~0.8	Sample
1992	~0.8	Sample
1993	~0.8	Sample
1994	~0.8	Sample
1995	~0.8	Sample
1996	~0.8	Sample
1997	~0.8	Sample
1998	~0.8	Sample
1999	~0.8	Sample
2000	~0.8	Sample
2001	~0.8	Sample
2002	~0.8	Sample
2003	~0.8	Sample
2004	~0.8	Sample
2005	~0.8	Sample
2006	~0.8	Sample
2007	~0.8	Sample
2008	~0.8	Sample
2009	~0.8	Sample
2010	~0.8	Sample
2011	~0.8	Sample
2012	~0.8	Sample
2013	~0	

MW-20
Cobalt, total
Exceedance / Sig. Decreasing Trend

u g / L

Year

Detect ☒

User Limit ☐

Trend test ☒

Samples ☒

95% LCL ☒

Standard ☒

MW-20
Copper, total

Y-axis: ug / L (log scale, 0.00 to 10000)
X-axis: Year (10 to 26)

Legend:

- Detect: ■
- ND: □
- User Limit: ---
- Trend test:
- Samples: ■
- 95% LCL:
- Standard: —

Key features:

- 95% LCL (blue line) at 1000 ug/L.
- User Limit (dashed line) at 100 ug/L.
- 95% LCL (yellow shaded area) at the bottom.
- Standard (blue line) at the bottom.
- Median ND/2 (diamond symbol) at Year 26.

Year	Copper Concentration (ug/L)
10	150
11	100
12	40
13	4
14	4
15	4
16	4
17	4
18	4
19	4
20	4
21	4
22	4
23	4
24	4
25	4
26	25

MW-20
Zinc, total

Y-axis: ug / L (log scale, 0.00 to 10000)
X-axis: Year (10 to 26)

Legend:

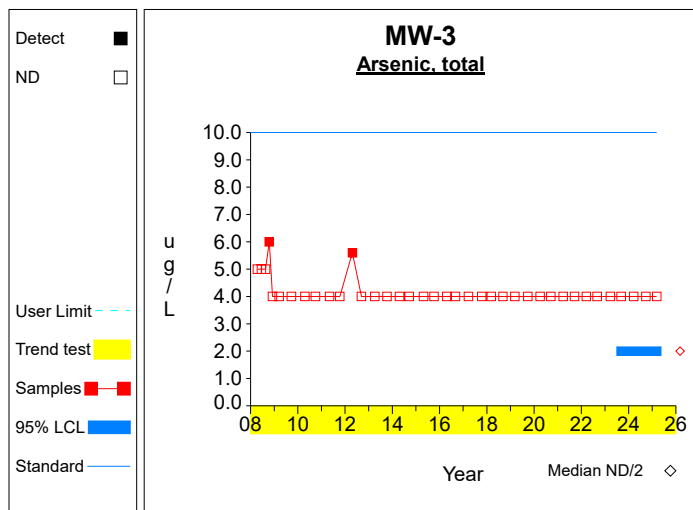
- Detect: ■
- ND: □
- User Limit: ---
- Trend test:
- Samples: ■ — ■
- 95% LCL:
- Standard: —

Year	Concentration (ug/L)	Status
10	800	Detect
11	300	Detect
12	100	Detect
13	25	Detect
14	8	Detect
15	20	Detect
16	8	Detect
17	20	Detect
18	8	Detect
19	80	Detect
20	35	Detect
21	22	ND
22	22	ND
23	22	ND
24	22	ND
25	22	ND
26	10	ND

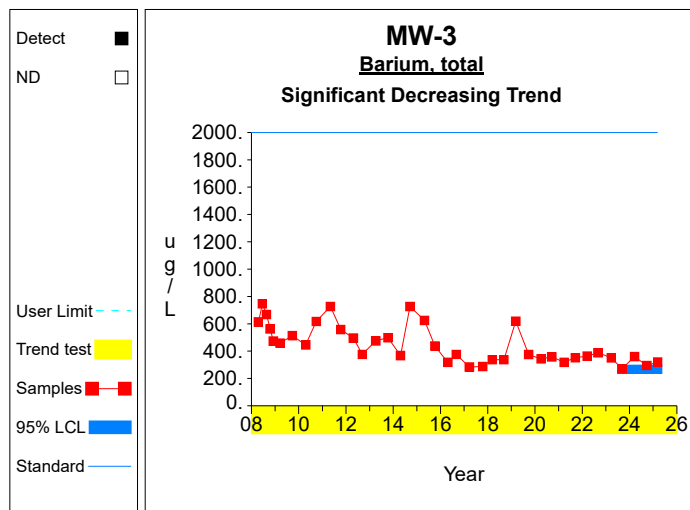
95% LCL: 0.00 to 0.05 ug/L (approx.)
User Limit: 2000 ug/L
Trend test: 2010 to 2020

Prepared by: Otter Creek Environmental

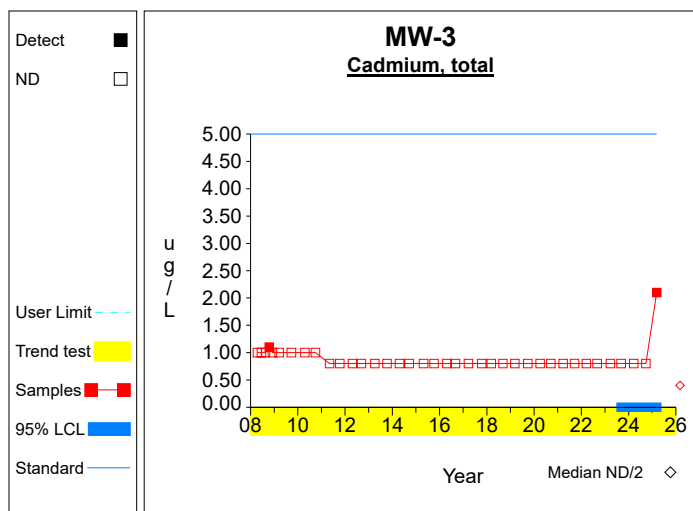
Confidence Limits (Assessment)



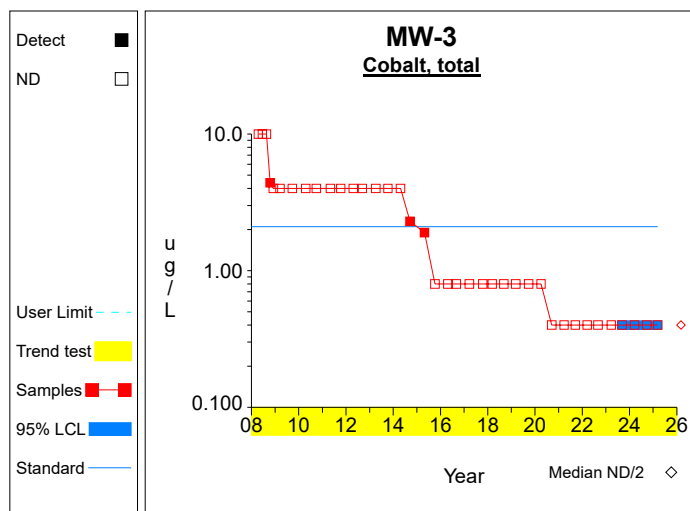
Graph 49



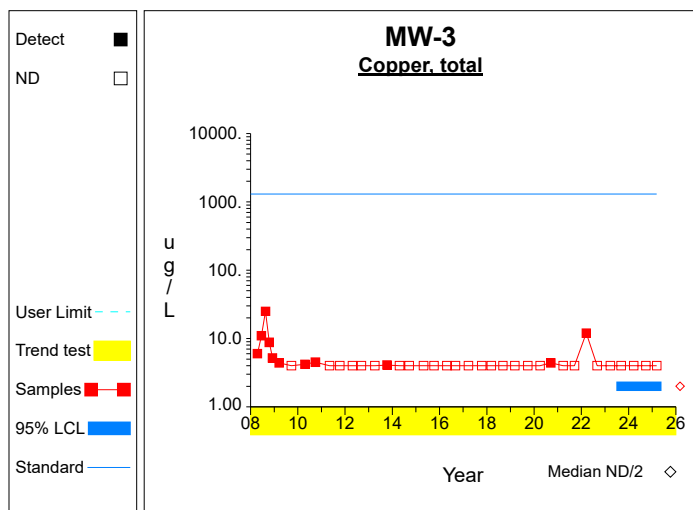
Graph 50



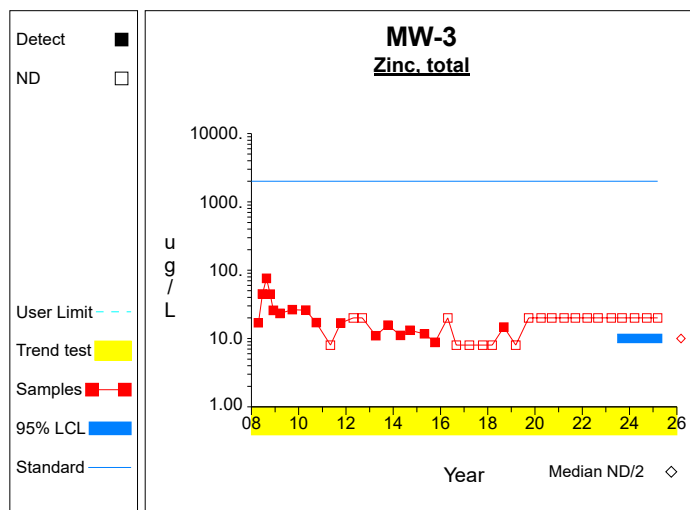
Graph 51



Graph 52

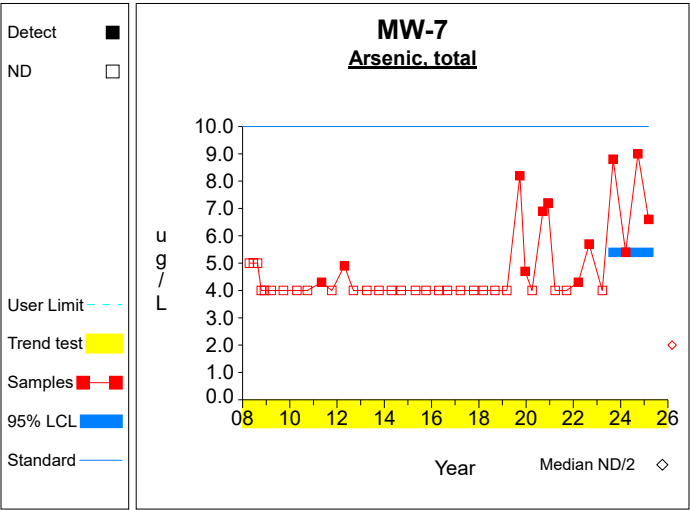


Graph 53

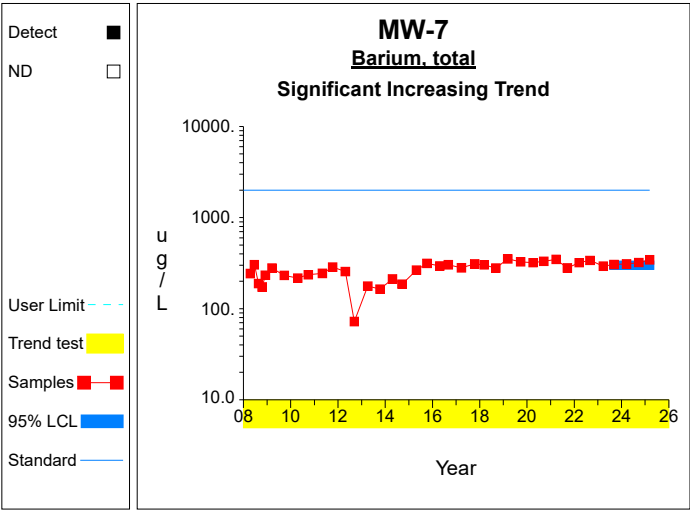


Graph 54

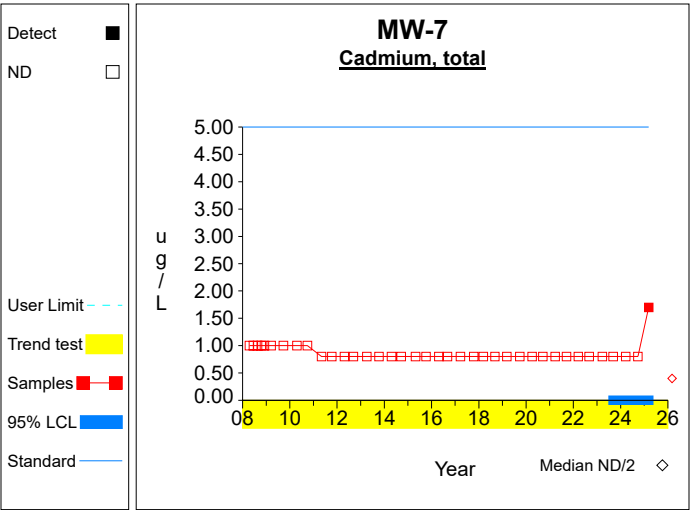
Confidence Limits (Assessment)



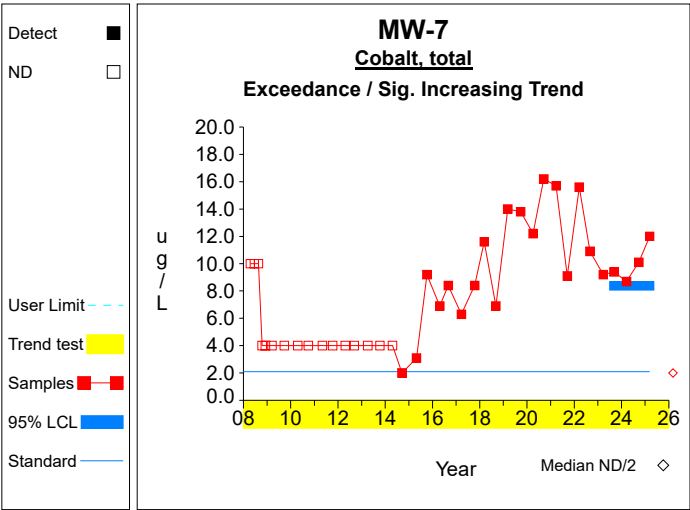
Graph 55



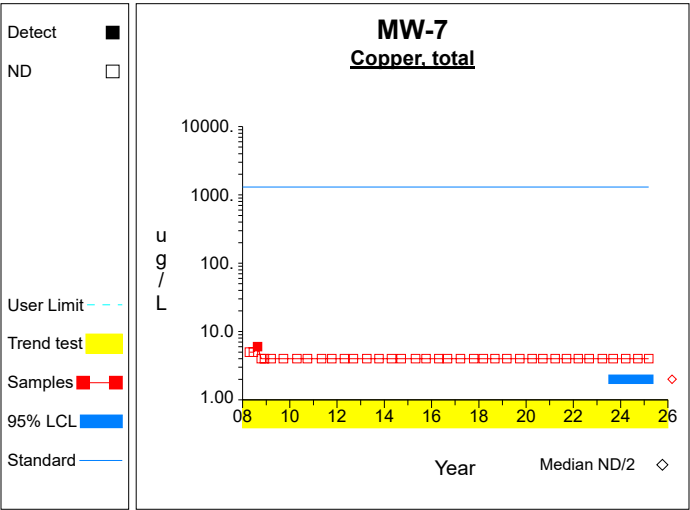
Graph 56



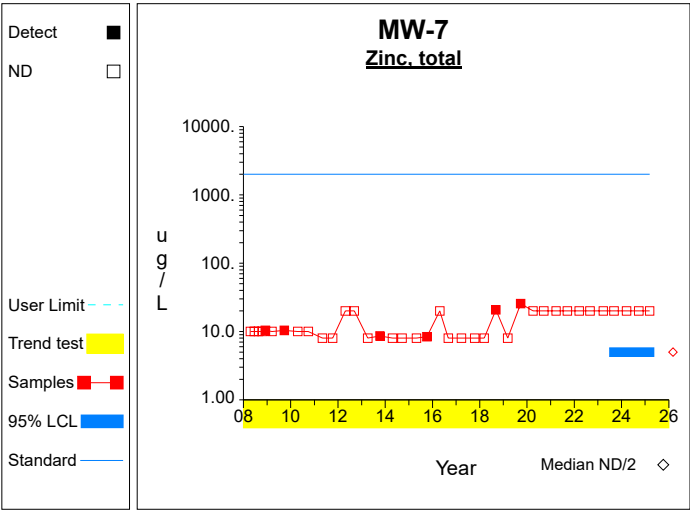
Graph 57



Graph 58



Graph 59



Graph 60

Attachment D

Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Acetone	GWD-1	9/24/2009		76.0	10.0	ug/L
Acetone	GWD-1	10/13/2017		20.2	10.0	ug/L
Benzene	GWD-1	4/23/2012		1.2	1.0	ug/L
Chloroethane	GWD-1	4/23/2012		3.4	1.0	ug/L
Acetone	MW-1	9/17/2014		11.2	10.0	ug/L
Benzene	MW-1	3/25/2021		1.5	1.0	ug/L
Benzene	MW-1	3/16/2022		1.0	1.0	ug/L
Benzene	MW-1	3/24/2023		1.7	1.0	ug/L
Benzene	MW-1	5/09/2023		1.6	1.0	ug/L
Chloroethane	MW-1	9/17/2014		1.4	1.0	ug/L
Chloroethane	MW-1	3/25/2021		1.6	1.0	ug/L
Chloroethane	MW-1	3/24/2023		1.3	1.0	ug/L
Chloroethane	MW-1	5/09/2023		1.3	1.0	ug/L
Trichloroethylene	MW-1	9/16/2021		3	1	ug/L
Acetone	MW-10	10/10/2011		13.5	10.0	ug/L
Acetone	MW-10	9/17/2014		18.8	10.0	ug/L
Acetone	MW-10	10/13/2017		18.7	10.0	ug/L
Acetone	MW-10	9/06/2018		11.3	10.0	ug/L
Acetone	MW-10	3/25/2021		10.7	10.0	ug/L
Benzene	MW-10	9/06/2018		1.4	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-10	9/06/2018		8	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-10	4/02/2020		14	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-10	3/10/2025		10	6	ug/L
Acetone	MW-11	10/13/2017		12.1	10.0	ug/L
Acetone	MW-13	10/13/2017		16.9	10.0	ug/L
1,1-dichloroethane	MW-16	4/16/2008		1.8	1.0	ug/L
1,1-dichloroethane	MW-16	6/17/2008		2.2	1.0	ug/L
1,1-dichloroethane	MW-16	8/20/2008		1.9	1.0	ug/L
1,1-dichloroethane	MW-16	10/16/2008		2.0	1.0	ug/L
1,1-dichloroethane	MW-16	12/04/2008		1.4	1.0	ug/L
1,1-dichloroethane	MW-16	3/16/2009		1.4	1.0	ug/L
1,1-dichloroethane	MW-16	9/24/2009		1.6	1.0	ug/L
1,1-dichloroethane	MW-16	4/19/2010		1.8	1.0	ug/L
1,1-dichloroethane	MW-16	5/03/2011		1.7	1.0	ug/L
1,1-dichloroethane	MW-16	10/11/2011		1.8	1.0	ug/L
1,1-dichloroethane	MW-16	4/23/2012		1.9	1.0	ug/L
1,1-dichloroethane	MW-16	9/10/2012		1.6	1.0	ug/L
1,1-dichloroethane	MW-16	4/04/2013		2.2	1.0	ug/L
1,1-dichloroethane	MW-16	10/11/2013		2.1	1.0	ug/L
1,1-dichloroethane	MW-16	4/23/2014		2.4	1.0	ug/L
1,1-dichloroethane	MW-16	9/18/2014		2.0	1.0	ug/L
1,1-dichloroethane	MW-16	4/29/2015		2.2	1.0	ug/L
1,1-dichloroethane	MW-16	10/06/2015		1.9	1.0	ug/L
1,1-dichloroethane	MW-16	4/23/2016		2.5	1.0	ug/L
1,1-dichloroethane	MW-16	9/01/2016		1.9	1.0	ug/L
1,1-dichloroethane	MW-16	3/22/2017		1.6	1.0	ug/L
1,1-dichloroethane	MW-16	10/13/2017		1.8	1.0	ug/L
1,1-dichloroethane	MW-16	3/09/2018		2.4	1.0	ug/L
1,1-dichloroethane	MW-16	3/07/2019		1.7	1.0	ug/L
1,1-dichloroethane	MW-16	9/26/2019		1.3	1.0	ug/L
1,1-dichloroethane	MW-16	3/25/2021		1.2	1.0	ug/L
1,1-dichloroethane	MW-16	3/16/2022		1.9	1.0	ug/L
1,1-dichloroethane	MW-16	3/18/2024		1.0	1.0	ug/L
1,1-dichloroethane	MW-16	3/10/2025		1.2	1.0	ug/L
1,2-dichloropropane	MW-16	3/16/2022		1	1	ug/L
1,4-dichlorobenzene	MW-16	3/10/1994		2.6	1.0	ug/L
1,4-dichlorobenzene	MW-16	6/09/1994		2.6	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/28/2007		3.8	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/27/2007		3.1	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/16/2008		3.5	1.0	ug/L
1,4-dichlorobenzene	MW-16	6/17/2008		4.1	1.0	ug/L
1,4-dichlorobenzene	MW-16	8/20/2008		4.1	1.0	ug/L
1,4-dichlorobenzene	MW-16	10/16/2008		3.2	1.0	ug/L
1,4-dichlorobenzene	MW-16	12/04/2008		4.9	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/16/2009		4.2	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/24/2009		3.0	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/19/2010		3.6	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/29/2010		4.2	1.0	ug/L
1,4-dichlorobenzene	MW-16	5/03/2011		3.6	1.0	ug/L
1,4-dichlorobenzene	MW-16	10/11/2011		3.4	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/23/2012		2.5	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/10/2012		2.7	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/04/2013		2.3	1.0	ug/L
1,4-dichlorobenzene	MW-16	10/11/2013		2.0	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/23/2014		1.7	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/29/2015		1.5	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,4-dichlorobenzene	MW-16	10/06/2015		2.0	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/23/2016		1.6	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/01/2016		2.1	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/22/2017		2.6	1.0	ug/L
1,4-dichlorobenzene	MW-16	10/13/2017		2.0	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/09/2018		1.8	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/06/2018		2.7	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/07/2019		3.8	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/17/2020		1.8	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/25/2021		1.8	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/16/2021		2.2	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/16/2022		2.1	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/18/2024		1.8	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/10/2025		1.2	1.0	ug/L
Acetone	MW-16	10/13/2017		13.1	10.0	ug/L
Benzene	MW-16	9/23/1993		2.4	2.0	ug/L
Benzene	MW-16	3/10/1994		2.1	2.0	ug/L
Benzene	MW-16	4/07/1995		1.3	1.0	ug/L
Benzene	MW-16	10/04/1995		1.3	1.0	ug/L
Benzene	MW-16	9/17/1996		1.6	1.0	ug/L
Benzene	MW-16	3/20/1997		2.1	2.0	ug/L
Benzene	MW-16	9/11/1997		2.8	2.0	ug/L
Benzene	MW-16	3/18/1999		1.6	1.0	ug/L
Benzene	MW-16	9/01/1999		2.3	2.0	ug/L
Benzene	MW-16	4/04/2000		1.7	1.0	ug/L
Benzene	MW-16	9/28/2000		1.5	1.0	ug/L
Benzene	MW-16	3/30/2001		1.8	1.0	ug/L
Benzene	MW-16	10/08/2001		1.6	1.0	ug/L
Benzene	MW-16	4/04/2002		1.6	1.0	ug/L
Benzene	MW-16	9/16/2002		1.5	1.0	ug/L
Benzene	MW-16	4/02/2003		1.2	1.0	ug/L
Benzene	MW-16	9/23/2003		1.6	1.0	ug/L
Benzene	MW-16	9/09/2004		1.1	1.0	ug/L
Benzene	MW-16	4/14/2005		1.6	1.0	ug/L
Benzene	MW-16	9/30/2005		1.8	1.0	ug/L
Benzene	MW-16	4/05/2006		1.5	1.0	ug/L
Benzene	MW-16	4/28/2007		1.2	1.0	ug/L
Benzene	MW-16	9/27/2007		1.2	1.0	ug/L
Benzene	MW-16	4/16/2008		1.4	1.0	ug/L
Benzene	MW-16	6/17/2008		1.4	1.0	ug/L
Benzene	MW-16	8/20/2008		1.5	1.0	ug/L
Benzene	MW-16	10/16/2008		1.4	1.0	ug/L
Benzene	MW-16	12/04/2008		1.9	1.0	ug/L
Benzene	MW-16	3/16/2009		1.7	1.0	ug/L
Benzene	MW-16	9/24/2009		1.2	1.0	ug/L
Benzene	MW-16	4/19/2010		1.2	1.0	ug/L
Benzene	MW-16	9/29/2010		1.7	1.0	ug/L
Benzene	MW-16	5/03/2011		1.3	1.0	ug/L
Benzene	MW-16	10/11/2011		1.3	1.0	ug/L
Benzene	MW-16	4/23/2012		1.0	1.0	ug/L
Benzene	MW-16	9/10/2012		1.2	1.0	ug/L
Benzene	MW-16	10/11/2013		1.1	1.0	ug/L
Benzene	MW-16	10/06/2015		1.0	1.0	ug/L
Benzene	MW-16	9/01/2016		1.2	1.0	ug/L
Benzene	MW-16	3/22/2017		1.3	1.0	ug/L
Benzene	MW-16	10/13/2017		1.1	1.0	ug/L
Benzene	MW-16	9/06/2018		1.7	1.0	ug/L
Benzene	MW-16	3/07/2019		2.1	1.0	ug/L
Benzene	MW-16	4/02/2020		1.6	1.0	ug/L
Benzene	MW-16	3/25/2021		1.5	1.0	ug/L
Benzene	MW-16	9/16/2021		1.3	1.0	ug/L
Benzene	MW-16	3/16/2022		1.6	1.0	ug/L
Benzene	MW-16	3/18/2024		1.5	1.0	ug/L
Benzene	MW-16	3/10/2025		1.1	1.0	ug/L
Chlorobenzene	MW-16	4/16/2008		9.1	1.0	ug/L
Chlorobenzene	MW-16	6/17/2008		9.9	1.0	ug/L
Chlorobenzene	MW-16	8/20/2008		10.4	1.0	ug/L
Chlorobenzene	MW-16	10/16/2008		9.2	1.0	ug/L
Chlorobenzene	MW-16	12/04/2008		14.5	1.0	ug/L
Chlorobenzene	MW-16	3/16/2009		12.3	1.0	ug/L
Chlorobenzene	MW-16	9/24/2009		8.7	1.0	ug/L
Chlorobenzene	MW-16	4/19/2010		9.2	1.0	ug/L
Chlorobenzene	MW-16	9/29/2010		11.3	1.0	ug/L
Chlorobenzene	MW-16	5/03/2011		9.6	1.0	ug/L
Chlorobenzene	MW-16	10/11/2011		8.7	1.0	ug/L
Chlorobenzene	MW-16	4/23/2012		6.6	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Chlorobenzene	MW-16	9/10/2012		7.5	1.0	ug/L
Chlorobenzene	MW-16	4/04/2013		5.8	1.0	ug/L
Chlorobenzene	MW-16	10/11/2013		6.0	1.0	ug/L
Chlorobenzene	MW-16	4/23/2014		4.6	1.0	ug/L
Chlorobenzene	MW-16	9/18/2014		4.3	1.0	ug/L
Chlorobenzene	MW-16	4/29/2015		4.4	1.0	ug/L
Chlorobenzene	MW-16	10/06/2015		4.9	1.0	ug/L
Chlorobenzene	MW-16	4/23/2016		3.5	1.0	ug/L
Chlorobenzene	MW-16	9/01/2016		6.0	1.0	ug/L
Chlorobenzene	MW-16	3/22/2017		6.4	1.0	ug/L
Chlorobenzene	MW-16	10/13/2017		5.1	1.0	ug/L
Chlorobenzene	MW-16	3/09/2018		4.7	1.0	ug/L
Chlorobenzene	MW-16	9/06/2018		8.1	1.0	ug/L
Chlorobenzene	MW-16	3/07/2019		9.7	1.0	ug/L
Chlorobenzene	MW-16	9/26/2019		4.8	1.0	ug/L
Chlorobenzene	MW-16	4/02/2020		8.8	1.0	ug/L
Chlorobenzene	MW-16	9/17/2020		4.7	1.0	ug/L
Chlorobenzene	MW-16	3/25/2021		5.8	1.0	ug/L
Chlorobenzene	MW-16	9/16/2021		7.3	1.0	ug/L
Chlorobenzene	MW-16	3/16/2022		5.2	1.0	ug/L
Chlorobenzene	MW-16	9/01/2022		2.1	1.0	ug/L
Chlorobenzene	MW-16	3/24/2023		3.0	1.0	ug/L
Chlorobenzene	MW-16	3/18/2024		5.2	1.0	ug/L
Chlorobenzene	MW-16	9/25/2024		2.3	1.0	ug/L
Chlorobenzene	MW-16	3/10/2025		2.7	1.0	ug/L
Cis-1,2-dichloroethylene	MW-16	9/01/2016		1.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-16	10/13/2017		1.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW-16	3/07/2019		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-16	3/25/2021		1.3	1.0	ug/L
Cis-1,2-dichloroethylene	MW-16	3/16/2022		2.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-16	3/10/2025		1.3	1.0	ug/L
Dichlorodifluoromethane	MW-16	10/11/2011		4.0	1.0	ug/L
Dichlorodifluoromethane	MW-16	4/23/2012		5.0	1.0	ug/L
Dichlorodifluoromethane	MW-16	9/10/2012		3.6	1.0	ug/L
Dichlorodifluoromethane	MW-16	4/04/2013		4.3	1.0	ug/L
Dichlorodifluoromethane	MW-16	10/11/2013		2.9	1.0	ug/L
Dichlorodifluoromethane	MW-16	4/23/2014		4.3	1.0	ug/L
Dichlorodifluoromethane	MW-16	9/18/2014		3.6	1.0	ug/L
Dichlorodifluoromethane	MW-16	4/29/2015		2.6	1.0	ug/L
Dichlorodifluoromethane	MW-16	10/06/2015		2.9	1.0	ug/L
Dichlorodifluoromethane	MW-16	4/23/2016		3.2	1.0	ug/L
Dichlorodifluoromethane	MW-16	9/01/2016		3.6	1.0	ug/L
Dichlorodifluoromethane	MW-16	3/22/2017		2.2	1.0	ug/L
Dichlorodifluoromethane	MW-16	10/13/2017		1.6	1.0	ug/L
Dichlorodifluoromethane	MW-16	3/09/2018		3.0	1.0	ug/L
Dichlorodifluoromethane	MW-16	3/07/2019		4.6	1.0	ug/L
Trichloroethylene	MW-16	9/23/1993		1.8	1.0	ug/L
Vinyl chloride	MW-16	6/17/2008		1.0	1.0	ug/L
Vinyl chloride	MW-16	9/24/2009		1.6	1.0	ug/L
Vinyl chloride	MW-16	3/07/2019		2.5	1.0	ug/L
1,1-dichloroethane	MW-18	4/23/2012		1.3	1.0	ug/L
Acetone	MW-18	10/13/2017		18	10	ug/L
Benzene	MW-18	10/13/2017		1.6	1.0	ug/L
Bromomethane	MW-18	10/11/2013		1.6	1.0	ug/L
Chloroethane	MW-18	10/13/2017		1.6	1.0	ug/L
Methyl iodide	MW-18	10/11/2013		1.5	1.0	ug/L
1,1-dichloroethane	MW-19	5/04/2011		1.3	1.0	ug/L
1,1-dichloroethane	MW-19	10/10/2011		1.7	1.0	ug/L
1,1-dichloroethane	MW-19	9/11/2012		1.6	1.0	ug/L
1,1-dichloroethane	MW-19	4/05/2013		1.8	1.0	ug/L
1,1-dichloroethane	MW-19	10/11/2013		2.9	1.0	ug/L
1,1-dichloroethane	MW-19	4/22/2014		2.5	1.0	ug/L
1,1-dichloroethane	MW-19	9/17/2014		1.8	1.0	ug/L
1,1-dichloroethane	MW-19	10/06/2015		1.3	1.0	ug/L
1,1-dichloroethane	MW-19	4/23/2016		2.2	1.0	ug/L
1,1-dichloroethane	MW-19	9/01/2016		1.6	1.0	ug/L
1,1-dichloroethane	MW-19	3/22/2017		2.2	1.0	ug/L
1,1-dichloroethane	MW-19	10/13/2017		1.0	1.0	ug/L
1,1-dichloroethane	MW-19	3/09/2018		3.1	1.0	ug/L
1,1-dichloroethane	MW-19	9/06/2018		3.0	1.0	ug/L
1,1-dichloroethane	MW-19	9/17/2020		2.3	1.0	ug/L
1,1-dichloroethane	MW-19	3/25/2021		2.6	1.0	ug/L
1,1-dichloroethane	MW-19	9/16/2021		3.4	1.0	ug/L
1,1-dichloroethane	MW-19	3/16/2022		4.9	1.0	ug/L
1,1-dichloroethane	MW-19	9/01/2022		3.8	1.0	ug/L
1,1-dichloroethane	MW-19	3/24/2023		3.1	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,1-dichloroethane	MW-19	9/07/2023		2.9	1.0	ug/L
1,1-dichloroethane	MW-19	3/18/2024		2.3	1.0	ug/L
Acetone	MW-19	10/13/2017		19.8	10.0	ug/L
Acetone	MW-19	9/06/2018		15.9	10.0	ug/L
Acetone	MW-19	9/26/2019		107.0	10.0	ug/L
Acetone	MW-19	9/17/2020		11.2	10.0	ug/L
Benzene	MW-19	3/16/2022		1.2	1.0	ug/L
Benzene	MW-19	9/01/2022		1.0	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-19	4/24/2012		33	8	ug/L
Chloroethane	MW-19	3/16/2022		1.4	1.0	ug/L
Chloroethane	MW-19	9/01/2022		1.2	1.0	ug/L
Chloromethane	MW-19	4/23/2016		3.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	10/11/2013		1.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	4/22/2014		1.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	4/23/2016		1.3	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	9/01/2016		1.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	3/22/2017		1.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	3/09/2018		1.9	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	9/06/2018		2.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	9/17/2020		1.7	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	3/25/2021		2.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	9/16/2021		2.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	3/16/2022		4.7	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	9/01/2022		3.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	3/24/2023		2.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	9/07/2023		1.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	3/18/2024		1.4	1.0	ug/L
Dichlorodifluoromethane	MW-19	4/24/2012		1	1	ug/L
Dichlorodifluoromethane	MW-19	3/22/2017		1	1	ug/L
Vinyl chloride	MW-19	9/06/2018		3.2	1.0	ug/L
Vinyl chloride	MW-19	9/17/2020		1.4	1.0	ug/L
Vinyl chloride	MW-19	3/25/2021		1.2	1.0	ug/L
Vinyl chloride	MW-19	9/16/2021		1.9	1.0	ug/L
Vinyl chloride	MW-19	3/16/2022		1.9	1.0	ug/L
Vinyl chloride	MW-19	9/01/2022		2.1	1.0	ug/L
Vinyl chloride	MW-19	3/24/2023		1.0	1.0	ug/L
Vinyl chloride	MW-19	9/07/2023		1.2	1.0	ug/L
1,1-dichloroethane	MW-19R	11/25/2024		3.0	1.0	ug/L
1,1-dichloroethane	MW-19R	3/10/2025		2.7	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19R	11/25/2024		2.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19R	3/10/2025		2.0	1.0	ug/L
Benzene	MW-1D	9/07/2023		1.1	1.0	ug/L
Benzene	MW-1D	3/18/2024		1.3	1.0	ug/L
Chlorobenzene	MW-1D	9/07/2023		1.0	1.0	ug/L
Chlorobenzene	MW-1D	3/18/2024		1.5	1.0	ug/L
Chloroethane	MW-1D	3/18/2024		1.1	1.0	ug/L
Acetone	MW-20	10/11/2013		13.0	10.0	ug/L
Acetone	MW-20	4/23/2014		18.8	10.0	ug/L
Acetone	MW-20	3/16/2022		57.2	10.0	ug/L
Benzene	MW-20	9/29/2010		1.0	1.0	ug/L
Benzene	MW-20	5/04/2011		1.1	1.0	ug/L
Benzene	MW-20	10/11/2011		1.4	1.0	ug/L
Benzene	MW-20	9/11/2012		2.3	1.0	ug/L
Benzene	MW-20	4/05/2013		1.8	1.0	ug/L
Benzene	MW-20	10/11/2013		1.5	1.0	ug/L
Benzene	MW-20	4/23/2014		1.6	1.0	ug/L
Benzene	MW-20	9/18/2014		1.9	1.0	ug/L
Benzene	MW-20	4/28/2015		1.9	1.0	ug/L
Benzene	MW-20	10/06/2015		2.0	1.0	ug/L
Benzene	MW-20	4/23/2016		1.5	1.0	ug/L
Benzene	MW-20	9/01/2016		1.8	1.0	ug/L
Benzene	MW-20	3/21/2017		2.6	1.0	ug/L
Benzene	MW-20	10/13/2017		2.0	1.0	ug/L
Benzene	MW-20	3/09/2018		2.9	1.0	ug/L
Benzene	MW-20	9/06/2018		3.6	1.0	ug/L
Benzene	MW-20	3/07/2019		2.5	1.0	ug/L
Benzene	MW-20	9/26/2019		3.1	1.0	ug/L
Benzene	MW-20	4/02/2020		2.8	1.0	ug/L
Benzene	MW-20	3/25/2021		3.3	1.0	ug/L
Benzene	MW-20	9/16/2021		3.0	1.0	ug/L
Benzene	MW-20	3/16/2022		3.8	1.0	ug/L
Benzene	MW-20	9/01/2022		2.6	1.0	ug/L
Benzene	MW-20	3/24/2023		2.6	1.0	ug/L
Benzene	MW-20	9/07/2023		2.0	1.0	ug/L
Benzene	MW-20	3/18/2024		2.2	1.0	ug/L
Benzene	MW-20	9/25/2024		2.1	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Benzene	MW-20	3/10/2025		1.1	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-20	9/16/2021		8	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-20	3/16/2022		7	6	ug/L
Chlorobenzene	MW-20	9/06/2018		1.2	1.0	ug/L
Chlorobenzene	MW-20	4/02/2020		1.0	1.0	ug/L
Chlorobenzene	MW-20	9/17/2020		1.2	1.0	ug/L
Chlorobenzene	MW-20	3/25/2021		1.1	1.0	ug/L
Chlorobenzene	MW-20	9/16/2021		1.1	1.0	ug/L
Chlorobenzene	MW-20	3/16/2022		1.1	1.0	ug/L
Chlorobenzene	MW-20	9/01/2022		1.1	1.0	ug/L
Chlorobenzene	MW-20	9/07/2023		1.0	1.0	ug/L
Chlorobenzene	MW-20	3/18/2024		1.2	1.0	ug/L
Chlorobenzene	MW-20	9/25/2024		1.9	1.0	ug/L
Chloroethane	MW-20	4/19/2010		1.9	1.0	ug/L
Chloroethane	MW-20	5/27/2010		3.0	1.0	ug/L
Chloroethane	MW-20	7/28/2010		3.1	1.0	ug/L
Chloroethane	MW-20	9/29/2010		4.0	1.0	ug/L
Chloroethane	MW-20	11/03/2010		3.0	1.0	ug/L
Chloroethane	MW-20	5/04/2011		4.0	1.0	ug/L
Chloroethane	MW-20	10/11/2011		4.3	1.0	ug/L
Chloroethane	MW-20	9/11/2012		4.5	1.0	ug/L
Chloroethane	MW-20	4/05/2013		2.3	1.0	ug/L
Chloroethane	MW-20	10/11/2013		3.8	1.0	ug/L
Chloroethane	MW-20	4/23/2014		3.0	1.0	ug/L
Chloroethane	MW-20	9/18/2014		2.1	1.0	ug/L
Chloroethane	MW-20	4/28/2015		2.9	1.0	ug/L
Chloroethane	MW-20	10/06/2015		2.3	1.0	ug/L
Chloroethane	MW-20	4/23/2016		1.6	1.0	ug/L
Chloroethane	MW-20	3/21/2017		2.4	1.0	ug/L
Chloroethane	MW-20	10/13/2017		2.3	1.0	ug/L
Chloroethane	MW-20	3/09/2018		2.0	1.0	ug/L
Chloroethane	MW-20	9/06/2018		2.8	1.0	ug/L
Chloroethane	MW-20	3/07/2019		1.6	1.0	ug/L
Chloroethane	MW-20	9/26/2019		2.0	1.0	ug/L
Chloroethane	MW-20	4/02/2020		1.6	1.0	ug/L
Chloroethane	MW-20	9/17/2020		1.6	1.0	ug/L
Chloroethane	MW-20	3/25/2021		1.6	1.0	ug/L
Chloroethane	MW-20	9/16/2021		1.8	1.0	ug/L
Chloroethane	MW-20	3/16/2022		1.6	1.0	ug/L
Chloroethane	MW-20	9/01/2022		1.7	1.0	ug/L
Chloroethane	MW-20	9/07/2023		1.5	1.0	ug/L
Chloroethane	MW-20	3/18/2024		1.2	1.0	ug/L
1,1,1-trichloroethane	MW-3	9/23/1993		1.1	1.0	ug/L
1,1-dichloroethane	MW-3	4/16/2008		1.8	1.0	ug/L
1,1-dichloroethane	MW-3	6/17/2008		1.4	1.0	ug/L
1,1-dichloroethane	MW-3	4/19/2010		3.1	1.0	ug/L
1,1-dichloroethane	MW-3	5/03/2011		1.7	1.0	ug/L
1,1-dichloroethane	MW-3	4/23/2012		1.6	1.0	ug/L
1,1-dichloroethane	MW-3	9/17/2014		1.3	1.0	ug/L
1,1-dichloroethane	MW-3	9/01/2016		1.5	1.0	ug/L
Acetone	MW-3	10/13/2017		15.4	10.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-3	9/16/2021		8	6	ug/L
Chloromethane	MW-3	4/19/2010		1	1	ug/L
Cis-1,2-dichloroethylene	MW-3	4/16/2008		4.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	6/17/2008		2.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	9/24/2009		1.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	4/19/2010		6.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	9/29/2010		1.3	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	5/03/2011		2.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	10/11/2011		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	4/23/2012		2.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	9/17/2014		2.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	9/01/2016		2.3	1.0	ug/L
Dichlorodifluoromethane	MW-3	4/19/2010		1.2	1.0	ug/L
Trichloroethylene	MW-3	9/23/1993		1.4	1.0	ug/L
1,1-dichloropropene	MW-7	3/25/2021		3.7	1.0	ug/L
2,4,5-t	MW-7	3/25/2021		2.0	.5	ug/L
Acetone	MW-7	10/13/2017		12.4	10.0	ug/L
Benzene	MW-7	9/16/2021		1.4	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-7	9/01/2022		9	6	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Attachment E

Assessment Statistics for VOCs

Table 1

**Confidence Intervals for Comparing the Mean of the Last
4 Measurements to an Assessment Monitoring Standard**

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
1,1-dichloroethane	ug/L	MW-1	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	MW-1	4	0.500	0.000	1.176	0.500	0.500	75.000		
Benzene	ug/L	MW-1	4	1.075	0.665	1.176	0.293	1.857	5.000		
Bis(2-ethylhexyl) phthalate	ug/L	MW-1	0								*
Chlorobenzene	ug/L	MW-1	4	0.500	0.000	1.176	0.500	0.500	100.000		
Chloroethane	ug/L	MW-1	4	0.900	0.462	1.176	0.357	1.443	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-1	4	0.500	0.000	1.176	0.500	0.500	70.000		
1,1-dichloroethane	ug/L	MW-10	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	MW-10	4	0.500	0.000	1.176	0.500	0.500	75.000		
Benzene	ug/L	MW-10	4	0.500	0.000	1.176	0.500	0.500	5.000		
Bis(2-ethylhexyl) phthalate	ug/L	MW-10	4	4.750	3.500	1.176	0.633	8.867	6.000		
Chlorobenzene	ug/L	MW-10	4	0.500	0.000	1.176	0.500	0.500	100.000		
Chloroethane	ug/L	MW-10	4	0.500	0.000	1.176	0.500	0.500	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-10	4	0.500	0.000	1.176	0.500	0.500	70.000		
1,1-dichloroethane	ug/L	MW-16	4	0.800	0.356	1.176	0.381	1.219	140.000		
1,4-dichlorobenzene	ug/L	MW-16	4	1.000	0.627	1.176	0.262	1.738	75.000	dec	
Benzene	ug/L	MW-16	4	0.900	0.490	1.176	0.324	1.476	5.000		
Bis(2-ethylhexyl) phthalate	ug/L	MW-16	4	4.000	0.000	1.176	4.000	4.000	6.000		
Chlorobenzene	ug/L	MW-16	4	2.675	1.936	1.176	0.397	4.953	100.000	dec	
Chloroethane	ug/L	MW-16	4	0.500	0.000	1.176	0.500	0.500	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-16	4	0.700	0.400	1.176	0.229	1.171	70.000		
1,1-dichloroethane	ug/L	MW-19R	2								*
1,4-dichlorobenzene	ug/L	MW-19R	2								*
Benzene	ug/L	MW-19R	2								*
Bis(2-ethylhexyl) phthalate	ug/L	MW-19R	0								*
Chlorobenzene	ug/L	MW-19R	2								*
Chloroethane	ug/L	MW-19R	2								*
Cis-1,2-dichloroethylene	ug/L	MW-19R	2								*
1,1-dichloroethane	ug/L	MW-1D	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	MW-1D	4	0.500	0.000	1.176	0.500	0.500	75.000		
Benzene	ug/L	MW-1D	4	0.850	0.412	1.176	0.365	1.335	5.000		
Bis(2-ethylhexyl) phthalate	ug/L	MW-1D	2								*
Chlorobenzene	ug/L	MW-1D	4	0.875	0.479	1.176	0.312	1.438	100.000		
Chloroethane	ug/L	MW-1D	4	0.650	0.300	1.176	0.297	1.003	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-1D	4	0.500	0.000	1.176	0.500	0.500	70.000		
1,1-dichloroethane	ug/L	MW-20	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	MW-20	4	0.500	0.000	1.176	0.500	0.500	75.000		
Benzene	ug/L	MW-20	4	1.850	0.507	1.176	1.254	2.446	5.000	inc	
Bis(2-ethylhexyl) phthalate	ug/L	MW-20	4	5.750	2.062	1.176	3.325	8.175	6.000		
Chlorobenzene	ug/L	MW-20	4	1.150	0.580	1.176	0.467	1.833	100.000		
Chloroethane	ug/L	MW-20	4	0.925	0.506	1.176	0.330	1.520	2800.000	dec	
Cis-1,2-dichloroethylene	ug/L	MW-20	4	0.500	0.000	1.176	0.500	0.500	70.000		

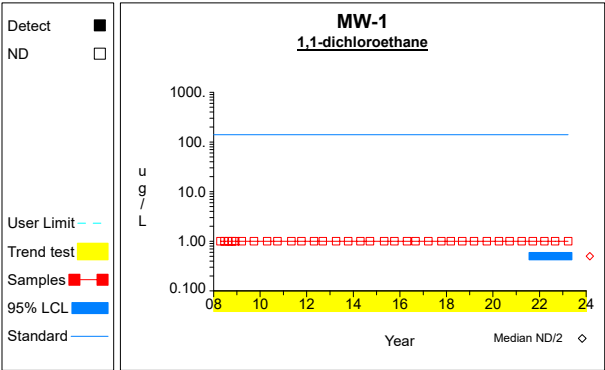
* - Insufficient Data

** - Significant Exceedance

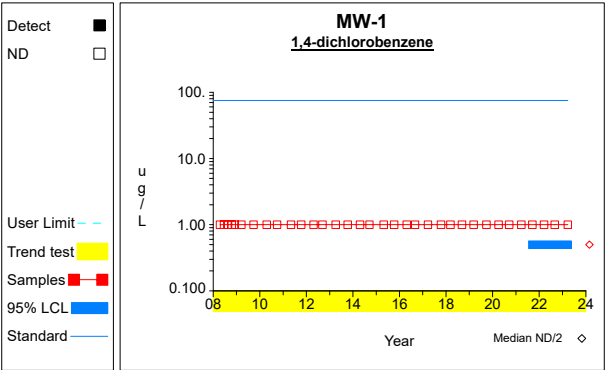
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

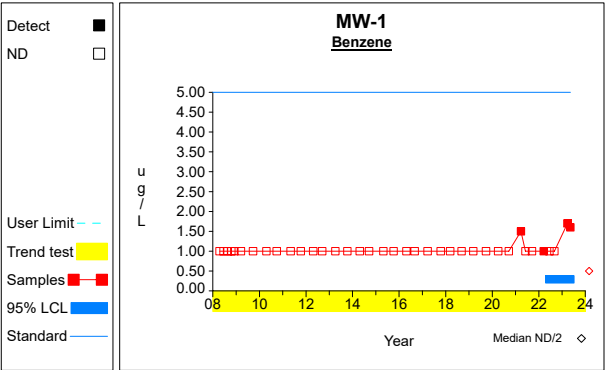
Confidence Limits (Assessment)



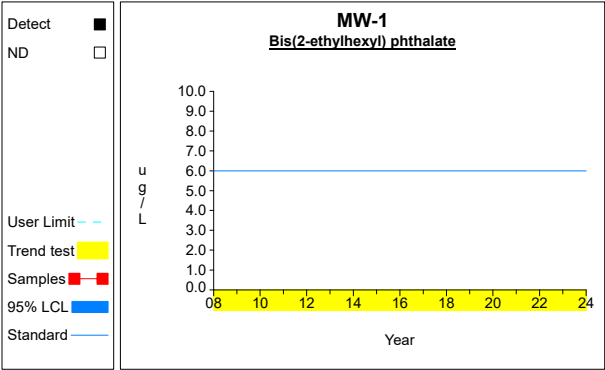
Graph 1



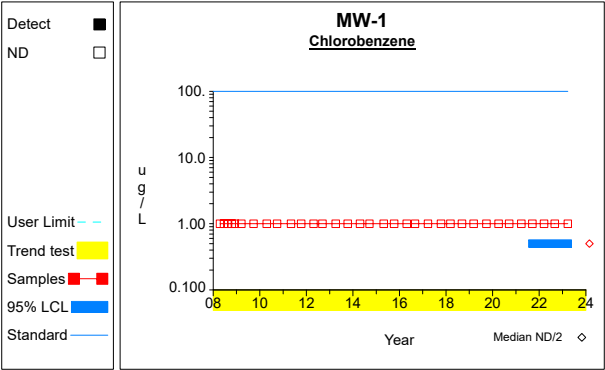
Graph 2



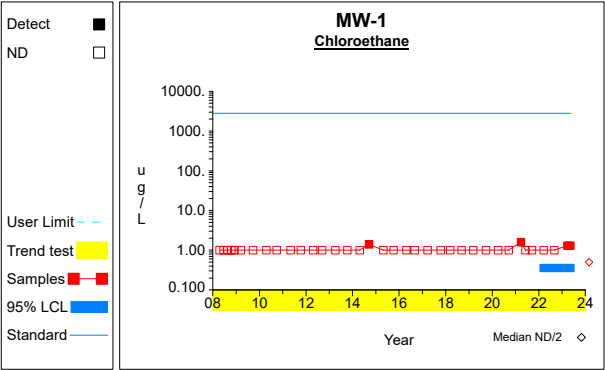
Graph 3



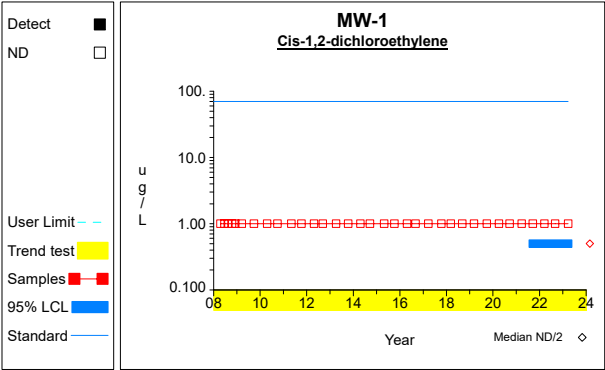
Graph 4



Graph 5

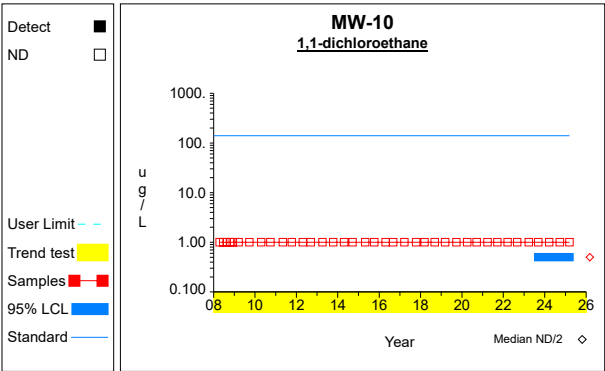


Graph 6

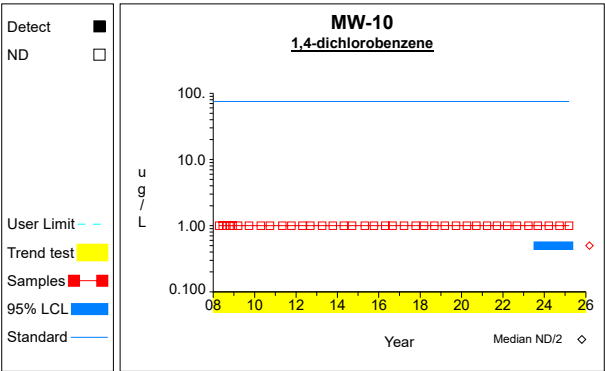


Graph 7

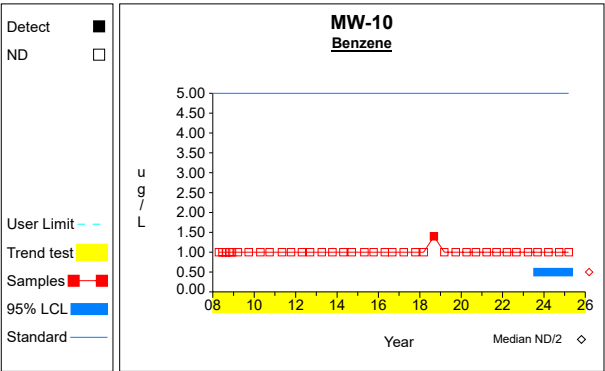
Confidence Limits (Assessment)



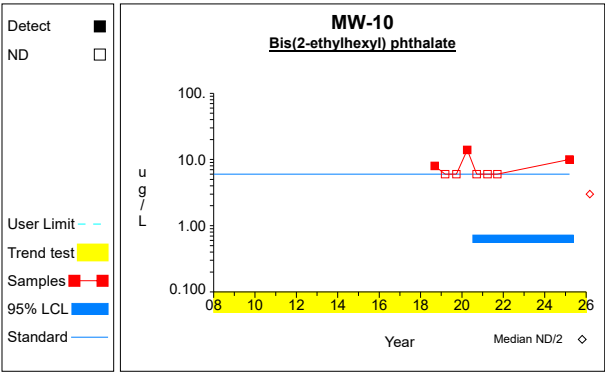
Graph 8



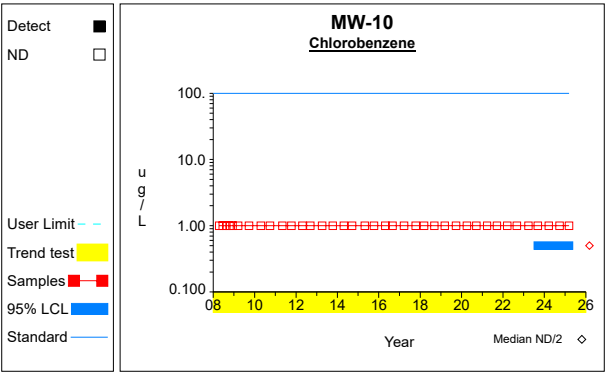
Graph 9



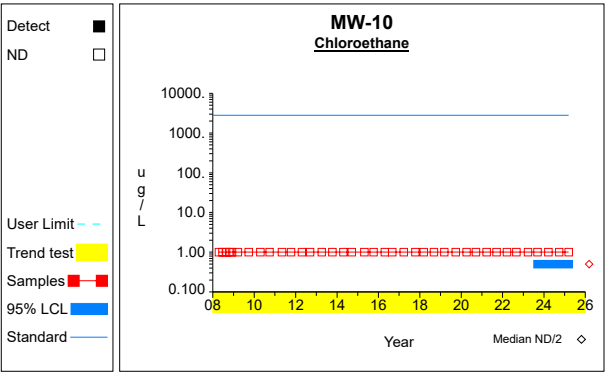
Graph 10



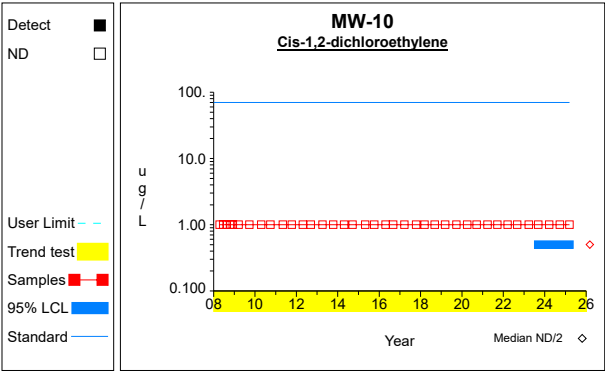
Graph 11



Graph 12

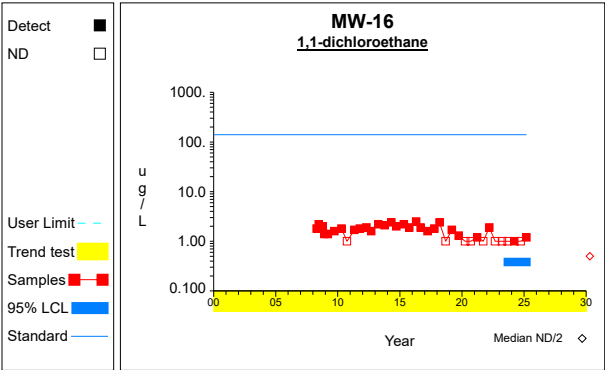


Graph 13

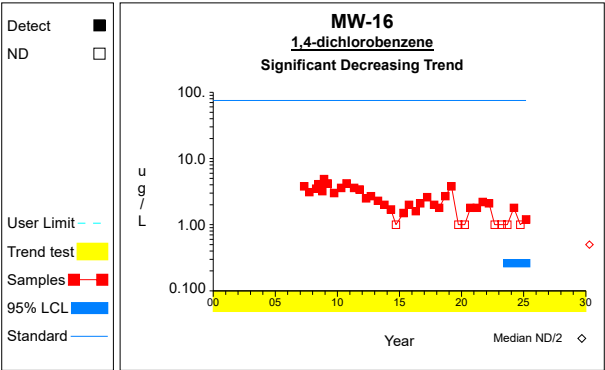


Graph 14

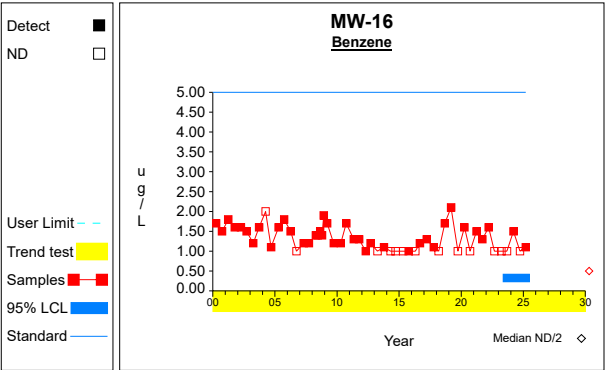
Confidence Limits (Assessment)



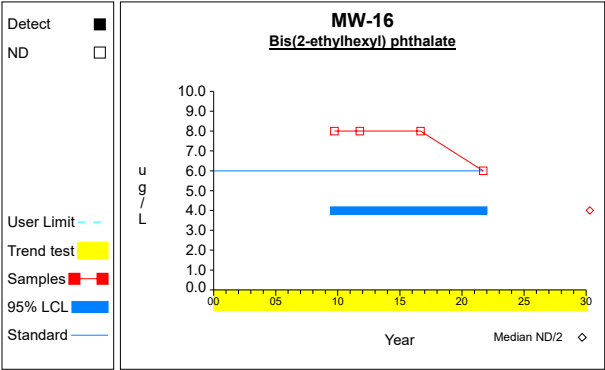
Graph 15



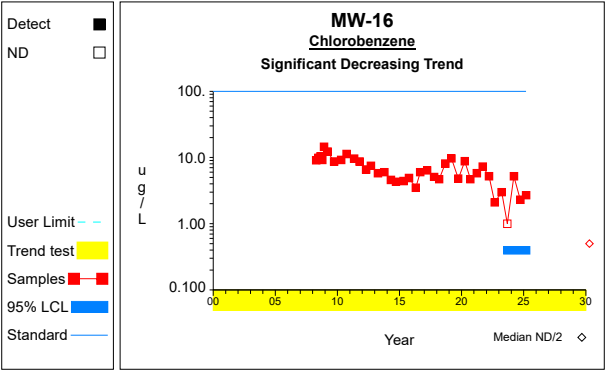
Graph 16



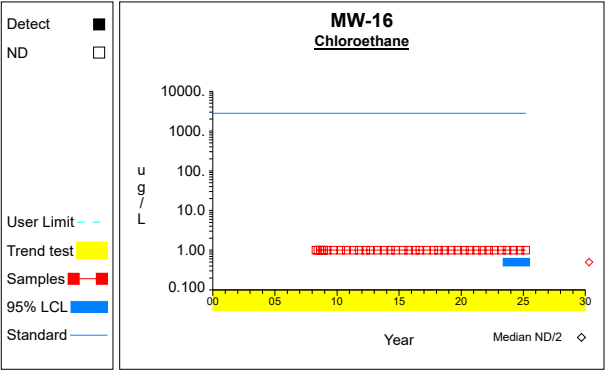
Graph 17



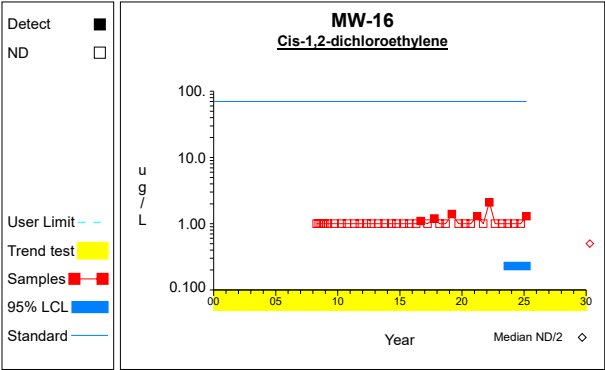
Graph 18



Graph 19

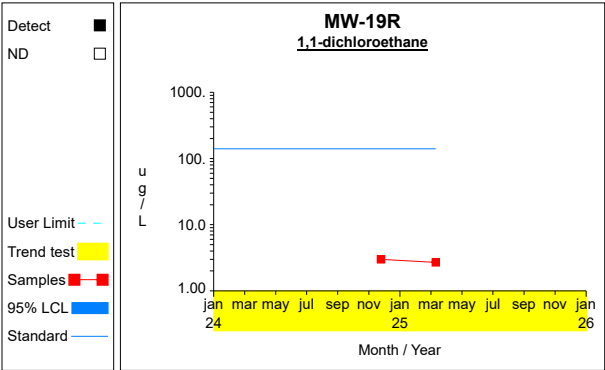


Graph 20

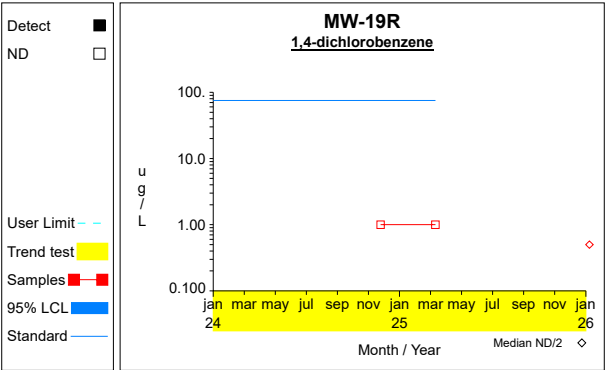


Graph 21

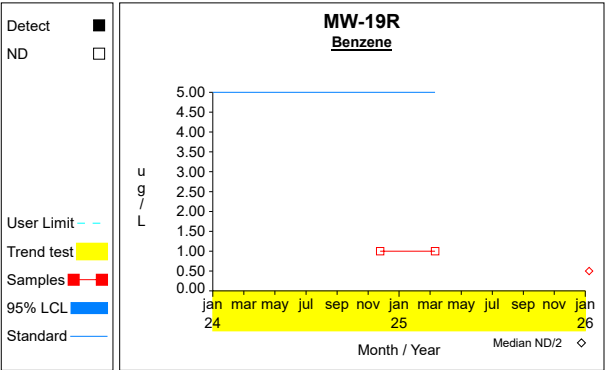
Confidence Limits (Assessment)



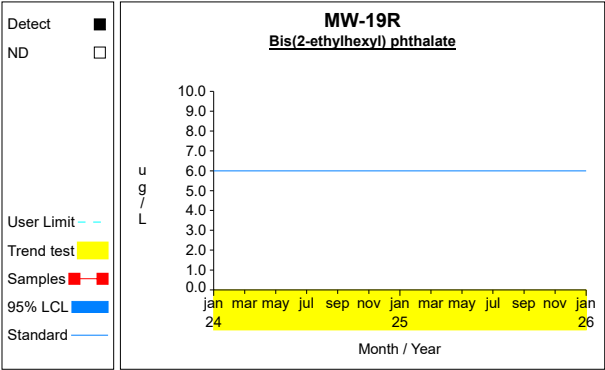
Graph 22



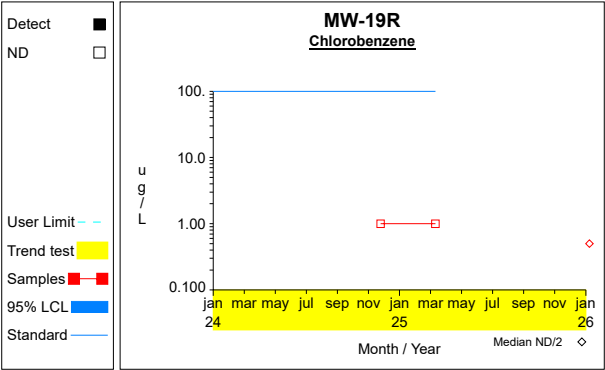
Graph 23



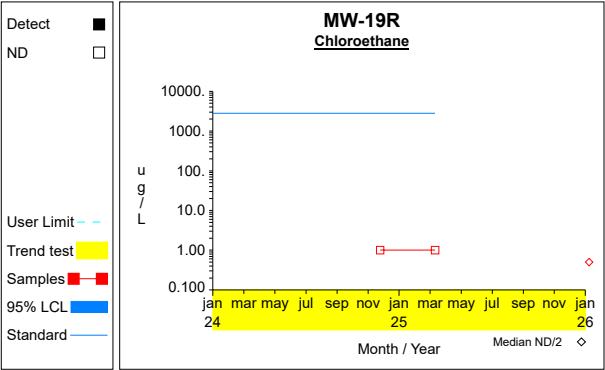
Graph 24



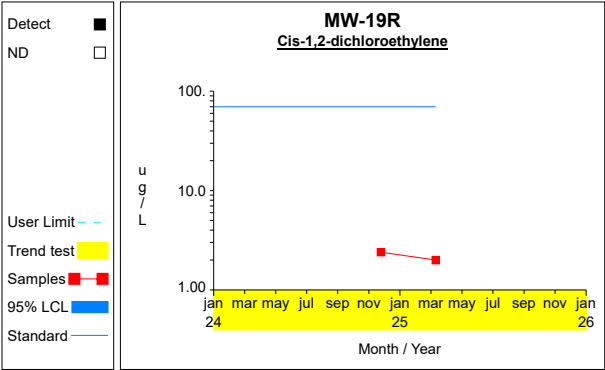
Graph 25



Graph 26

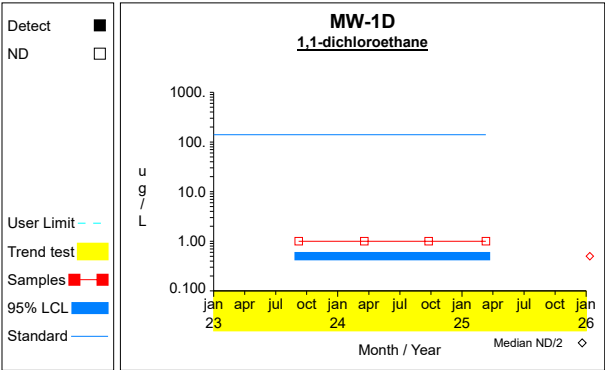


Graph 27

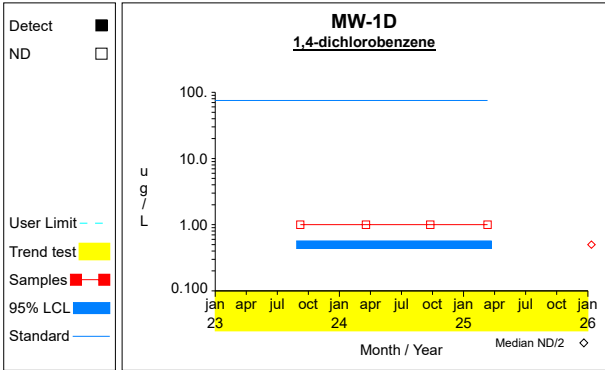


Graph 28

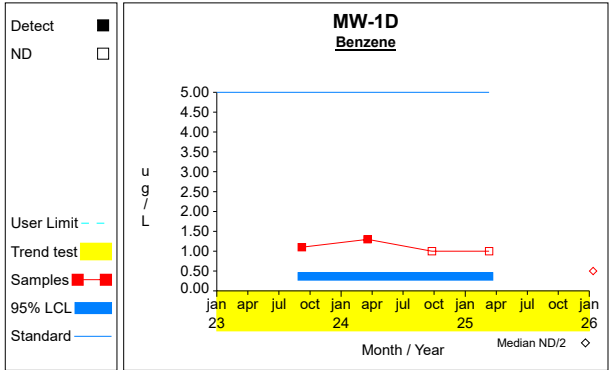
Confidence Limits (Assessment)



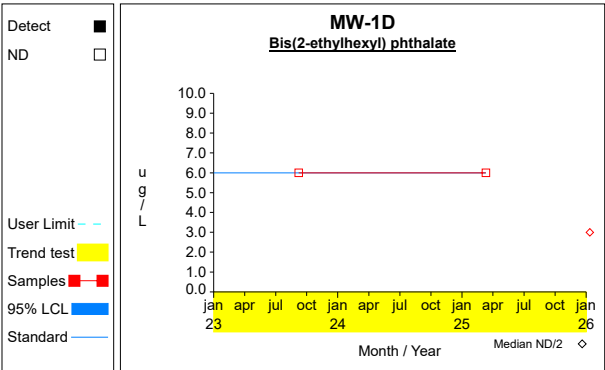
Graph 29



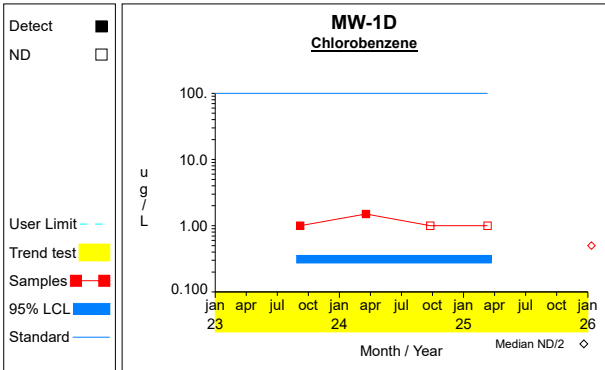
Graph 30



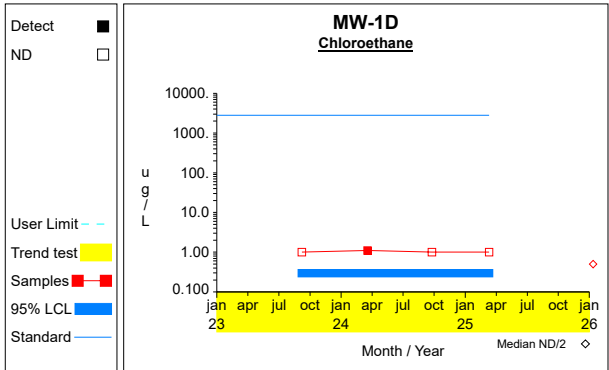
Graph 31



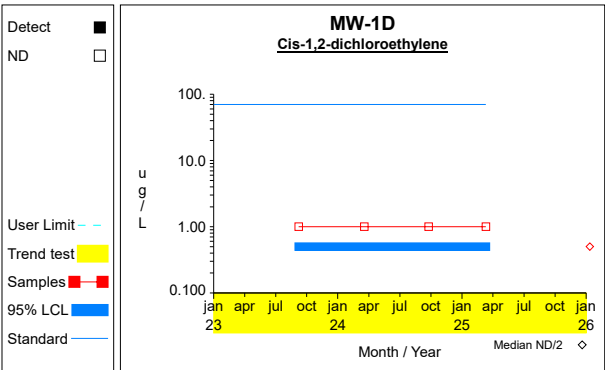
Graph 32



Graph 33

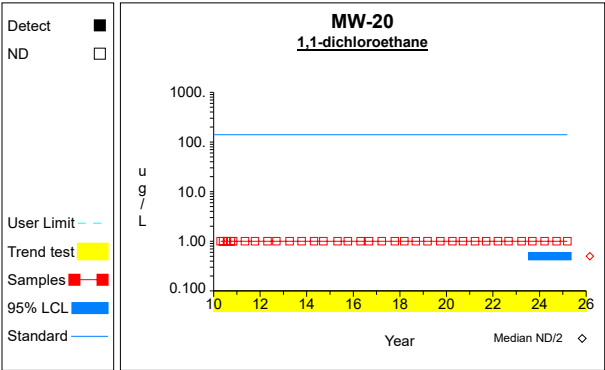


Graph 34

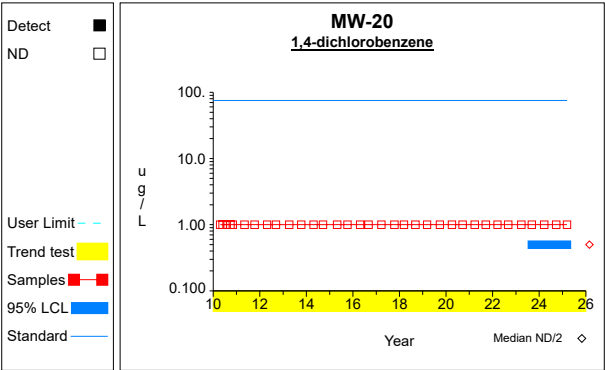


Graph 35

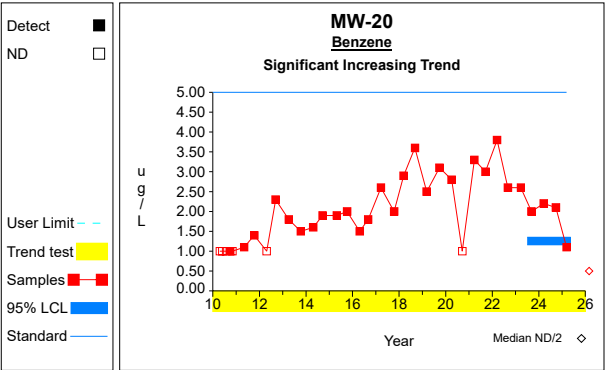
Confidence Limits (Assessment)



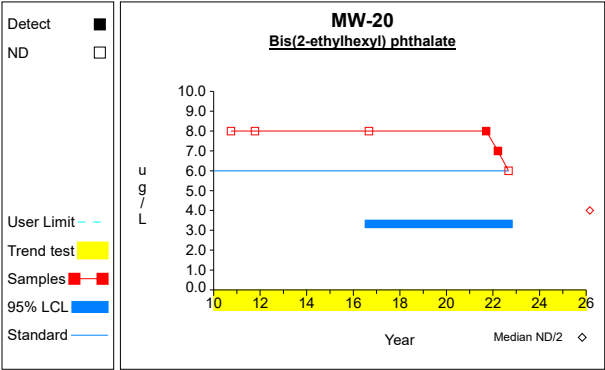
Graph 36



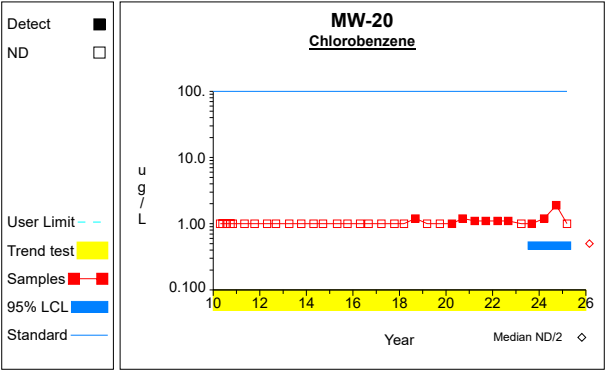
Graph 37



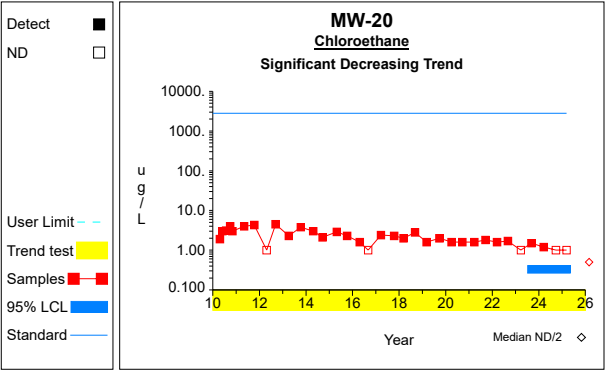
Graph 38



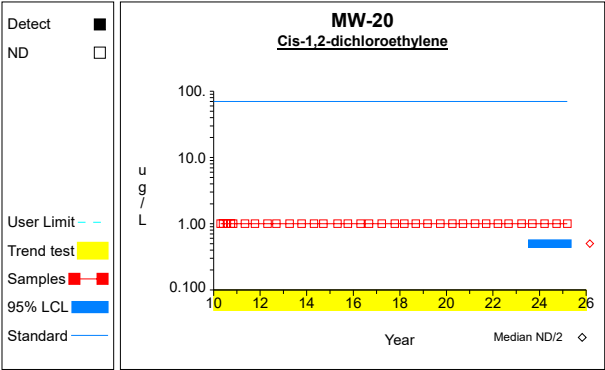
Graph 39



Graph 40



Graph 41



Graph 42

APPENDIX B.2 –2nd Statistical Evaluation

GROUND WATER STATISTICS
FOR THE
PAGE COUNTY SANITARY LANDFILL

Second Semi-Annual Monitoring Event in 2025

Prepared for:
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October 2025

INTRODUCTION

This report summarizes the results of the statistical analysis used to evaluate the ground water quality data obtained during the second semi-annual monitoring event in 2025 at the Page County Sanitary Landfill near Clarinda in Page County, Iowa. The statistical plan was designed to detect a release from the facility at the earliest indication so that it is protective of human health and the environment. Interwell statistics were used for comparison of the current data to background data at Page County Sanitary Landfill. The statistical plan conforms with IAC 567, Chapter 113.10, and the USEPA statistical guidance document (*“Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance”*, March 2009).

Ground Water Monitoring Program

The groundwater monitoring network for Page County Sanitary Landfill (PCSL) includes upgradient wells MW-1, MW-17, and MW-44 and downgradient wells MW-1D, MW-3, MW-7, MW-10, MW-11, MW-13, MW-14, MW-16, MW-18, MW-19R, MW-20, MW-53, GWD-1, GWD-3, and GWD-4. Each of the groundwater monitoring wells is to be sampled at least semiannually and analyzed for the detection monitoring parameters listed in 113.10(5), which includes 15 inorganic constituents and 47 organic compounds, summarized in Table 1 below.

Table 1: Detection monitoring constituents listed in Appendix I of IAC 567, Chapter 113.

Organic Compounds:

Acetone	<i>trans</i> -1,4-Dichloro-2-butene	Iodomethane
Acrylonitrile	1,1-Dichloroethane	4-Methyl-2-pentanone
Benzene	1,2-Dichloroethane	Styrene
Bromochloromethane	1,1-Dichloroethene	1,1,1,2-Tetrachloroethane
Bromodichloromethane	<i>cis</i> -1,2-Dichloroethene	1,1,2,2-Tetrachloroethane
Bromoform	<i>trans</i> -1,2-Dichloroethene	Tetrachloroethene
Carbon disulfide	1,2-Dichloropropane	Toluene
Carbon tetrachloride	<i>cis</i> -1,3-Dichloropropene	1,1,1-Trichloroethane
Chlorobenzene	<i>trans</i> -1,3-Dichloropropene	1,1,2-Trichloroethane
Chloroethane	Ethylbenzene	Trichloroethene
Chloroform	2-Hexanone	Trichlorofluoromethane
Dibromochloromethane	Bromomethane	1,2,3-Trichloropropane
1,2-Dibromo-3-chloropropane	Chloromethane	Vinyl acetate
1,2-Dibromoethane	Dibromomethane	Vinyl chloride
1,2-Dichlorobenzene	Methylene chloride	Xylenes (Total)
1,4-Dichlorobenzene	2-Butanone	

Inorganic constituents:

Antimony, Total	Chromium, Total	Selenium, Total
Arsenic, Total	Cobalt, Total	Silver, Total
Barium, Total	Copper, Total	Thallium, Total
Beryllium, Total	Lead, Total	Vanadium, Total
Cadmium, Total	Nickel, Total	Zinc, Total

The ground water data obtained during the second semi-annual monitoring events in 2025 are summarized in Attachment A.

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

IAC 567, Chapter 113.10(4) provides several options for statistically evaluating the ground water data at those wells that monitor the open cells or contiguous MSWLF units. The preferred methods for comparing ground water data are using either prediction limits or using control charts. The interwell method was applied to the Page County Landfill data using the DUMPStat® statistical program. DUMPStat® is a program for the statistical analysis of groundwater monitoring data using methods described in “Statistical Methods for Groundwater Monitoring” by Dr. Robert D. Gibbons. DUMPStat is completely consistent with all USEPA regulations and guidance and the ASTM D6312-98 guidance.

Ground water statistics are to be done on the inorganic constituents listed. The organic constituents are compared to maximum contaminant levels (MCLs) or practical quantitation limits (PQLs), in lieu of statistical comparisons to historical concentrations.

Interwell Statistics: Upgradient versus Downgradient Comparisons

Interwell statistics are appropriate when the upgradient and downgradient wells monitor the same ground water formation and there is similar variability in the upgradient and downgradient zones. Site prediction limits are determined by pooling the historical ground water data from hydraulically upgradient wells. This statistical method compares the current downgradient determinations to site prediction limits and checks for exceedances. The type of prediction limit utilized (e.g., parametric or nonparametric) is based on the detection frequency and the data distribution of each parameter in the background data. The distribution of the background data is tested for normality using the Shapiro-Wilk test (Gibbons, 1994 and USEPA 1992). If the constituent is normally distributed, a normal prediction limit is used. If normality is rejected by the Shapiro-Wilk test, the background data is transformed by taking the natural logarithm. The Shapiro-Wilk test is then reapplied on the transformed data. If it is not rejected, lognormal prediction limits are used. If after transforming the data, normality is still rejected, nonparametric prediction limits are used for that analyte. The nonparametric prediction limit is the largest determination in the background measurements. For constituents where the background detection frequency is greater than 0% but less than 50%, nonparametric prediction limits can be used. If the detection frequency is 0% after thirteen samples have been collected, the practical quantitation limit (PQL) becomes the nonparametric prediction limit.

Results of the Interwell Statistics

The background data used in this statistical analysis includes the ground water data collected from ground water wells MW-1, MW-17, and MW-44 during the period from September 2014, when the sampling protocol changed, through the current data. Monitoring well MW-44 was recently added as an upgradient sample point. A summary of the background data from monitoring wells MW-1, MW-17, and MW-44, used to determine the site prediction limits, is listed in Attachment B, Table 1 “Upgradient Data”. This statistical method compares the current downgradient determinations to site prediction limits and checks for exceedances.

Table 2 “Most Current Downgradient Monitoring Data”, summarizes the current data from downgradient wells GWD-1, GWD-3, GWD-4, MW-10, MW-13, MW-14, MW-16, MW-18, MW-19R, MW-1D, MW-

20, MW-3, MW-53, and MW-7 compared to the site prediction limits. Prediction limit exceedances are flagged with asterisks. For the most current data, the site prediction limit exceedances detected are summarized in the table below.

Trace Metal Prediction Limit Exceedances during the Second Semi-Annual Monitoring Event in 2025

Well	Trace Metal Detected	Result, µg/L	Prediction Limit, µg/L	Prediction Limit Type	Verified/ Awaiting verification
GWD-3	Zinc	370	69.2000	Nonparametric	Verified
GWD-4	Zinc	128	69.2000	Nonparametric	Awaiting verification
MW-14	Cadmium	6.8	1.4000	Nonparametric	Awaiting verification
MW-16	Arsenic	45.8	5.6000	Nonparametric	Verified
	Barium	1110	735.5741	Normal	Awaiting verification
MW-18	Arsenic	40.3	5.6000	Nonparametric	Verified
MW-20	Arsenic	59.7	5.6000	Nonparametric	Verified
	Barium	1860	735.5741	Normal	Verified
MW-7	Arsenic	8.4	5.6000	Nonparametric	Verified

The detection frequencies of the parameters in the up and down gradient monitoring wells are summarized in Table 3. Table 4 summarizes the results of the Shapiro-Wilk test. Table 5 is a summary of the statistics and prediction limits determined for the metals. Time series graphs of each of the parameters at each well with the corresponding prediction limits are attached.

A statistical power curve indicates the expected false assessments for the site as a whole. The false positive rate for interwell analyses is the percentage of failures when the upgradient versus downgradient true mean difference equals zero. False negative rate indicates the chance of missing contamination at a single well for a single constituent. The statistical power is a function of the number of wells included, the number of constituents compared, the detection frequencies, and the data distributions involved. For interwell analysis, the site-wide false positive rate is 3% and the test becomes sensitive to 4 standard deviation unit increases over background.

The past and current metals exceedances were evaluated against the ground water protection standards (GWPS) using confidence limits calculated in accordance with the Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance, USEPA, March 2009 (Attachment C). The analysis was conducted to evaluate whether verified concentrations are significantly above the water quality standard. The 95% lower confidence limit (LCL) for the mean of the historical data was used to evaluate whether the regulated unit is in compliance with the ground-water protection standards under 40 CFR 264 (e.g. whether the verified constituent is detected at a significant level above the GWPS). An exceedance is verified if the LCL is above the Regulatory GWPS.

The 95% LCL for arsenic at MW-16 (15.705 µg/L) exceeds the USEPA MCL of 10 µg/L.

The 95% LCL for arsenic at MW-18 (24.096 µg/L) exceeds the USEPA MCL of 10 µg/L.

The 95% LCL for arsenic at MW-20 (32.079 µg/L) exceeds the USEPA MCL of 10 µg/L.

The 95% LCL for cobalt at MW-20 (3.320 µg/L) exceeds the Iowa Statewide Standard of 2.1 µg/L, though the current concentration (3.0 µg/L) is below the site prediction limit of 30.6 µg/L.

The 95% LCL for cobalt at MW-7 (8.290 µg/L) exceeds the Iowa Statewide Standard of 2.1 µg/L, though the current concentration (9.2 µg/L) is below the site prediction limit of 30.6 µg/L.

The remainder of the calculated 95% LCLs are below the respective GWPS.

Volatile Organic Compounds

Volatile Organic Compounds (VOCs) are generally man-made compounds not present in ambient ground water. If VOCs are detected above their statistical limit (i.e., the laboratory PQL or reporting limit), a verification resample will be conducted at the next scheduled sampling event. A statistical exceedance will be indicated if the VOC detection is confirmed by the subsequent monitoring.

The 47 volatile organic compounds (VOCs) included in Appendix A were compared to site-specific limits in lieu of statistical comparisons. VOCs detected in the ground water at Page County Sanitary Landfill during the second semi-annual monitoring event in 2025 are summarized in the table below.

VOCs detected at Page County Landfill during the second semi-annual monitoring event in 2025

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting Verification	Groundwater Standard, µg/L
MW-16	1,4-Dichlorobenzene	1.5	1	Verified	75 ^a
	Chlorobenzene	4.3	1	Verified	100 ^a
MW-19R	1,1-Dichloroethane	2.7	1	Verified	140 ^b
	cis-1,2-Dichloroethene	2.4	1	Verified	70 ^a
MW-20	Benzene	1.2	1	Verified	5 ^a
	Chlorobenzene	1.0	1	Awaiting verification	100 ^a

a - USEPA MCL

b – Iowa Statewide Standard

The VOCs detected are typically associated with landfill gas migration. The detections are low-level and do not exceed ground water quality standards. Historical VOC detections in the ground water are summarized in Attachment D. The verified VOC detections were evaluated against the GWPS using confidence limits. The results are shown in Attachment E. The 95% LCLs for each of the verified VOC detections are below ground water quality standards.

Attachment A

Summary of the Data obtained during the Second Semi-Annual Monitoring event in 2025

Table 1

Analytical Data Summary for 9/8/2025

Constituents	Units	GWD-1	GWD-3	GWD-4	MW-10	MW-13	MW-14	MW-16	MW-17	MW-18	MW-19R	MW-1D
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.7	<1.0
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0
2-butanone (mek)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic, total	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	45.8	<2.0	40.3	<2.0	<2.0
Barium, total	ug/L	253.0	306.0	353.0	402.0	51.9	124.0	1110.0	84.1	539.0	226.0	657.0
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium, total	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.2	<.2	<.2	.2	<.2	6.8	<.2	.3	.2	.2	<.2
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.3	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<1.0	<1.0	2.5	1.1	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	1.2
Cis-1,2-dichloroethylene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	<1.0
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<.5	<.5	.7	.8	<.5	<.5	1.9	<.5	1.2	.7	5.7
Copper, total	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	<5.0	<5.0	7.7	6.7	<5.0	5.0	39.0	<5.0	5.7	5.7	16.6
Selenium, total	ug/L	<2.0	<2.0	<2.0	<2.0	2.3	<2.0	3.0	2.7	<2.0	<2.0	<2.0
Silver, total	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<2	<2	3	<2	<2	<2	<2	<2	<2	<2	<2
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<5.0	370.0	128.0	5.8	9.3	8.4	<5.0	7.3	14.8	10.1	13.8

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 9/8/2025

Constituents	MW-20	MW-3	MW-44	MW-53	MW-7
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1
1,1-dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethylene	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone (mek)	<10	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5
Antimony, total	<1	<1	<1	<1	<1
Arsenic, total	59.7	<2.0	<2.0	<2.0	8.4
Barium, total	1860.0	283.0	126.0	89.5	313.0
Benzene	1.2	<1.0	<1.0	<1.0	<1.0
Beryllium, total	<.5	<.5	<.5	<.5	<.5
Bromochloromethane	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1
Cadmium, total	<.2	<.2	<.2	<.2	<.2
Carbon disulfide	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1
Chlorobenzene	1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1
Chromium, total	<1.0	3.7	1.8	1.4	<1.0
Cis-1,2-dichloroethylene	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1
Cobalt, total	3.0	<.5	<.5	<.5	9.2
Copper, total	<5	<5	<5	<5	<5
Dibromochloromethane	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1
Lead, total	<1	<1	<1	<1	<1
Methyl iodide	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5
Nickel, total	10.4	<5.0	<5.0	<5.0	19.3
Selenium, total	<2.0	3.8	<2.0	<2.0	<2.0
Silver, total	<5	<5	<5	<5	<5
Styrene	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1
Thallium, total	<.5	<.5	<.5	<.5	<.5
Toluene	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1
Vanadium, total	<2	<2	<2	<2	<2
Vinyl acetate	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2
Zinc, total	7.0	5.8	5.8	6.3	11.4

* - The displayed value is the arithmetic mean of multiple database matches.

Attachment B

Summary Tables and Graphs for the Interwell Comparisons

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW-1	09/17/2014	ND	2.0000		
Antimony, total	ug/L	MW-1	04/28/2015	ND	2.0000		
Antimony, total	ug/L	MW-1	10/06/2015	ND	2.0000		
Antimony, total	ug/L	MW-1	04/23/2016	ND	2.0000		
Antimony, total	ug/L	MW-1	09/01/2016	ND	2.0000		
Antimony, total	ug/L	MW-1	03/21/2017	ND	2.0000		
Antimony, total	ug/L	MW-1	10/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-1	03/09/2018	ND	2.0000		
Antimony, total	ug/L	MW-1	09/06/2018	ND	2.0000		
Antimony, total	ug/L	MW-1	03/07/2019	ND	2.0000		
Antimony, total	ug/L	MW-1	09/26/2019	ND	2.0000		
Antimony, total	ug/L	MW-1	04/02/2020	ND	2.0000		
Antimony, total	ug/L	MW-1	09/17/2020	ND	2.0000		
Antimony, total	ug/L	MW-1	03/25/2021	ND	2.0000		
Antimony, total	ug/L	MW-1	09/16/2021	ND	2.0000		
Antimony, total	ug/L	MW-1	03/16/2022	ND	2.0000		
Antimony, total	ug/L	MW-1	09/01/2022	ND	2.0000		
Antimony, total	ug/L	MW-1	03/24/2023	ND	2.0000		
Arsenic, total	ug/L	MW-1	09/17/2014		5.6000		
Arsenic, total	ug/L	MW-1	04/28/2015	ND	4.0000		
Arsenic, total	ug/L	MW-1	10/06/2015	ND	4.0000		
Arsenic, total	ug/L	MW-1	04/23/2016	ND	4.0000		
Arsenic, total	ug/L	MW-1	09/01/2016	ND	4.0000		
Arsenic, total	ug/L	MW-1	03/21/2017	ND	4.0000		
Arsenic, total	ug/L	MW-1	10/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-1	03/09/2018	ND	4.0000		
Arsenic, total	ug/L	MW-1	09/06/2018	ND	4.0000		
Arsenic, total	ug/L	MW-1	03/07/2019	ND	4.0000		
Arsenic, total	ug/L	MW-1	09/26/2019	ND	4.0000		
Arsenic, total	ug/L	MW-1	04/02/2020	ND	4.0000		
Arsenic, total	ug/L	MW-1	09/17/2020	ND	4.0000		
Arsenic, total	ug/L	MW-1	03/25/2021	ND	4.0000		
Arsenic, total	ug/L	MW-1	09/16/2021	ND	4.0000		
Arsenic, total	ug/L	MW-1	03/16/2022	ND	4.0000		
Arsenic, total	ug/L	MW-1	09/01/2022	ND	4.0000		
Arsenic, total	ug/L	MW-1	03/24/2023	ND	4.0000		
Barium, total	ug/L	MW-1	09/17/2014		684.0000		
Barium, total	ug/L	MW-1	04/28/2015		456.0000		
Barium, total	ug/L	MW-1	10/06/2015		279.0000		
Barium, total	ug/L	MW-1	04/23/2016		306.0000		
Barium, total	ug/L	MW-1	09/01/2016		283.0000		
Barium, total	ug/L	MW-1	03/21/2017		310.0000		
Barium, total	ug/L	MW-1	10/13/2017		455.0000		
Barium, total	ug/L	MW-1	03/09/2018		484.0000		
Barium, total	ug/L	MW-1	09/06/2018		361.0000		
Barium, total	ug/L	MW-1	03/07/2019		493.0000		
Barium, total	ug/L	MW-1	09/26/2019		405.0000		
Barium, total	ug/L	MW-1	04/02/2020		452.0000		
Barium, total	ug/L	MW-1	09/17/2020		492.0000		
Barium, total	ug/L	MW-1	03/25/2021		715.0000		
Barium, total	ug/L	MW-1	09/16/2021		467.0000		
Barium, total	ug/L	MW-1	03/16/2022		642.0000		
Barium, total	ug/L	MW-1	09/01/2022		580.0000		
Barium, total	ug/L	MW-1	03/24/2023		657.0000		
Beryllium, total	ug/L	MW-1	09/17/2014	ND	4.0000		
Beryllium, total	ug/L	MW-1	04/28/2015	ND	4.0000		
Beryllium, total	ug/L	MW-1	10/06/2015	ND	4.0000		
Beryllium, total	ug/L	MW-1	04/23/2016	ND	4.0000		
Beryllium, total	ug/L	MW-1	09/01/2016	ND	4.0000		
Beryllium, total	ug/L	MW-1	03/21/2017	ND	4.0000		
Beryllium, total	ug/L	MW-1	10/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-1	03/09/2018	ND	4.0000		
Beryllium, total	ug/L	MW-1	09/06/2018	ND	4.0000		
Beryllium, total	ug/L	MW-1	03/07/2019	ND	4.0000		
Beryllium, total	ug/L	MW-1	09/26/2019	ND	4.0000		
Beryllium, total	ug/L	MW-1	04/02/2020	ND	4.0000		
Beryllium, total	ug/L	MW-1	09/17/2020	ND	4.0000		
Beryllium, total	ug/L	MW-1	03/25/2021	ND	4.0000		
Beryllium, total	ug/L	MW-1	09/16/2021	ND	4.0000		
Beryllium, total	ug/L	MW-1	03/16/2022	ND	4.0000		
Beryllium, total	ug/L	MW-1	09/01/2022	ND	4.0000		
Beryllium, total	ug/L	MW-1	03/24/2023	ND	4.0000		
Cadmium, total	ug/L	MW-1	09/17/2014	ND	0.8000		
Cadmium, total	ug/L	MW-1	04/28/2015	ND	0.8000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW-1	10/06/2015		0.8000		
Cadmium, total	ug/L	MW-1	04/23/2016	ND	0.8000		
Cadmium, total	ug/L	MW-1	09/01/2016	ND	0.8000		
Cadmium, total	ug/L	MW-1	03/21/2017	ND	0.8000		
Cadmium, total	ug/L	MW-1	10/13/2017	ND	0.8000		
Cadmium, total	ug/L	MW-1	03/09/2018	ND	0.8000		
Cadmium, total	ug/L	MW-1	09/06/2018	ND	0.8000		
Cadmium, total	ug/L	MW-1	03/07/2019	ND	0.8000		
Cadmium, total	ug/L	MW-1	09/26/2019	ND	0.8000		
Cadmium, total	ug/L	MW-1	04/02/2020	ND	0.8000		
Cadmium, total	ug/L	MW-1	09/17/2020	ND	0.8000		
Cadmium, total	ug/L	MW-1	03/25/2021	ND	0.8000		
Cadmium, total	ug/L	MW-1	09/16/2021	ND	0.8000		
Cadmium, total	ug/L	MW-1	03/16/2022	ND	0.8000		
Cadmium, total	ug/L	MW-1	09/01/2022	ND	0.8000		
Cadmium, total	ug/L	MW-1	03/24/2023	ND	0.8000		
Chromium, total	ug/L	MW-1	09/17/2014		8.9000		
Chromium, total	ug/L	MW-1	04/28/2015	ND	8.0000		
Chromium, total	ug/L	MW-1	10/06/2015	ND	8.0000		
Chromium, total	ug/L	MW-1	04/23/2016	ND	8.0000		
Chromium, total	ug/L	MW-1	09/01/2016	ND	8.0000		
Chromium, total	ug/L	MW-1	03/21/2017	ND	8.0000		
Chromium, total	ug/L	MW-1	10/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-1	03/09/2018	ND	8.0000		
Chromium, total	ug/L	MW-1	09/06/2018	ND	8.0000		
Chromium, total	ug/L	MW-1	03/07/2019	ND	8.0000		
Chromium, total	ug/L	MW-1	09/26/2019	ND	8.0000		
Chromium, total	ug/L	MW-1	04/02/2020	ND	8.0000		
Chromium, total	ug/L	MW-1	09/17/2020	ND	8.0000		
Chromium, total	ug/L	MW-1	03/25/2021	ND	8.0000		
Chromium, total	ug/L	MW-1	09/16/2021	ND	8.0000		
Chromium, total	ug/L	MW-1	03/16/2022	ND	8.0000		
Chromium, total	ug/L	MW-1	09/01/2022	ND	8.0000		
Chromium, total	ug/L	MW-1	03/24/2023	ND	8.0000		
Cobalt, total	ug/L	MW-1	09/17/2014		30.6000		
Cobalt, total	ug/L	MW-1	04/28/2015		6.0000		
Cobalt, total	ug/L	MW-1	10/06/2015	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-1	04/23/2016	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-1	09/01/2016	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-1	03/21/2017	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-1	10/13/2017	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-1	03/09/2018		2.5000		
Cobalt, total	ug/L	MW-1	09/06/2018	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-1	03/07/2019		4.7000		
Cobalt, total	ug/L	MW-1	09/26/2019		11.2000		
Cobalt, total	ug/L	MW-1	04/02/2020		2.7000		
Cobalt, total	ug/L	MW-1	09/17/2020	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-1	03/25/2021		11.8000		
Cobalt, total	ug/L	MW-1	09/16/2021		0.4000		
Cobalt, total	ug/L	MW-1	03/16/2022		2.1000		
Cobalt, total	ug/L	MW-1	09/01/2022		9.4000		
Cobalt, total	ug/L	MW-1	03/24/2023		14.1000		
Copper, total	ug/L	MW-1	09/17/2014		11.6000		
Copper, total	ug/L	MW-1	04/28/2015	ND	4.0000		
Copper, total	ug/L	MW-1	10/06/2015	ND	4.0000		
Copper, total	ug/L	MW-1	04/23/2016	ND	4.0000		
Copper, total	ug/L	MW-1	09/01/2016	ND	4.0000		
Copper, total	ug/L	MW-1	03/21/2017	ND	4.0000		
Copper, total	ug/L	MW-1	10/13/2017	ND	4.0000		
Copper, total	ug/L	MW-1	03/09/2018	ND	4.0000		
Copper, total	ug/L	MW-1	09/06/2018	ND	4.0000		
Copper, total	ug/L	MW-1	03/07/2019	ND	4.0000		
Copper, total	ug/L	MW-1	09/26/2019	ND	4.0000		
Copper, total	ug/L	MW-1	04/02/2020	ND	4.0000		
Copper, total	ug/L	MW-1	09/17/2020	ND	4.0000		
Copper, total	ug/L	MW-1	03/25/2021	ND	4.0000		
Copper, total	ug/L	MW-1	09/16/2021	ND	4.0000		
Copper, total	ug/L	MW-1	03/16/2022	ND	4.0000		
Copper, total	ug/L	MW-1	09/01/2022	ND	4.0000		
Copper, total	ug/L	MW-1	03/24/2023	ND	4.0000		
Lead, total	ug/L	MW-1	09/17/2014		6.9000		
Lead, total	ug/L	MW-1	04/28/2015	ND	4.0000		
Lead, total	ug/L	MW-1	10/06/2015	ND	4.0000		
Lead, total	ug/L	MW-1	04/23/2016	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lead, total	ug/L	MW-1	09/01/2016	ND	4.0000		
Lead, total	ug/L	MW-1	03/21/2017	ND	4.0000		
Lead, total	ug/L	MW-1	10/13/2017	ND	4.0000		
Lead, total	ug/L	MW-1	03/09/2018	ND	4.0000		
Lead, total	ug/L	MW-1	09/06/2018		7.4000		
Lead, total	ug/L	MW-1	03/07/2019	ND	4.0000		
Lead, total	ug/L	MW-1	09/26/2019	ND	4.0000		
Lead, total	ug/L	MW-1	04/02/2020	ND	4.0000		
Lead, total	ug/L	MW-1	09/17/2020	ND	4.0000		
Lead, total	ug/L	MW-1	03/25/2021	ND	4.0000		
Lead, total	ug/L	MW-1	09/16/2021	ND	4.0000		
Lead, total	ug/L	MW-1	03/16/2022	ND	4.0000		
Lead, total	ug/L	MW-1	09/01/2022	ND	4.0000		
Lead, total	ug/L	MW-1	03/24/2023	ND	4.0000		
Nickel, total	ug/L	MW-1	09/17/2014		60.4000		
Nickel, total	ug/L	MW-1	04/28/2015		20.6000		
Nickel, total	ug/L	MW-1	10/06/2015		10.6000		
Nickel, total	ug/L	MW-1	04/23/2016	ND	4.0000		
Nickel, total	ug/L	MW-1	09/01/2016	ND	4.0000		
Nickel, total	ug/L	MW-1	03/21/2017	ND	4.0000		
Nickel, total	ug/L	MW-1	10/13/2017		13.3000		
Nickel, total	ug/L	MW-1	03/09/2018		20.1000		
Nickel, total	ug/L	MW-1	09/06/2018	ND	4.0000		
Nickel, total	ug/L	MW-1	03/07/2019		16.7000		
Nickel, total	ug/L	MW-1	09/26/2019		9.1000		
Nickel, total	ug/L	MW-1	04/02/2020		5.1000		
Nickel, total	ug/L	MW-1	09/17/2020	ND	4.0000		
Nickel, total	ug/L	MW-1	03/25/2021		28.1000		
Nickel, total	ug/L	MW-1	09/16/2021	ND	4.0000		
Nickel, total	ug/L	MW-1	03/16/2022		15.5000		
Nickel, total	ug/L	MW-1	09/01/2022		12.6000		
Nickel, total	ug/L	MW-1	03/24/2023		21.5000		
Selenium, total	ug/L	MW-1	09/17/2014	ND	4.0000		
Selenium, total	ug/L	MW-1	04/28/2015	ND	4.0000		
Selenium, total	ug/L	MW-1	10/06/2015	ND	4.0000		
Selenium, total	ug/L	MW-1	04/23/2016	ND	4.0000		
Selenium, total	ug/L	MW-1	09/01/2016	ND	4.0000		
Selenium, total	ug/L	MW-1	03/21/2017	ND	4.0000		
Selenium, total	ug/L	MW-1	10/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-1	03/09/2018	ND	4.0000		
Selenium, total	ug/L	MW-1	09/06/2018	ND	4.0000		
Selenium, total	ug/L	MW-1	03/07/2019	ND	4.0000		
Selenium, total	ug/L	MW-1	09/26/2019	ND	4.0000		
Selenium, total	ug/L	MW-1	04/02/2020	ND	4.0000		
Selenium, total	ug/L	MW-1	09/17/2020	ND	4.0000		
Selenium, total	ug/L	MW-1	03/25/2021	ND	4.0000		
Selenium, total	ug/L	MW-1	09/16/2021	ND	4.0000		
Selenium, total	ug/L	MW-1	03/16/2022	ND	4.0000		
Selenium, total	ug/L	MW-1	09/01/2022	ND	4.0000		
Selenium, total	ug/L	MW-1	03/24/2023	ND	4.0000		
Silver, total	ug/L	MW-1	09/17/2014	ND	4.0000		
Silver, total	ug/L	MW-1	04/28/2015	ND	4.0000		
Silver, total	ug/L	MW-1	10/06/2015	ND	4.0000		
Silver, total	ug/L	MW-1	04/23/2016	ND	4.0000		
Silver, total	ug/L	MW-1	09/01/2016	ND	4.0000		
Silver, total	ug/L	MW-1	03/21/2017	ND	4.0000		
Silver, total	ug/L	MW-1	10/13/2017	ND	4.0000		
Silver, total	ug/L	MW-1	03/09/2018	ND	4.0000		
Silver, total	ug/L	MW-1	09/06/2018	ND	8.0000	4.0000	**
Silver, total	ug/L	MW-1	03/07/2019	ND	4.0000		
Silver, total	ug/L	MW-1	09/26/2019	ND	4.0000		
Silver, total	ug/L	MW-1	04/02/2020	ND	4.0000		
Silver, total	ug/L	MW-1	09/17/2020	ND	4.0000		
Silver, total	ug/L	MW-1	03/25/2021	ND	4.0000		
Silver, total	ug/L	MW-1	09/16/2021	ND	4.0000		
Silver, total	ug/L	MW-1	03/16/2022	ND	4.0000		
Silver, total	ug/L	MW-1	09/01/2022	ND	4.0000		
Silver, total	ug/L	MW-1	03/24/2023	ND	4.0000		
Thallium, total	ug/L	MW-1	09/17/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	04/28/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	10/06/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	04/23/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	09/01/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	03/21/2017	ND	4.0000	2.0000	**

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Thallium, total	ug/L	MW-1	10/13/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	03/09/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	09/06/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	03/07/2019	ND	2.0000		
Thallium, total	ug/L	MW-1	09/26/2019	ND	2.0000		
Thallium, total	ug/L	MW-1	04/02/2020	ND	2.0000		
Thallium, total	ug/L	MW-1	09/17/2020	ND	2.0000		
Thallium, total	ug/L	MW-1	03/25/2021	ND	2.0000		
Thallium, total	ug/L	MW-1	09/16/2021	ND	2.0000		
Thallium, total	ug/L	MW-1	03/16/2022	ND	2.0000		
Thallium, total	ug/L	MW-1	09/01/2022	ND	2.0000		
Thallium, total	ug/L	MW-1	03/24/2023	ND	2.0000		
Vanadium, total	ug/L	MW-1	09/17/2014	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/28/2015	ND	20.0000		
Vanadium, total	ug/L	MW-1	10/06/2015	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/23/2016	ND	20.0000		
Vanadium, total	ug/L	MW-1	09/01/2016	ND	20.0000		
Vanadium, total	ug/L	MW-1	03/21/2017	ND	20.0000		
Vanadium, total	ug/L	MW-1	10/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-1	03/09/2018	ND	20.0000		
Vanadium, total	ug/L	MW-1	09/06/2018	ND	20.0000		
Vanadium, total	ug/L	MW-1	03/07/2019	ND	20.0000		
Vanadium, total	ug/L	MW-1	09/26/2019	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/02/2020	ND	20.0000		
Vanadium, total	ug/L	MW-1	09/17/2020	ND	20.0000		
Vanadium, total	ug/L	MW-1	03/25/2021	ND	20.0000		
Vanadium, total	ug/L	MW-1	09/16/2021	ND	20.0000		
Vanadium, total	ug/L	MW-1	03/16/2022	ND	20.0000		
Vanadium, total	ug/L	MW-1	09/01/2022	ND	20.0000		
Vanadium, total	ug/L	MW-1	03/24/2023	ND	20.0000		
Zinc, total	ug/L	MW-1	09/17/2014		32.0000		
Zinc, total	ug/L	MW-1	04/28/2015		12.3000		
Zinc, total	ug/L	MW-1	10/06/2015		8.8000		
Zinc, total	ug/L	MW-1	04/23/2016	ND	20.0000		
Zinc, total	ug/L	MW-1	09/01/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	03/21/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	10/13/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	03/09/2018		11.5000		
Zinc, total	ug/L	MW-1	09/06/2018		15.6000		
Zinc, total	ug/L	MW-1	03/07/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	09/26/2019		27.7000		
Zinc, total	ug/L	MW-1	04/02/2020	ND	20.0000		
Zinc, total	ug/L	MW-1	09/17/2020	ND	20.0000		
Zinc, total	ug/L	MW-1	03/25/2021	ND	20.0000		
Zinc, total	ug/L	MW-1	09/16/2021	ND	20.0000		
Zinc, total	ug/L	MW-1	03/16/2022	ND	20.0000		
Zinc, total	ug/L	MW-1	09/01/2022	ND	20.0000		
Zinc, total	ug/L	MW-1	03/24/2023	ND	20.0000		
Antimony, total	ug/L	MW-17	09/18/2014	ND	2.0000		
Antimony, total	ug/L	MW-17	04/28/2015	ND	2.0000		
Antimony, total	ug/L	MW-17	10/06/2015	ND	2.0000		
Antimony, total	ug/L	MW-17	04/23/2016	ND	2.0000		
Antimony, total	ug/L	MW-17	09/01/2016	ND	2.0000		
Antimony, total	ug/L	MW-17	03/21/2017	ND	2.0000		
Antimony, total	ug/L	MW-17	10/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-17	03/09/2018	ND	2.0000		
Antimony, total	ug/L	MW-17	09/06/2018	ND	2.0000		
Antimony, total	ug/L	MW-17	03/07/2019	ND	2.0000		
Antimony, total	ug/L	MW-17	09/26/2019	ND	2.0000		
Antimony, total	ug/L	MW-17	04/02/2020	ND	2.0000		
Antimony, total	ug/L	MW-17	09/17/2020	ND	2.0000		
Antimony, total	ug/L	MW-17	03/25/2021	ND	2.0000		
Antimony, total	ug/L	MW-17	09/16/2021	ND	2.0000		
Antimony, total	ug/L	MW-17	03/16/2022	ND	2.0000		
Antimony, total	ug/L	MW-17	09/01/2022	ND	2.0000		
Antimony, total	ug/L	MW-17	03/24/2023	ND	2.0000		
Antimony, total	ug/L	MW-17	09/07/2023	ND	2.0000		
Antimony, total	ug/L	MW-17	03/18/2024	ND	2.0000		
Antimony, total	ug/L	MW-17	09/25/2024	ND	2.0000		
Antimony, total	ug/L	MW-17	03/10/2025	ND	2.0000		
Antimony, total	ug/L	MW-17	09/08/2025	ND	1.0000	2.0000	**
Arsenic, total	ug/L	MW-17	09/18/2014	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/28/2015	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/06/2015	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Arsenic, total	ug/L	MW-17	04/23/2016	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/01/2016	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/21/2017	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/09/2018	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/06/2018	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/07/2019	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/26/2019	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/02/2020	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/17/2020	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/25/2021	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/16/2021	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/16/2022	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/01/2022	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/24/2023	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/07/2023	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/18/2024	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/25/2024	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/10/2025	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/08/2025	ND	2.0000	4.0000	**
Barium, total	ug/L	MW-17	09/18/2014		91.4000		
Barium, total	ug/L	MW-17	04/28/2015		106.0000		
Barium, total	ug/L	MW-17	10/06/2015		85.3000		
Barium, total	ug/L	MW-17	04/23/2016		99.2000		
Barium, total	ug/L	MW-17	09/01/2016		88.5000		
Barium, total	ug/L	MW-17	03/21/2017		93.7000		
Barium, total	ug/L	MW-17	10/13/2017		89.5000		
Barium, total	ug/L	MW-17	03/09/2018		86.5000		
Barium, total	ug/L	MW-17	09/06/2018		83.2000		
Barium, total	ug/L	MW-17	03/07/2019		99.9000		
Barium, total	ug/L	MW-17	09/26/2019		95.8000		
Barium, total	ug/L	MW-17	04/02/2020		102.0000		
Barium, total	ug/L	MW-17	09/17/2020		94.6000		
Barium, total	ug/L	MW-17	03/25/2021		92.2000		
Barium, total	ug/L	MW-17	09/16/2021		89.6000		
Barium, total	ug/L	MW-17	03/16/2022		89.9000		
Barium, total	ug/L	MW-17	09/01/2022		90.3000		
Barium, total	ug/L	MW-17	03/24/2023		84.3000		
Barium, total	ug/L	MW-17	09/07/2023		92.4000		
Barium, total	ug/L	MW-17	03/18/2024		96.4000		
Barium, total	ug/L	MW-17	09/25/2024		90.1000		
Barium, total	ug/L	MW-17	03/10/2025		84.7000		
Barium, total	ug/L	MW-17	09/08/2025		84.1000		
Beryllium, total	ug/L	MW-17	09/18/2014	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/28/2015	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/06/2015	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/23/2016	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/01/2016	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/21/2017	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/09/2018	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/06/2018	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/07/2019	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/26/2019	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/02/2020	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/17/2020	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/25/2021	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/16/2021	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/16/2022	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/01/2022	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/24/2023	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/07/2023	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/18/2024	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/25/2024	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/10/2025	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/08/2025	ND	0.5000		*
Cadmium, total	ug/L	MW-17	09/18/2014	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/28/2015	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/06/2015	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/23/2016	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/01/2016	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/21/2017	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/13/2017		1.4000		
Cadmium, total	ug/L	MW-17	03/09/2018	ND	0.8000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW-17	09/06/2018	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/07/2019	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/26/2019	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/02/2020	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/17/2020	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/25/2021	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/16/2021	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/16/2022	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/01/2022	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/24/2023	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/07/2023	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/18/2024		0.8000		
Cadmium, total	ug/L	MW-17	09/25/2024	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/10/2025	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/08/2025		0.3000		
Chromium, total	ug/L	MW-17	09/18/2014	ND	8.0000		
Chromium, total	ug/L	MW-17	04/28/2015	ND	8.0000		
Chromium, total	ug/L	MW-17	10/06/2015	ND	8.0000		
Chromium, total	ug/L	MW-17	04/23/2016	ND	8.0000		
Chromium, total	ug/L	MW-17	09/01/2016	ND	8.0000		
Chromium, total	ug/L	MW-17	03/21/2017	ND	8.0000		
Chromium, total	ug/L	MW-17	10/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-17	03/09/2018	ND	8.0000		
Chromium, total	ug/L	MW-17	09/06/2018	ND	8.0000		
Chromium, total	ug/L	MW-17	03/07/2019	ND	8.0000		
Chromium, total	ug/L	MW-17	09/26/2019	ND	8.0000		
Chromium, total	ug/L	MW-17	04/02/2020	ND	8.0000		
Chromium, total	ug/L	MW-17	09/17/2020	ND	8.0000		
Chromium, total	ug/L	MW-17	03/25/2021	ND	8.0000		
Chromium, total	ug/L	MW-17	09/16/2021	ND	8.0000		
Chromium, total	ug/L	MW-17	03/16/2022	ND	8.0000		
Chromium, total	ug/L	MW-17	09/01/2022	ND	8.0000		
Chromium, total	ug/L	MW-17	03/24/2023	ND	8.0000		
Chromium, total	ug/L	MW-17	09/07/2023	ND	8.0000		
Chromium, total	ug/L	MW-17	03/18/2024	ND	8.0000		
Chromium, total	ug/L	MW-17	09/25/2024	ND	8.0000		
Chromium, total	ug/L	MW-17	03/10/2025	ND	8.0000		
Chromium, total	ug/L	MW-17	09/08/2025		1.2000		*
Cobalt, total	ug/L	MW-17	09/18/2014	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-17	04/28/2015	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-17	10/06/2015	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-17	04/23/2016	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-17	09/01/2016	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-17	03/21/2017	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-17	10/13/2017	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-17	03/09/2018	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-17	09/06/2018	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-17	03/07/2019	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-17	09/26/2019	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-17	04/02/2020	ND	0.8000	0.5000	**
Cobalt, total	ug/L	MW-17	09/17/2020	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-17	03/25/2021	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-17	09/16/2021	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-17	03/16/2022	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-17	09/01/2022	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-17	03/24/2023	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-17	09/07/2023	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-17	03/18/2024	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-17	09/25/2024	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-17	03/10/2025	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-17	09/08/2025	ND	0.5000		
Copper, total	ug/L	MW-17	09/18/2014	ND	4.0000		
Copper, total	ug/L	MW-17	04/28/2015	ND	4.0000		
Copper, total	ug/L	MW-17	10/06/2015	ND	4.0000		
Copper, total	ug/L	MW-17	04/23/2016	ND	4.0000		
Copper, total	ug/L	MW-17	09/01/2016	ND	4.0000		
Copper, total	ug/L	MW-17	03/21/2017	ND	4.0000		
Copper, total	ug/L	MW-17	10/13/2017	ND	4.0000		
Copper, total	ug/L	MW-17	03/09/2018	ND	4.0000		
Copper, total	ug/L	MW-17	09/06/2018	ND	4.0000		
Copper, total	ug/L	MW-17	03/07/2019	ND	4.0000		
Copper, total	ug/L	MW-17	09/26/2019	ND	4.0000		
Copper, total	ug/L	MW-17	04/02/2020	ND	4.0000		
Copper, total	ug/L	MW-17	09/17/2020	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Copper, total	ug/L	MW-17	03/25/2021	ND	4.0000		
Copper, total	ug/L	MW-17	09/16/2021	ND	4.0000		
Copper, total	ug/L	MW-17	03/16/2022	ND	4.0000		
Copper, total	ug/L	MW-17	09/01/2022	ND	4.0000		
Copper, total	ug/L	MW-17	03/24/2023	ND	4.0000		
Copper, total	ug/L	MW-17	09/07/2023	ND	4.0000		
Copper, total	ug/L	MW-17	03/18/2024	ND	4.0000		
Copper, total	ug/L	MW-17	09/25/2024	ND	4.0000		
Copper, total	ug/L	MW-17	03/10/2025	ND	4.0000		
Copper, total	ug/L	MW-17	09/08/2025	ND	5.0000	4.0000	**
Lead, total	ug/L	MW-17	09/18/2014	ND	4.0000		
Lead, total	ug/L	MW-17	04/28/2015	ND	4.0000		
Lead, total	ug/L	MW-17	10/06/2015	ND	4.0000		
Lead, total	ug/L	MW-17	04/23/2016	ND	4.0000		
Lead, total	ug/L	MW-17	09/01/2016	ND	4.0000		
Lead, total	ug/L	MW-17	03/21/2017	ND	4.0000		
Lead, total	ug/L	MW-17	10/13/2017	ND	4.0000		
Lead, total	ug/L	MW-17	03/09/2018	ND	4.0000		
Lead, total	ug/L	MW-17	09/06/2018	ND	4.0000		
Lead, total	ug/L	MW-17	03/07/2019	ND	4.0000		
Lead, total	ug/L	MW-17	09/26/2019	ND	4.0000		
Lead, total	ug/L	MW-17	04/02/2020	ND	4.0000		
Lead, total	ug/L	MW-17	09/17/2020	ND	4.0000		
Lead, total	ug/L	MW-17	03/25/2021	ND	4.0000		
Lead, total	ug/L	MW-17	09/16/2021	ND	4.0000		
Lead, total	ug/L	MW-17	03/16/2022	ND	4.0000		
Lead, total	ug/L	MW-17	09/01/2022	ND	4.0000		
Lead, total	ug/L	MW-17	03/24/2023	ND	4.0000		
Lead, total	ug/L	MW-17	09/07/2023	ND	4.0000		
Lead, total	ug/L	MW-17	03/18/2024	ND	4.0000		
Lead, total	ug/L	MW-17	09/25/2024	ND	4.0000		
Lead, total	ug/L	MW-17	03/10/2025	ND	4.0000		
Lead, total	ug/L	MW-17	09/08/2025	ND	1.0000		*
Nickel, total	ug/L	MW-17	09/18/2014	ND	4.0000		
Nickel, total	ug/L	MW-17	04/28/2015	ND	4.0000		
Nickel, total	ug/L	MW-17	10/06/2015	ND	4.0000		
Nickel, total	ug/L	MW-17	04/23/2016	ND	4.0000		
Nickel, total	ug/L	MW-17	09/01/2016	ND	4.0000		
Nickel, total	ug/L	MW-17	03/21/2017	ND	4.0000		
Nickel, total	ug/L	MW-17	10/13/2017	ND	4.0000		
Nickel, total	ug/L	MW-17	03/09/2018	ND	4.0000		
Nickel, total	ug/L	MW-17	09/06/2018	ND	4.0000		
Nickel, total	ug/L	MW-17	03/07/2019	ND	4.0000		
Nickel, total	ug/L	MW-17	09/26/2019	ND	4.0000		
Nickel, total	ug/L	MW-17	04/02/2020	ND	4.0000		
Nickel, total	ug/L	MW-17	09/17/2020	ND	4.0000		
Nickel, total	ug/L	MW-17	03/25/2021	ND	4.0000		
Nickel, total	ug/L	MW-17	09/16/2021	ND	4.0000		
Nickel, total	ug/L	MW-17	03/16/2022	ND	4.0000		
Nickel, total	ug/L	MW-17	09/01/2022	ND	4.0000		
Nickel, total	ug/L	MW-17	03/24/2023	ND	4.0000		
Nickel, total	ug/L	MW-17	09/07/2023	ND	4.0000		
Nickel, total	ug/L	MW-17	03/18/2024	ND	4.0000		
Nickel, total	ug/L	MW-17	09/25/2024	ND	4.0000		
Nickel, total	ug/L	MW-17	03/10/2025	ND	4.0000		
Nickel, total	ug/L	MW-17	09/08/2025	ND	5.0000	4.0000	**
Selenium, total	ug/L	MW-17	09/18/2014	ND	4.0000		
Selenium, total	ug/L	MW-17	04/28/2015	ND	4.0000		
Selenium, total	ug/L	MW-17	10/06/2015	ND	4.0000		
Selenium, total	ug/L	MW-17	04/23/2016	ND	4.0000		
Selenium, total	ug/L	MW-17	09/01/2016	ND	4.0000		
Selenium, total	ug/L	MW-17	03/21/2017	ND	4.0000		
Selenium, total	ug/L	MW-17	10/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-17	03/09/2018	ND	4.0000		
Selenium, total	ug/L	MW-17	09/06/2018	ND	4.0000		
Selenium, total	ug/L	MW-17	03/07/2019	ND	4.0000		
Selenium, total	ug/L	MW-17	09/26/2019	ND	4.0000		
Selenium, total	ug/L	MW-17	04/02/2020	ND	4.0000		
Selenium, total	ug/L	MW-17	09/17/2020	ND	4.0000		
Selenium, total	ug/L	MW-17	03/25/2021	ND	4.0000		
Selenium, total	ug/L	MW-17	09/16/2021	ND	4.0000		
Selenium, total	ug/L	MW-17	03/16/2022	ND	4.0000		
Selenium, total	ug/L	MW-17	09/01/2022	ND	4.0000		
Selenium, total	ug/L	MW-17	03/24/2023	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Selenium, total	ug/L	MW-17	09/07/2023	ND	4.0000		
Selenium, total	ug/L	MW-17	03/18/2024	ND	4.0000		
Selenium, total	ug/L	MW-17	09/25/2024	ND	4.0000		
Selenium, total	ug/L	MW-17	03/10/2025	ND	4.0000		
Selenium, total	ug/L	MW-17	09/08/2025		2.7000		
Silver, total	ug/L	MW-17	09/18/2014	ND	4.0000		
Silver, total	ug/L	MW-17	04/28/2015	ND	4.0000		
Silver, total	ug/L	MW-17	10/06/2015	ND	4.0000		
Silver, total	ug/L	MW-17	04/23/2016	ND	4.0000		
Silver, total	ug/L	MW-17	09/01/2016	ND	4.0000		
Silver, total	ug/L	MW-17	03/21/2017	ND	4.0000		
Silver, total	ug/L	MW-17	10/13/2017	ND	4.0000		
Silver, total	ug/L	MW-17	03/09/2018	ND	4.0000		
Silver, total	ug/L	MW-17	09/06/2018	ND	8.0000	4.0000	**
Silver, total	ug/L	MW-17	03/07/2019	ND	4.0000		
Silver, total	ug/L	MW-17	09/26/2019	ND	4.0000		
Silver, total	ug/L	MW-17	04/02/2020	ND	4.0000		
Silver, total	ug/L	MW-17	09/17/2020	ND	4.0000		
Silver, total	ug/L	MW-17	03/25/2021	ND	4.0000		
Silver, total	ug/L	MW-17	09/16/2021	ND	4.0000		
Silver, total	ug/L	MW-17	03/16/2022	ND	4.0000		
Silver, total	ug/L	MW-17	09/01/2022	ND	4.0000		
Silver, total	ug/L	MW-17	03/24/2023	ND	4.0000		
Silver, total	ug/L	MW-17	09/07/2023	ND	4.0000		
Silver, total	ug/L	MW-17	03/18/2024	ND	4.0000		
Silver, total	ug/L	MW-17	09/25/2024	ND	4.0000		
Silver, total	ug/L	MW-17	03/10/2025	ND	4.0000		
Silver, total	ug/L	MW-17	09/08/2025	ND	5.0000	4.0000	**
Thallium, total	ug/L	MW-17	09/18/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/28/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/06/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/23/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	09/01/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	03/21/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/13/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	03/09/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	09/06/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	03/07/2019	ND	2.0000		
Thallium, total	ug/L	MW-17	09/26/2019	ND	2.0000		
Thallium, total	ug/L	MW-17	04/02/2020	ND	2.0000		
Thallium, total	ug/L	MW-17	09/17/2020	ND	2.0000		
Thallium, total	ug/L	MW-17	03/25/2021	ND	2.0000		
Thallium, total	ug/L	MW-17	09/16/2021	ND	2.0000		
Thallium, total	ug/L	MW-17	03/16/2022	ND	2.0000		
Thallium, total	ug/L	MW-17	09/01/2022	ND	2.0000		
Thallium, total	ug/L	MW-17	03/24/2023	ND	2.0000		
Thallium, total	ug/L	MW-17	09/07/2023	ND	2.0000		
Thallium, total	ug/L	MW-17	03/18/2024	ND	2.0000		
Thallium, total	ug/L	MW-17	09/25/2024	ND	2.0000		
Thallium, total	ug/L	MW-17	03/10/2025	ND	2.0000		
Thallium, total	ug/L	MW-17	09/08/2025	ND	0.5000		*
Vanadium, total	ug/L	MW-17	09/18/2014	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/28/2015	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/06/2015	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/23/2016	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/01/2016	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/21/2017	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/09/2018	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/06/2018	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/07/2019	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/26/2019	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/02/2020	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/17/2020	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/25/2021	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/16/2021	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/16/2022	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/01/2022	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/24/2023	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/07/2023	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/18/2024	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/25/2024	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/10/2025	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/08/2025	ND	2.0000		*

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Zinc, total	ug/L	MW-17	09/18/2014		8.1000		
Zinc, total	ug/L	MW-17	04/28/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	10/06/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	04/23/2016	ND	20.0000		
Zinc, total	ug/L	MW-17	09/01/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	03/21/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	10/13/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	03/09/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	09/06/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	03/07/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	09/26/2019		8.5000		
Zinc, total	ug/L	MW-17	04/02/2020	ND	20.0000		
Zinc, total	ug/L	MW-17	09/17/2020	ND	20.0000		
Zinc, total	ug/L	MW-17	03/25/2021	ND	20.0000		
Zinc, total	ug/L	MW-17	09/16/2021	ND	20.0000		
Zinc, total	ug/L	MW-17	03/16/2022	ND	20.0000		
Zinc, total	ug/L	MW-17	09/01/2022	ND	20.0000		
Zinc, total	ug/L	MW-17	03/24/2023	ND	20.0000		
Zinc, total	ug/L	MW-17	09/07/2023	ND	20.0000		
Zinc, total	ug/L	MW-17	03/18/2024	ND	20.0000		
Zinc, total	ug/L	MW-17	09/25/2024	ND	20.0000		
Zinc, total	ug/L	MW-17	03/10/2025	ND	20.0000		
Zinc, total	ug/L	MW-17	09/08/2025		7.3000		
Antimony, total	ug/L	MW-44	03/16/2022	ND	2.0000		
Antimony, total	ug/L	MW-44	11/13/2023	ND	2.0000		
Antimony, total	ug/L	MW-44	03/18/2024	ND	2.0000		
Antimony, total	ug/L	MW-44	11/25/2024	ND	2.0000		
Antimony, total	ug/L	MW-44	03/10/2025	ND	2.0000		
Antimony, total	ug/L	MW-44	09/08/2025		1.0000	2.0000	**
Arsenic, total	ug/L	MW-44	03/16/2022	ND	4.0000		
Arsenic, total	ug/L	MW-44	11/13/2023	ND	4.0000		
Arsenic, total	ug/L	MW-44	03/18/2024	ND	4.0000		
Arsenic, total	ug/L	MW-44	11/25/2024	ND	4.0000		
Arsenic, total	ug/L	MW-44	03/10/2025	ND	4.0000		
Arsenic, total	ug/L	MW-44	09/08/2025		2.0000	4.0000	**
Barium, total	ug/L	MW-44	03/16/2022		124.0000		
Barium, total	ug/L	MW-44	11/13/2023		137.0000		
Barium, total	ug/L	MW-44	03/18/2024		154.0000		
Barium, total	ug/L	MW-44	11/25/2024		134.0000		
Barium, total	ug/L	MW-44	03/10/2025		123.0000		
Barium, total	ug/L	MW-44	09/08/2025		126.0000		
Beryllium, total	ug/L	MW-44	03/16/2022	ND	4.0000		
Beryllium, total	ug/L	MW-44	11/13/2023	ND	4.0000		
Beryllium, total	ug/L	MW-44	03/18/2024	ND	4.0000		
Beryllium, total	ug/L	MW-44	11/25/2024	ND	4.0000		
Beryllium, total	ug/L	MW-44	03/10/2025	ND	4.0000		
Beryllium, total	ug/L	MW-44	09/08/2025		0.5000		*
Cadmium, total	ug/L	MW-44	03/16/2022	ND	0.8000		
Cadmium, total	ug/L	MW-44	11/13/2023	ND	0.8000		
Cadmium, total	ug/L	MW-44	03/18/2024	ND	0.8000		
Cadmium, total	ug/L	MW-44	11/25/2024	ND	0.8000		
Cadmium, total	ug/L	MW-44	03/10/2025	ND	0.8000		
Cadmium, total	ug/L	MW-44	09/08/2025		0.2000		*
Chromium, total	ug/L	MW-44	03/16/2022	ND	8.0000		
Chromium, total	ug/L	MW-44	11/13/2023	ND	8.0000		
Chromium, total	ug/L	MW-44	03/18/2024	ND	8.0000		
Chromium, total	ug/L	MW-44	11/25/2024	ND	8.0000		
Chromium, total	ug/L	MW-44	03/10/2025	ND	8.0000		
Chromium, total	ug/L	MW-44	09/08/2025		1.8000		*
Cobalt, total	ug/L	MW-44	03/16/2022	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-44	11/13/2023	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-44	03/18/2024	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-44	11/25/2024	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-44	03/10/2025	ND	0.4000	0.5000	**
Cobalt, total	ug/L	MW-44	09/08/2025		0.5000		
Copper, total	ug/L	MW-44	03/16/2022		4.3000		
Copper, total	ug/L	MW-44	11/13/2023	ND	4.0000		
Copper, total	ug/L	MW-44	03/18/2024	ND	4.0000		
Copper, total	ug/L	MW-44	11/25/2024	ND	4.0000		
Copper, total	ug/L	MW-44	03/10/2025	ND	4.0000		
Copper, total	ug/L	MW-44	09/08/2025		5.0000	4.0000	**
Lead, total	ug/L	MW-44	03/16/2022		6.1000		
Lead, total	ug/L	MW-44	11/13/2023	ND	4.0000		
Lead, total	ug/L	MW-44	03/18/2024	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lead, total	ug/L	MW-44	11/25/2024	ND	4.0000		
Lead, total	ug/L	MW-44	03/10/2025	ND	4.0000		
Lead, total	ug/L	MW-44	09/08/2025	ND	1.0000		*
Nickel, total	ug/L	MW-44	03/16/2022	ND	4.0000		
Nickel, total	ug/L	MW-44	11/13/2023	ND	4.0000		
Nickel, total	ug/L	MW-44	03/18/2024	ND	4.0000		
Nickel, total	ug/L	MW-44	11/25/2024	ND	4.0000		
Nickel, total	ug/L	MW-44	03/10/2025	ND	4.0000		
Nickel, total	ug/L	MW-44	09/08/2025	ND	5.0000	4.0000	**
Selenium, total	ug/L	MW-44	03/16/2022	ND	4.0000		
Selenium, total	ug/L	MW-44	11/13/2023	ND	4.0000		
Selenium, total	ug/L	MW-44	03/18/2024	ND	4.0000		
Selenium, total	ug/L	MW-44	11/25/2024	ND	4.0000		
Selenium, total	ug/L	MW-44	03/10/2025	ND	4.0000		
Selenium, total	ug/L	MW-44	09/08/2025	ND	2.0000	4.0000	**
Silver, total	ug/L	MW-44	03/16/2022	ND	4.0000		
Silver, total	ug/L	MW-44	11/13/2023	ND	4.0000		
Silver, total	ug/L	MW-44	03/18/2024	ND	4.0000		
Silver, total	ug/L	MW-44	11/25/2024	ND	4.0000		
Silver, total	ug/L	MW-44	03/10/2025	ND	4.0000		
Silver, total	ug/L	MW-44	09/08/2025	ND	5.0000	4.0000	**
Thallium, total	ug/L	MW-44	03/16/2022	ND	2.0000		
Thallium, total	ug/L	MW-44	11/13/2023	ND	2.0000		
Thallium, total	ug/L	MW-44	03/18/2024	ND	2.0000		
Thallium, total	ug/L	MW-44	11/25/2024	ND	2.0000		
Thallium, total	ug/L	MW-44	03/10/2025	ND	2.0000		
Thallium, total	ug/L	MW-44	09/08/2025	ND	0.5000		*
Vanadium, total	ug/L	MW-44	03/16/2022	ND	20.0000		
Vanadium, total	ug/L	MW-44	11/13/2023	ND	20.0000		
Vanadium, total	ug/L	MW-44	03/18/2024	ND	20.0000		
Vanadium, total	ug/L	MW-44	11/25/2024	ND	20.0000		
Vanadium, total	ug/L	MW-44	03/10/2025	ND	20.0000		
Vanadium, total	ug/L	MW-44	09/08/2025	ND	2.0000		*
Zinc, total	ug/L	MW-44	03/16/2022		69.2000		
Zinc, total	ug/L	MW-44	11/13/2023	ND	20.0000		
Zinc, total	ug/L	MW-44	03/18/2024	ND	20.0000		
Zinc, total	ug/L	MW-44	11/25/2024	ND	20.0000		
Zinc, total	ug/L	MW-44	03/10/2025	ND	20.0000		
Zinc, total	ug/L	MW-44	09/08/2025		5.8000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, total	ug/L	GWD-1	09/08/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	GWD-1	09/08/2025	ND	2.0000		5.6000
Barium, total	ug/L	GWD-1	09/08/2025		253.0000		735.5741
Beryllium, total	ug/L	GWD-1	09/08/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	GWD-1	09/08/2025	ND	0.2000		1.4000
Chromium, total	ug/L	GWD-1	09/08/2025	ND	1.0000		8.9000
Cobalt, total	ug/L	GWD-1	09/08/2025	ND	0.5000		30.6000
Copper, total	ug/L	GWD-1	09/08/2025	ND	5.0000		11.6000
Lead, total	ug/L	GWD-1	09/08/2025	ND	1.0000		7.4000
Nickel, total	ug/L	GWD-1	09/08/2025	ND	5.0000		60.4000
Selenium, total	ug/L	GWD-1	09/08/2025	ND	2.0000		4.0000
Silver, total	ug/L	GWD-1	09/08/2025	ND	5.0000		4.0000
Thallium, total	ug/L	GWD-1	09/08/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	GWD-1	09/08/2025	ND	2.0000		20.0000
Zinc, total	ug/L	GWD-1	09/08/2025	ND	5.0000		69.2000
Antimony, total	ug/L	GWD-3	09/08/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	GWD-3	09/08/2025	ND	2.0000		5.6000
Barium, total	ug/L	GWD-3	09/08/2025		306.0000		735.5741
Beryllium, total	ug/L	GWD-3	09/08/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	GWD-3	09/08/2025	ND	0.2000		1.4000
Chromium, total	ug/L	GWD-3	09/08/2025	ND	1.0000		8.9000
Cobalt, total	ug/L	GWD-3	09/08/2025	ND	0.5000		30.6000
Copper, total	ug/L	GWD-3	09/08/2025	ND	5.0000		11.6000
Lead, total	ug/L	GWD-3	09/08/2025	ND	1.0000		7.4000
Nickel, total	ug/L	GWD-3	09/08/2025	ND	5.0000		60.4000
Selenium, total	ug/L	GWD-3	09/08/2025	ND	2.0000		4.0000
Silver, total	ug/L	GWD-3	09/08/2025	ND	5.0000		4.0000
Thallium, total	ug/L	GWD-3	09/08/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	GWD-3	09/08/2025	ND	2.0000		20.0000
Zinc, total	ug/L	GWD-3	09/08/2025		370.0000	***	69.2000
Antimony, total	ug/L	GWD-4	09/08/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	GWD-4	09/08/2025	ND	2.0000		5.6000
Barium, total	ug/L	GWD-4	09/08/2025		353.0000		735.5741
Beryllium, total	ug/L	GWD-4	09/08/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	GWD-4	09/08/2025	ND	0.2000		1.4000
Chromium, total	ug/L	GWD-4	09/08/2025		2.5000		8.9000
Cobalt, total	ug/L	GWD-4	09/08/2025		0.7000		30.6000
Copper, total	ug/L	GWD-4	09/08/2025	ND	5.0000		11.6000
Lead, total	ug/L	GWD-4	09/08/2025		1.0000		7.4000
Nickel, total	ug/L	GWD-4	09/08/2025		7.7000		60.4000
Selenium, total	ug/L	GWD-4	09/08/2025	ND	2.0000		4.0000
Silver, total	ug/L	GWD-4	09/08/2025	ND	5.0000		4.0000
Thallium, total	ug/L	GWD-4	09/08/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	GWD-4	09/08/2025		3.0000		20.0000
Zinc, total	ug/L	GWD-4	09/08/2025		128.0000	*	69.2000
Antimony, total	ug/L	MW-10	09/08/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-10	09/08/2025	ND	2.0000	**	5.6000
Barium, total	ug/L	MW-10	09/08/2025		402.0000		735.5741
Beryllium, total	ug/L	MW-10	09/08/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-10	09/08/2025		0.2000		1.4000
Chromium, total	ug/L	MW-10	09/08/2025		1.1000		8.9000
Cobalt, total	ug/L	MW-10	09/08/2025		0.8000		30.6000
Copper, total	ug/L	MW-10	09/08/2025	ND	5.0000		11.6000
Lead, total	ug/L	MW-10	09/08/2025	ND	1.0000		7.4000
Nickel, total	ug/L	MW-10	09/08/2025		6.7000		60.4000
Selenium, total	ug/L	MW-10	09/08/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW-10	09/08/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW-10	09/08/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-10	09/08/2025	ND	2.0000		20.0000
Zinc, total	ug/L	MW-10	09/08/2025		5.8000		69.2000
Antimony, total	ug/L	MW-13	09/08/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-13	09/08/2025	ND	2.0000		5.6000
Barium, total	ug/L	MW-13	09/08/2025		51.9000		735.5741
Beryllium, total	ug/L	MW-13	09/08/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-13	09/08/2025	ND	0.2000		1.4000
Chromium, total	ug/L	MW-13	09/08/2025	ND	1.0000		8.9000
Cobalt, total	ug/L	MW-13	09/08/2025	ND	0.5000		30.6000
Copper, total	ug/L	MW-13	09/08/2025	ND	5.0000		11.6000
Lead, total	ug/L	MW-13	09/08/2025	ND	1.0000		7.4000
Nickel, total	ug/L	MW-13	09/08/2025	ND	5.0000		60.4000
Selenium, total	ug/L	MW-13	09/08/2025		2.3000		4.0000
Silver, total	ug/L	MW-13	09/08/2025	ND	5.0000		4.0000

* - Current value failed - awaiting verification.

** - Current value passed - previous exceedance not verified.

*** - Current value failed - exceedance verified.

**** - Current value passed - awaiting one more verification.

***** - Insufficient background data to compute prediction limit.

ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Thallium, total	ug/L	MW-13	09/08/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-13	09/08/2025	ND	2.0000		20.0000
Zinc, total	ug/L	MW-13	09/08/2025		9.3000		69.2000
Antimony, total	ug/L	MW-14	09/08/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-14	09/08/2025	ND	2.0000		5.6000
Barium, total	ug/L	MW-14	09/08/2025		124.0000		735.5741
Beryllium, total	ug/L	MW-14	09/08/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-14	09/08/2025		6.8000	*	1.4000
Chromium, total	ug/L	MW-14	09/08/2025	ND	1.0000		8.9000
Cobalt, total	ug/L	MW-14	09/08/2025	ND	0.5000		30.6000
Copper, total	ug/L	MW-14	09/08/2025	ND	5.0000		11.6000
Lead, total	ug/L	MW-14	09/08/2025	ND	1.0000		7.4000
Nickel, total	ug/L	MW-14	09/08/2025		5.0000		60.4000
Selenium, total	ug/L	MW-14	09/08/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW-14	09/08/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW-14	09/08/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-14	09/08/2025	ND	2.0000		20.0000
Zinc, total	ug/L	MW-14	09/08/2025		8.4000		69.2000
Antimony, total	ug/L	MW-16	09/08/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-16	09/08/2025		45.8000	***	5.6000
Barium, total	ug/L	MW-16	09/08/2025		1110.0000	*	735.5741
Beryllium, total	ug/L	MW-16	09/08/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-16	09/08/2025	ND	0.2000		1.4000
Chromium, total	ug/L	MW-16	09/08/2025	ND	1.0000		8.9000
Cobalt, total	ug/L	MW-16	09/08/2025		1.9000		30.6000
Copper, total	ug/L	MW-16	09/08/2025	ND	5.0000		11.6000
Lead, total	ug/L	MW-16	09/08/2025	ND	1.0000		7.4000
Nickel, total	ug/L	MW-16	09/08/2025		39.0000		60.4000
Selenium, total	ug/L	MW-16	09/08/2025		3.0000		4.0000
Silver, total	ug/L	MW-16	09/08/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW-16	09/08/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-16	09/08/2025	ND	2.0000		20.0000
Zinc, total	ug/L	MW-16	09/08/2025	ND	5.0000		69.2000
Antimony, total	ug/L	MW-18	09/08/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-18	09/08/2025		40.3000	***	5.6000
Barium, total	ug/L	MW-18	09/08/2025		539.0000		735.5741
Beryllium, total	ug/L	MW-18	09/08/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-18	09/08/2025		0.2000		1.4000
Chromium, total	ug/L	MW-18	09/08/2025	ND	1.0000		8.9000
Cobalt, total	ug/L	MW-18	09/08/2025		1.2000		30.6000
Copper, total	ug/L	MW-18	09/08/2025	ND	5.0000	**	11.6000
Lead, total	ug/L	MW-18	09/08/2025	ND	1.0000		7.4000
Nickel, total	ug/L	MW-18	09/08/2025		5.7000		60.4000
Selenium, total	ug/L	MW-18	09/08/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW-18	09/08/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW-18	09/08/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-18	09/08/2025	ND	2.0000		20.0000
Zinc, total	ug/L	MW-18	09/08/2025		14.8000		69.2000
Antimony, total	ug/L	MW-19R	09/08/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-19R	09/08/2025	ND	2.0000		5.6000
Barium, total	ug/L	MW-19R	09/08/2025		226.0000		735.5741
Beryllium, total	ug/L	MW-19R	09/08/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-19R	09/08/2025		0.2000		1.4000
Chromium, total	ug/L	MW-19R	09/08/2025	ND	1.0000		8.9000
Cobalt, total	ug/L	MW-19R	09/08/2025		0.7000		30.6000
Copper, total	ug/L	MW-19R	09/08/2025	ND	5.0000		11.6000
Lead, total	ug/L	MW-19R	09/08/2025	ND	1.0000		7.4000
Nickel, total	ug/L	MW-19R	09/08/2025		5.7000		60.4000
Selenium, total	ug/L	MW-19R	09/08/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW-19R	09/08/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW-19R	09/08/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-19R	09/08/2025	ND	2.0000		20.0000
Zinc, total	ug/L	MW-19R	09/08/2025		10.1000		69.2000
Antimony, total	ug/L	MW-1D	09/08/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-1D	09/08/2025	ND	2.0000		5.6000
Barium, total	ug/L	MW-1D	09/08/2025		657.0000		735.5741
Beryllium, total	ug/L	MW-1D	09/08/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-1D	09/08/2025	ND	0.2000		1.4000
Chromium, total	ug/L	MW-1D	09/08/2025		1.2000		8.9000
Cobalt, total	ug/L	MW-1D	09/08/2025		5.7000		30.6000
Copper, total	ug/L	MW-1D	09/08/2025	ND	5.0000		11.6000
Lead, total	ug/L	MW-1D	09/08/2025	ND	1.0000		7.4000

* - Current value failed - awaiting verification.

** - Current value passed - previous exceedance not verified.

*** - Current value failed - exceedance verified.

**** - Current value passed - awaiting one more verification.

***** - Insufficient background data to compute prediction limit.

ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Nickel, total	ug/L	MW-1D	09/08/2025		16.6000		60.4000
Selenium, total	ug/L	MW-1D	09/08/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW-1D	09/08/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW-1D	09/08/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-1D	09/08/2025	ND	2.0000		20.0000
Zinc, total	ug/L	MW-1D	09/08/2025		13.8000		69.2000
Antimony, total	ug/L	MW-20	09/08/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-20	09/08/2025		59.7000	***	5.6000
Barium, total	ug/L	MW-20	09/08/2025		1860.0000	***	735.5741
Beryllium, total	ug/L	MW-20	09/08/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-20	09/08/2025	ND	0.2000		1.4000
Chromium, total	ug/L	MW-20	09/08/2025	ND	1.0000		8.9000
Cobalt, total	ug/L	MW-20	09/08/2025		3.0000		30.6000
Copper, total	ug/L	MW-20	09/08/2025	ND	5.0000	**	11.6000
Lead, total	ug/L	MW-20	09/08/2025	ND	1.0000		7.4000
Nickel, total	ug/L	MW-20	09/08/2025		10.4000		60.4000
Selenium, total	ug/L	MW-20	09/08/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW-20	09/08/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW-20	09/08/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-20	09/08/2025	ND	2.0000		20.0000
Zinc, total	ug/L	MW-20	09/08/2025		7.0000		69.2000
Antimony, total	ug/L	MW-3	09/08/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-3	09/08/2025	ND	2.0000		5.6000
Barium, total	ug/L	MW-3	09/08/2025		283.0000		735.5741
Beryllium, total	ug/L	MW-3	09/08/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-3	09/08/2025	ND	0.2000	**	1.4000
Chromium, total	ug/L	MW-3	09/08/2025		3.7000		8.9000
Cobalt, total	ug/L	MW-3	09/08/2025	ND	0.5000		30.6000
Copper, total	ug/L	MW-3	09/08/2025	ND	5.0000		11.6000
Lead, total	ug/L	MW-3	09/08/2025	ND	1.0000		7.4000
Nickel, total	ug/L	MW-3	09/08/2025	ND	5.0000		60.4000
Selenium, total	ug/L	MW-3	09/08/2025		3.8000		4.0000
Silver, total	ug/L	MW-3	09/08/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW-3	09/08/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-3	09/08/2025	ND	2.0000		20.0000
Zinc, total	ug/L	MW-3	09/08/2025		5.8000		69.2000
Antimony, total	ug/L	MW-53	09/08/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-53	09/08/2025	ND	2.0000		5.6000
Barium, total	ug/L	MW-53	09/08/2025		89.5000		735.5741
Beryllium, total	ug/L	MW-53	09/08/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-53	09/08/2025	ND	0.2000		1.4000
Chromium, total	ug/L	MW-53	09/08/2025		1.4000		8.9000
Cobalt, total	ug/L	MW-53	09/08/2025	ND	0.5000		30.6000
Copper, total	ug/L	MW-53	09/08/2025	ND	5.0000		11.6000
Lead, total	ug/L	MW-53	09/08/2025	ND	1.0000		7.4000
Nickel, total	ug/L	MW-53	09/08/2025	ND	5.0000		60.4000
Selenium, total	ug/L	MW-53	09/08/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW-53	09/08/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW-53	09/08/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-53	09/08/2025	ND	2.0000		20.0000
Zinc, total	ug/L	MW-53	09/08/2025		6.3000		69.2000
Antimony, total	ug/L	MW-7	09/08/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-7	09/08/2025		8.4000	***	5.6000
Barium, total	ug/L	MW-7	09/08/2025		313.0000		735.5741
Beryllium, total	ug/L	MW-7	09/08/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-7	09/08/2025	ND	0.2000	**	1.4000
Chromium, total	ug/L	MW-7	09/08/2025	ND	1.0000		8.9000
Cobalt, total	ug/L	MW-7	09/08/2025		9.2000		30.6000
Copper, total	ug/L	MW-7	09/08/2025	ND	5.0000		11.6000
Lead, total	ug/L	MW-7	09/08/2025	ND	1.0000		7.4000
Nickel, total	ug/L	MW-7	09/08/2025		19.3000		60.4000
Selenium, total	ug/L	MW-7	09/08/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW-7	09/08/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW-7	09/08/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-7	09/08/2025	ND	2.0000		20.0000
Zinc, total	ug/L	MW-7	09/08/2025		11.4000		69.2000

* - Current value failed - awaiting verification.

** - Current value passed - previous exceedance not verified.

*** - Current value failed - exceedance verified.

**** - Current value passed - awaiting one more verification.

***** - Insufficient background data to compute prediction limit.

ND = Not Detected, Result = detection limit.

Table 3**Detection Frequencies in Upgradient and Downgradient Wells**

Constituent	Detect	Upgradient N	Proportion	Detect	Downgradient N	Proportion
Antimony, total	0	47	0.000	7	359	0.019
Arsenic, total	1	47	0.021	164	363	0.452
Barium, total	47	47	1.000	361	361	1.000
Beryllium, total	0	45	0.000	4	360	0.011
Cadmium, total	4	46	0.087	34	363	0.094
Chromium, total	1	45	0.022	34	360	0.094
Cobalt, total	11	47	0.234	200	361	0.554
Copper, total	2	47	0.043	70	360	0.194
Lead, total	3	45	0.067	46	360	0.128
Nickel, total	12	47	0.255	285	360	0.792
Selenium, total	1	47	0.021	41	363	0.113
Silver, total	0	47	0.000	0	359	0.000
Thallium, total	0	45	0.000	1	359	0.003
Vanadium, total	0	45	0.000	29	360	0.081
Zinc, total	11	47	0.234	118	361	0.327

N = Total number of measurements in all wells.

Detect = Total number of detections in all wells.

Proportion = Detect/N.

Table 4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Antimony, total	0	47	0.000									nonpar
Arsenic, total	1	47	0.021									nonpar
Barium, total	47	47	1.000	1.210	0.876					2.326	normal	normal
Beryllium, total	0	45	0.000									nonpar
Cadmium, total	4	46	0.087	1.278	0.530					2.326	normal	nonpar
Chromium, total	1	45	0.022									nonpar
Cobalt, total	11	47	0.234	2.030	0.246					2.326	normal	nonpar
Copper, total	2	47	0.043									nonpar
Lead, total	3	45	0.067									nonpar
Nickel, total	12	47	0.255	2.926	1.116					2.326	lognor	nonpar
Selenium, total	1	47	0.021									nonpar
Silver, total	0	47	0.000									nonpar
Thallium, total	0	45	0.000									nonpar
Vanadium, total	0	45	0.000									nonpar
Zinc, total	11	47	0.234	0.418	0.113					2.326	normal	nonpar

* - Distribution override for that constituent.

Fit to distribution is confirmed if G <= critical value.

Model type may not match distributional form when detection frequency < 50%.

Table 5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Antimony, total	ug/L	0	47	243.1617	202.1711	0.0100	2.4356	2.0000	nonpar	***	0.99
Arsenic, total	ug/L	1	47					5.6000	nonpar		0.99
Barium, total	ug/L	47	47					735.5741	normal		
Beryllium, total	ug/L	0	45					4.0000	nonpar	***	0.99
Cadmium, total	ug/L	4	46					1.4000	nonpar		0.99
Chromium, total	ug/L	1	45					8.9000	nonpar		0.99
Cobalt, total	ug/L	11	47					30.6000	nonpar		0.99
Copper, total	ug/L	2	47					11.6000	nonpar		0.99
Lead, total	ug/L	3	45					7.4000	nonpar		0.99
Nickel, total	ug/L	12	47					60.4000	nonpar		0.99
Selenium, total	ug/L	1	47					4.0000	nonpar	***	0.99
Silver, total	ug/L	0	47					4.0000	nonpar	***	0.99
Thallium, total	ug/L	0	45					2.0000	nonpar	***	0.99
Vanadium, total	ug/L	0	45					20.0000	nonpar	***	0.99
Zinc, total	ug/L	11	47					69.2000	nonpar		0.99

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

For transformed data, mean and SD in transformed units and prediction limit in original units.

All sample sizes and statistics are based on outlier free data.

For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 6

**Dixon's Test Outliers
1% Significance Level**

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Beryllium, total	ug/L	MW-17	09/08/2025	0.5000	< 0.5000	09/18/2014-09/08/2025	23	0.5065
Chromium, total	ug/L	MW-17	09/08/2025	1.2000		09/18/2014-09/08/2025	23	0.5065
Lead, total	ug/L	MW-17	09/08/2025	1.0000	< 1.0000	09/18/2014-09/08/2025	23	0.5065
Thallium, total	ug/L	MW-17	09/08/2025	0.5000	< 0.5000	09/18/2014-09/08/2025	23	0.5065
Vanadium, total	ug/L	MW-17	09/08/2025	2.0000	< 2.0000	09/18/2014-09/08/2025	23	0.5065
Beryllium, total	ug/L	MW-44	09/08/2025	0.5000	< 0.5000	03/16/2022-09/08/2025	6	0.6987
Cadmium, total	ug/L	MW-44	09/08/2025	0.2000	< 0.2000	03/16/2022-09/08/2025	6	0.6987
Chromium, total	ug/L	MW-44	09/08/2025	1.8000		03/16/2022-09/08/2025	6	0.6987
Lead, total	ug/L	MW-44	09/08/2025	1.0000	< 1.0000	03/16/2022-09/08/2025	6	0.6987
Thallium, total	ug/L	MW-44	09/08/2025	0.5000	< 0.5000	03/16/2022-09/08/2025	6	0.6987
Vanadium, total	ug/L	MW-44	09/08/2025	2.0000	< 2.0000	03/16/2022-09/08/2025	6	0.6987

N = Total number of independent measurements in background at each well.

Date Range = Dates of the first and last measurements included in background at each well.

Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table 8

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Zinc, total	ug/L	GWD-3	08/01/2024		173.0000 *	69.2000
Zinc, total	ug/L	GWD-3	09/25/2024	ND	20.0000	69.2000
Zinc, total	ug/L	GWD-3	03/10/2025		120.0000 *	69.2000
Zinc, total	ug/L	GWD-3	09/08/2025		370.0000 *	69.2000
Zinc, total	ug/L	GWD-4	08/01/2024		67.2000	69.2000
Zinc, total	ug/L	GWD-4	09/25/2024		106.0000 *	69.2000
Zinc, total	ug/L	GWD-4	11/25/2024		127.0000 *	69.2000
Zinc, total	ug/L	GWD-4	03/10/2025		58.9000	69.2000
Zinc, total	ug/L	GWD-4	09/08/2025		128.0000 *	69.2000
Arsenic, total	ug/L	MW-10	04/16/2008	ND	5.0000	5.6000
Arsenic, total	ug/L	MW-10	06/17/2008	ND	5.0000	5.6000
Arsenic, total	ug/L	MW-10	08/20/2008	ND	5.0000	5.6000
Arsenic, total	ug/L	MW-10	10/16/2008		4.5000	5.6000
Arsenic, total	ug/L	MW-10	12/04/2008	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-10	03/16/2009	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-10	09/24/2009	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-10	04/19/2010	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-10	09/29/2010		20.0000 *	5.6000
Arsenic, total	ug/L	MW-10	05/03/2011	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-10	10/10/2011	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-10	04/23/2012		10.2000 *	5.6000
Arsenic, total	ug/L	MW-10	09/10/2012	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-10	04/04/2013		6.8000 *	5.6000
Arsenic, total	ug/L	MW-10	10/10/2013	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-10	04/22/2014		10.5000 *	5.6000
Arsenic, total	ug/L	MW-10	09/17/2014		18.2000 *	5.6000
Arsenic, total	ug/L	MW-10	04/28/2015		6.5000 *	5.6000
Arsenic, total	ug/L	MW-10	10/06/2015		7.1000 *	5.6000
Arsenic, total	ug/L	MW-10	04/23/2016		16.7000 *	5.6000
Arsenic, total	ug/L	MW-10	09/01/2016		9.2000 *	5.6000
Arsenic, total	ug/L	MW-10	03/21/2017	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-10	10/13/2017		18.2000 *	5.6000
Arsenic, total	ug/L	MW-10	03/09/2018		7.7000 *	5.6000
Arsenic, total	ug/L	MW-10	09/06/2018		47.8000 *	5.6000
Arsenic, total	ug/L	MW-10	03/07/2019		4.1000	5.6000
Arsenic, total	ug/L	MW-10	09/26/2019		11.3000 *	5.6000
Arsenic, total	ug/L	MW-10	04/02/2020		38.6000 *	5.6000
Arsenic, total	ug/L	MW-10	09/17/2020	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-10	03/25/2021		8.7000 *	5.6000
Arsenic, total	ug/L	MW-10	09/16/2021	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-10	03/16/2022		26.6000 *	5.6000
Arsenic, total	ug/L	MW-10	09/01/2022	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-10	03/24/2023	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-10	09/07/2023	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-10	03/18/2024	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-10	09/25/2024		5.2000	5.6000
Arsenic, total	ug/L	MW-10	03/10/2025		10.8000 *	5.6000
Arsenic, total	ug/L	MW-10	09/08/2025	ND	2.0000	5.6000
Cadmium, total	ug/L	MW-14	04/16/2008	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-14	06/17/2008		1.0000	1.4000
Cadmium, total	ug/L	MW-14	08/20/2008	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-14	10/16/2008	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-14	12/04/2008	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-14	03/16/2009		1.1000	1.4000
Cadmium, total	ug/L	MW-14	09/24/2009		1.3000	1.4000
Cadmium, total	ug/L	MW-14	04/19/2010	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-14	09/29/2010		1.2000	1.4000
Cadmium, total	ug/L	MW-14	05/04/2011	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	10/10/2011		1.1000	1.4000
Cadmium, total	ug/L	MW-14	04/24/2012	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	09/10/2012	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	04/04/2013	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	10/10/2013	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	04/22/2014	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	09/18/2014	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	04/28/2015	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	10/06/2015	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	04/23/2016	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	09/01/2016	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	03/22/2017	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	10/13/2017	ND	0.8000	1.4000

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Cadmium, total	ug/L	MW-14	03/09/2018	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	09/06/2018	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	03/07/2019	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	09/26/2019	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	04/02/2020	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	09/17/2020	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	03/25/2021	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	09/16/2021	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	03/16/2022	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	09/01/2022		3.9000 *	1.4000
Cadmium, total	ug/L	MW-14	11/29/2022	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	03/24/2023	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	09/07/2023	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	03/18/2024	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	09/25/2024		3.5000 *	1.4000
Cadmium, total	ug/L	MW-14	11/25/2024	ND	5.0000	1.4000
Cadmium, total	ug/L	MW-14	03/10/2025	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-14	09/08/2025		6.8000 *	1.4000
Arsenic, total	ug/L	MW-16	04/16/2008		39.0000 *	5.6000
Arsenic, total	ug/L	MW-16	06/17/2008		28.0000 *	5.6000
Arsenic, total	ug/L	MW-16	08/20/2008		35.0000 *	5.6000
Arsenic, total	ug/L	MW-16	10/16/2008		36.8000 *	5.6000
Arsenic, total	ug/L	MW-16	12/04/2008		40.1000 *	5.6000
Arsenic, total	ug/L	MW-16	03/16/2009		37.8000 *	5.6000
Arsenic, total	ug/L	MW-16	09/24/2009		33.0000 *	5.6000
Arsenic, total	ug/L	MW-16	04/19/2010		33.9000 *	5.6000
Arsenic, total	ug/L	MW-16	09/29/2010		32.0000 *	5.6000
Arsenic, total	ug/L	MW-16	05/03/2011		33.8000 *	5.6000
Arsenic, total	ug/L	MW-16	10/11/2011		39.0000 *	5.6000
Arsenic, total	ug/L	MW-16	04/23/2012		42.4000 *	5.6000
Arsenic, total	ug/L	MW-16	09/10/2012		39.5000 *	5.6000
Arsenic, total	ug/L	MW-16	04/04/2013		23.1000 *	5.6000
Arsenic, total	ug/L	MW-16	10/11/2013		35.1000 *	5.6000
Arsenic, total	ug/L	MW-16	04/23/2014		37.2000 *	5.6000
Arsenic, total	ug/L	MW-16	09/18/2014		34.3000 *	5.6000
Arsenic, total	ug/L	MW-16	04/29/2015		38.5000 *	5.6000
Arsenic, total	ug/L	MW-16	10/06/2015	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-16	04/23/2016	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-16	09/01/2016	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-16	03/22/2017		9.3000 *	5.6000
Arsenic, total	ug/L	MW-16	10/13/2017		19.0000 *	5.6000
Arsenic, total	ug/L	MW-16	03/09/2018	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-16	09/06/2018	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-16	09/26/2019		6.3000 *	5.6000
Arsenic, total	ug/L	MW-16	04/02/2020		9.3000 *	5.6000
Arsenic, total	ug/L	MW-16	09/17/2020		6.5000 *	5.6000
Arsenic, total	ug/L	MW-16	03/25/2021		21.2000 *	5.6000
Arsenic, total	ug/L	MW-16	09/16/2021		10.4000 *	5.6000
Arsenic, total	ug/L	MW-16	03/16/2022		26.5000 *	5.6000
Arsenic, total	ug/L	MW-16	09/01/2022		4.7000	5.6000
Arsenic, total	ug/L	MW-16	03/24/2023		4.3000	5.6000
Arsenic, total	ug/L	MW-16	09/07/2023	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-16	03/18/2024		20.4000 *	5.6000
Arsenic, total	ug/L	MW-16	09/25/2024		26.2000 *	5.6000
Arsenic, total	ug/L	MW-16	03/10/2025		24.0000 *	5.6000
Arsenic, total	ug/L	MW-16	09/08/2025		45.8000 *	5.6000
Barium, total	ug/L	MW-16	04/16/2008		1150.0000 *	735.5741
Barium, total	ug/L	MW-16	06/17/2008		1280.0000 *	735.5741
Barium, total	ug/L	MW-16	08/20/2008		1360.0000 *	735.5741
Barium, total	ug/L	MW-16	10/16/2008		1280.0000 *	735.5741
Barium, total	ug/L	MW-16	12/04/2008		296.0000	735.5741
Barium, total	ug/L	MW-16	03/16/2009		1540.0000 *	735.5741
Barium, total	ug/L	MW-16	09/24/2009		1070.0000 *	735.5741
Barium, total	ug/L	MW-16	04/19/2010		1230.0000 *	735.5741
Barium, total	ug/L	MW-16	09/29/2010		1390.0000 *	735.5741
Barium, total	ug/L	MW-16	05/03/2011		1260.0000 *	735.5741
Barium, total	ug/L	MW-16	10/11/2011		1410.0000 *	735.5741
Barium, total	ug/L	MW-16	04/23/2012		1270.0000 *	735.5741
Barium, total	ug/L	MW-16	09/10/2012		1150.0000 *	735.5741
Barium, total	ug/L	MW-16	04/04/2013		1080.0000 *	735.5741
Barium, total	ug/L	MW-16	10/11/2013		1250.0000 *	735.5741

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Barium, total	ug/L	MW-16	04/23/2014		1110.0000 *	735.5741
Barium, total	ug/L	MW-16	09/18/2014		1130.0000 *	735.5741
Barium, total	ug/L	MW-16	04/29/2015		1370.0000 *	735.5741
Barium, total	ug/L	MW-16	10/06/2015		790.0000 *	735.5741
Barium, total	ug/L	MW-16	04/23/2016		779.0000 *	735.5741
Barium, total	ug/L	MW-16	09/01/2016		711.0000 *	735.5741
Barium, total	ug/L	MW-16	03/22/2017		867.0000 *	735.5741
Barium, total	ug/L	MW-16	10/13/2017		1020.0000 *	735.5741
Barium, total	ug/L	MW-16	01/12/2018		818.0000 *	735.5741
Barium, total	ug/L	MW-16	03/09/2018		668.0000 *	735.5741
Barium, total	ug/L	MW-16	09/06/2018		719.0000 *	735.5741
Barium, total	ug/L	MW-16	09/26/2019		796.0000 *	735.5741
Barium, total	ug/L	MW-16	04/02/2020		925.0000 *	735.5741
Barium, total	ug/L	MW-16	09/17/2020		806.0000 *	735.5741
Barium, total	ug/L	MW-16	03/25/2021		1010.0000 *	735.5741
Barium, total	ug/L	MW-16	09/16/2021		798.0000 *	735.5741
Barium, total	ug/L	MW-16	03/16/2022		1010.0000 *	735.5741
Barium, total	ug/L	MW-16	09/01/2022		655.0000 *	735.5741
Barium, total	ug/L	MW-16	03/24/2023		481.0000 *	735.5741
Barium, total	ug/L	MW-16	09/07/2023		311.0000 *	735.5741
Barium, total	ug/L	MW-16	03/18/2024		713.0000 *	735.5741
Barium, total	ug/L	MW-16	09/25/2024		756.0000 *	735.5741
Barium, total	ug/L	MW-16	03/10/2025		697.0000 *	735.5741
Barium, total	ug/L	MW-16	09/08/2025		1110.0000 *	735.5741
Arsenic, total	ug/L	MW-18	04/19/2010		64.6000 *	5.6000
Arsenic, total	ug/L	MW-18	05/27/2010		19.9000 *	5.6000
Arsenic, total	ug/L	MW-18	07/28/2010		29.0000 *	5.6000
Arsenic, total	ug/L	MW-18	09/29/2010		173.0000 *	5.6000
Arsenic, total	ug/L	MW-18	11/03/2010		225.0000 *	5.6000
Arsenic, total	ug/L	MW-18	05/04/2011		11.4000 *	5.6000
Arsenic, total	ug/L	MW-18	10/11/2011		8.9000 *	5.6000
Arsenic, total	ug/L	MW-18	04/23/2012		29.0000 *	5.6000
Arsenic, total	ug/L	MW-18	09/11/2012		15.0000 *	5.6000
Arsenic, total	ug/L	MW-18	04/04/2013		9.6000 *	5.6000
Arsenic, total	ug/L	MW-18	10/11/2013		17.7000 *	5.6000
Arsenic, total	ug/L	MW-18	04/23/2014		9.0000 *	5.6000
Arsenic, total	ug/L	MW-18	09/17/2014		22.0000 *	5.6000
Arsenic, total	ug/L	MW-18	04/28/2015		45.9000 *	5.6000
Arsenic, total	ug/L	MW-18	10/06/2015		39.2000 *	5.6000
Arsenic, total	ug/L	MW-18	04/23/2016		51.8000 *	5.6000
Arsenic, total	ug/L	MW-18	09/01/2016		81.4000 *	5.6000
Arsenic, total	ug/L	MW-18	03/21/2017		49.7000 *	5.6000
Arsenic, total	ug/L	MW-18	10/13/2017		50.1000 *	5.6000
Arsenic, total	ug/L	MW-18	03/09/2018		46.1000 *	5.6000
Arsenic, total	ug/L	MW-18	09/06/2018		74.4000 *	5.6000
Arsenic, total	ug/L	MW-18	03/07/2019		87.2000 *	5.6000
Arsenic, total	ug/L	MW-18	09/26/2019		99.4000 *	5.6000
Arsenic, total	ug/L	MW-18	04/02/2020		81.7000 *	5.6000
Arsenic, total	ug/L	MW-18	09/17/2020		34.8000 *	5.6000
Arsenic, total	ug/L	MW-18	03/25/2021		9.6000 *	5.6000
Arsenic, total	ug/L	MW-18	09/16/2021		36.0000 *	5.6000
Arsenic, total	ug/L	MW-18	03/16/2022		34.7000 *	5.6000
Arsenic, total	ug/L	MW-18	09/01/2022		24.1000 *	5.6000
Arsenic, total	ug/L	MW-18	03/24/2023		67.4000 *	5.6000
Arsenic, total	ug/L	MW-18	09/07/2023		26.9000 *	5.6000
Arsenic, total	ug/L	MW-18	03/18/2024		23.7000 *	5.6000
Arsenic, total	ug/L	MW-18	09/25/2024		43.6000 *	5.6000
Arsenic, total	ug/L	MW-18	03/10/2025		31.2000 *	5.6000
Arsenic, total	ug/L	MW-18	09/08/2025		40.3000 *	5.6000
Copper, total	ug/L	MW-18	04/19/2010		63.7000 *	11.6000
Copper, total	ug/L	MW-18	05/27/2010		16.0000 *	11.6000
Copper, total	ug/L	MW-18	07/28/2010		21.1000 *	11.6000
Copper, total	ug/L	MW-18	09/29/2010		138.0000 *	11.6000
Copper, total	ug/L	MW-18	11/03/2010		158.0000 *	11.6000
Copper, total	ug/L	MW-18	05/04/2011		8.0000 *	11.6000
Copper, total	ug/L	MW-18	10/11/2011	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	04/23/2012	ND	9.9000	11.6000
Copper, total	ug/L	MW-18	09/11/2012	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	04/04/2013	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	10/11/2013	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	04/23/2014	ND	4.0000	11.6000

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Copper, total	ug/L	MW-18	09/17/2014	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	04/28/2015	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	10/06/2015	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	04/23/2016	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	09/01/2016	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	03/21/2017	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	10/13/2017	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	03/09/2018	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	09/06/2018	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	03/07/2019	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	09/26/2019	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	04/02/2020	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	09/17/2020	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	03/25/2021	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	09/16/2021	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	03/16/2022	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	09/01/2022	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	03/24/2023	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	09/07/2023	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	03/18/2024	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	09/25/2024	ND	4.0000	11.6000
Copper, total	ug/L	MW-18	03/10/2025		16.2000 *	11.6000
Copper, total	ug/L	MW-18	09/08/2025	ND	5.0000	11.6000
Arsenic, total	ug/L	MW-20	04/19/2010		165.0000 *	5.6000
Arsenic, total	ug/L	MW-20	05/27/2010		144.0000 *	5.6000
Arsenic, total	ug/L	MW-20	07/28/2010		165.0000 *	5.6000
Arsenic, total	ug/L	MW-20	09/29/2010		86.8000 *	5.6000
Arsenic, total	ug/L	MW-20	11/03/2010		64.3000 *	5.6000
Arsenic, total	ug/L	MW-20	05/04/2011		47.4000 *	5.6000
Arsenic, total	ug/L	MW-20	10/11/2011		60.7000 *	5.6000
Arsenic, total	ug/L	MW-20	04/24/2012		44.9000 *	5.6000
Arsenic, total	ug/L	MW-20	09/11/2012		59.8000 *	5.6000
Arsenic, total	ug/L	MW-20	04/05/2013		37.7000 *	5.6000
Arsenic, total	ug/L	MW-20	10/11/2013		61.7000 *	5.6000
Arsenic, total	ug/L	MW-20	04/23/2014		55.2000 *	5.6000
Arsenic, total	ug/L	MW-20	09/18/2014		75.2000 *	5.6000
Arsenic, total	ug/L	MW-20	04/28/2015		45.5000 *	5.6000
Arsenic, total	ug/L	MW-20	10/06/2015		81.7000 *	5.6000
Arsenic, total	ug/L	MW-20	04/23/2016		81.5000 *	5.6000
Arsenic, total	ug/L	MW-20	09/01/2016		77.1000 *	5.6000
Arsenic, total	ug/L	MW-20	03/21/2017		79.1000 *	5.6000
Arsenic, total	ug/L	MW-20	10/13/2017		96.8000 *	5.6000
Arsenic, total	ug/L	MW-20	03/09/2018		83.4000 *	5.6000
Arsenic, total	ug/L	MW-20	09/06/2018		99.6000 *	5.6000
Arsenic, total	ug/L	MW-20	03/07/2019		78.4000 *	5.6000
Arsenic, total	ug/L	MW-20	09/26/2019		83.6000 *	5.6000
Arsenic, total	ug/L	MW-20	04/02/2020		65.2000 *	5.6000
Arsenic, total	ug/L	MW-20	09/17/2020		87.1000 *	5.6000
Arsenic, total	ug/L	MW-20	03/25/2021		106.0000 *	5.6000
Arsenic, total	ug/L	MW-20	09/16/2021		87.8000 *	5.6000
Arsenic, total	ug/L	MW-20	03/16/2022		127.0000 *	5.6000
Arsenic, total	ug/L	MW-20	09/01/2022		133.0000 *	5.6000
Arsenic, total	ug/L	MW-20	03/24/2023		94.6000 *	5.6000
Arsenic, total	ug/L	MW-20	09/07/2023		83.4000 *	5.6000
Arsenic, total	ug/L	MW-20	03/18/2024		112.0000 *	5.6000
Arsenic, total	ug/L	MW-20	09/25/2024		44.1000 *	5.6000
Arsenic, total	ug/L	MW-20	03/10/2025		54.9000 *	5.6000
Arsenic, total	ug/L	MW-20	09/08/2025		59.7000 *	5.6000
Barium, total	ug/L	MW-20	04/19/2010		3790.0000 *	735.5741
Barium, total	ug/L	MW-20	05/27/2010		4800.0000 *	735.5741
Barium, total	ug/L	MW-20	07/28/2010		4410.0000 *	735.5741
Barium, total	ug/L	MW-20	09/29/2010		3800.0000 *	735.5741
Barium, total	ug/L	MW-20	11/03/2010		3500.0000 *	735.5741
Barium, total	ug/L	MW-20	05/04/2011		2990.0000 *	735.5741
Barium, total	ug/L	MW-20	10/11/2011		3010.0000 *	735.5741
Barium, total	ug/L	MW-20	04/24/2012		1850.0000 *	735.5741
Barium, total	ug/L	MW-20	09/11/2012		2060.0000 *	735.5741
Barium, total	ug/L	MW-20	04/05/2013		2910.0000 *	735.5741
Barium, total	ug/L	MW-20	10/11/2013		2470.0000 *	735.5741
Barium, total	ug/L	MW-20	04/23/2014		1830.0000 *	735.5741
Barium, total	ug/L	MW-20	09/18/2014		2370.0000 *	735.5741

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Barium, total	ug/L	MW-20	04/28/2015		2390.0000 *	735.5741
Barium, total	ug/L	MW-20	10/06/2015		2490.0000 *	735.5741
Barium, total	ug/L	MW-20	04/23/2016		2260.0000 *	735.5741
Barium, total	ug/L	MW-20	09/01/2016		2140.0000 *	735.5741
Barium, total	ug/L	MW-20	03/21/2017		2140.0000 *	735.5741
Barium, total	ug/L	MW-20	10/13/2017		2340.0000 *	735.5741
Barium, total	ug/L	MW-20	03/09/2018		2010.0000 *	735.5741
Barium, total	ug/L	MW-20	09/06/2018		2360.0000 *	735.5741
Barium, total	ug/L	MW-20	03/07/2019		2100.0000 *	735.5741
Barium, total	ug/L	MW-20	09/26/2019		2350.0000 *	735.5741
Barium, total	ug/L	MW-20	04/02/2020		2300.0000 *	735.5741
Barium, total	ug/L	MW-20	09/17/2020		1970.0000 *	735.5741
Barium, total	ug/L	MW-20	03/25/2021		1970.0000 *	735.5741
Barium, total	ug/L	MW-20	09/16/2021		2160.0000 *	735.5741
Barium, total	ug/L	MW-20	03/16/2022		1890.0000 *	735.5741
Barium, total	ug/L	MW-20	09/01/2022		2020.0000 *	735.5741
Barium, total	ug/L	MW-20	03/24/2023		2000.0000 *	735.5741
Barium, total	ug/L	MW-20	09/07/2023		1810.0000 *	735.5741
Barium, total	ug/L	MW-20	03/18/2024		2110.0000 *	735.5741
Barium, total	ug/L	MW-20	09/25/2024		1950.0000 *	735.5741
Barium, total	ug/L	MW-20	03/10/2025		1640.0000 *	735.5741
Barium, total	ug/L	MW-20	09/08/2025		1860.0000 *	735.5741
Copper, total	ug/L	MW-20	04/19/2010		169.0000 *	11.6000
Copper, total	ug/L	MW-20	05/27/2010		112.0000 *	11.6000
Copper, total	ug/L	MW-20	07/28/2010		117.0000 *	11.6000
Copper, total	ug/L	MW-20	09/29/2010		58.0000 *	11.6000
Copper, total	ug/L	MW-20	11/03/2010		23.4000 *	11.6000
Copper, total	ug/L	MW-20	05/04/2011		25.2000 *	11.6000
Copper, total	ug/L	MW-20	10/11/2011		6.1000	11.6000
Copper, total	ug/L	MW-20	04/24/2012	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	09/11/2012	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	04/05/2013	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	10/11/2013	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	04/23/2014		5.2000	11.6000
Copper, total	ug/L	MW-20	09/18/2014	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	04/28/2015	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	10/06/2015	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	04/23/2016	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	09/01/2016	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	03/21/2017	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	10/13/2017	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	03/09/2018	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	09/06/2018	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	03/07/2019	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	09/26/2019	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	04/02/2020	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	09/17/2020	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	03/25/2021	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	09/16/2021	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	03/16/2022	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	09/01/2022	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	03/24/2023	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	09/07/2023	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	03/18/2024	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	09/25/2024	ND	4.0000	11.6000
Copper, total	ug/L	MW-20	03/10/2025		26.4000 *	11.6000
Copper, total	ug/L	MW-20	09/08/2025	ND	5.0000	11.6000
Cadmium, total	ug/L	MW-3	04/16/2008	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-3	06/17/2008	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-3	08/20/2008	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-3	10/16/2008		1.1000	1.4000
Cadmium, total	ug/L	MW-3	12/04/2008	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-3	03/16/2009	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-3	09/24/2009	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-3	04/19/2010	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-3	09/29/2010	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-3	05/03/2011	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	10/11/2011	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	04/23/2012	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	09/10/2012	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	04/04/2013	ND	0.8000	1.4000

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Cadmium, total	ug/L	MW-3	10/10/2013	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	04/22/2014	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	09/17/2014	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	04/28/2015	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	10/06/2015	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	04/23/2016	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	09/01/2016	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	03/21/2017	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	10/13/2017	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	03/09/2018	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	09/06/2018	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	03/07/2019	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	09/26/2019	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	04/02/2020	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	09/17/2020	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	03/25/2021	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	09/16/2021	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	03/16/2022	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	09/01/2022	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	03/24/2023	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	09/07/2023	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	03/18/2024	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	09/25/2024	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-3	03/10/2025		2.1000 *	1.4000
Cadmium, total	ug/L	MW-3	09/08/2025	ND	0.2000	1.4000
Arsenic, total	ug/L	MW-7	04/16/2008	ND	5.0000	5.6000
Arsenic, total	ug/L	MW-7	06/17/2008	ND	5.0000	5.6000
Arsenic, total	ug/L	MW-7	08/20/2008	ND	5.0000	5.6000
Arsenic, total	ug/L	MW-7	10/16/2008	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	12/04/2008	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	03/16/2009	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	09/24/2009	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	04/19/2010	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	09/29/2010	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	05/03/2011		4.3000	5.6000
Arsenic, total	ug/L	MW-7	10/10/2011	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	04/23/2012		4.9000	5.6000
Arsenic, total	ug/L	MW-7	09/10/2012	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	04/04/2013	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	10/10/2013	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	04/22/2014	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	09/17/2014	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	04/28/2015	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	10/06/2015	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	04/23/2016	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	09/01/2016	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	03/22/2017	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	10/13/2017	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	03/09/2018	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	09/06/2018	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	03/07/2019	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	09/26/2019		8.2000 *	5.6000
Arsenic, total	ug/L	MW-7	12/17/2019		4.7000	5.6000
Arsenic, total	ug/L	MW-7	04/02/2020	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	09/17/2020		6.9000 *	5.6000
Arsenic, total	ug/L	MW-7	12/03/2020		7.2000 *	5.6000
Arsenic, total	ug/L	MW-7	03/25/2021	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	09/16/2021	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	03/16/2022		4.3000	5.6000
Arsenic, total	ug/L	MW-7	09/01/2022		5.7000 *	5.6000
Arsenic, total	ug/L	MW-7	03/24/2023	ND	4.0000	5.6000
Arsenic, total	ug/L	MW-7	09/07/2023		8.8000 *	5.6000
Arsenic, total	ug/L	MW-7	03/18/2024		5.4000	5.6000
Arsenic, total	ug/L	MW-7	09/25/2024		9.0000 *	5.6000
Arsenic, total	ug/L	MW-7	03/10/2025		6.6000 *	5.6000
Arsenic, total	ug/L	MW-7	09/08/2025		8.4000 *	5.6000
Cadmium, total	ug/L	MW-7	04/16/2008	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-7	06/17/2008	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-7	08/20/2008	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-7	10/16/2008	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-7	12/04/2008	ND	1.0000	1.4000

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

**Historical Downgradient Data for Constituent-Well Combinations
that Failed the Current Statistical Evaluation or
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Cadmium, total	ug/L	MW-7	03/16/2009	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-7	09/24/2009	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-7	04/19/2010	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-7	09/29/2010	ND	1.0000	1.4000
Cadmium, total	ug/L	MW-7	05/03/2011	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	10/10/2011	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	04/23/2012	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	09/10/2012	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	04/04/2013	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	10/10/2013	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	04/22/2014	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	09/17/2014	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	04/28/2015	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	10/06/2015	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	04/23/2016	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	09/01/2016	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	03/22/2017	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	10/13/2017	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	03/09/2018	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	09/06/2018	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	03/07/2019	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	09/26/2019	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	04/02/2020	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	09/17/2020	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	03/25/2021	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	09/16/2021	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	03/16/2022	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	09/01/2022	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	03/24/2023	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	09/07/2023	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	03/18/2024	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	09/25/2024	ND	0.8000	1.4000
Cadmium, total	ug/L	MW-7	03/10/2025		1.7000 *	1.4000
Cadmium, total	ug/L	MW-7	09/08/2025	ND	0.2000	1.4000

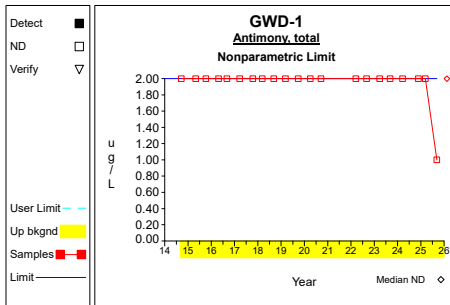
* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

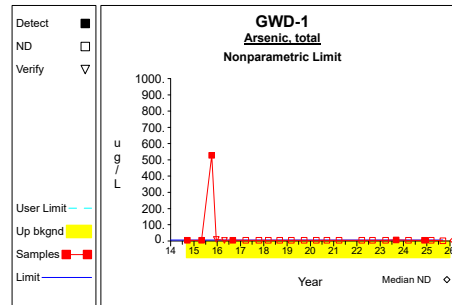
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

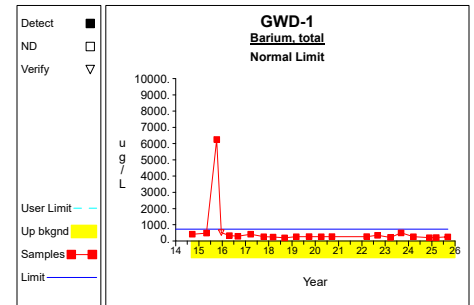
Up vs. Down Prediction Limits



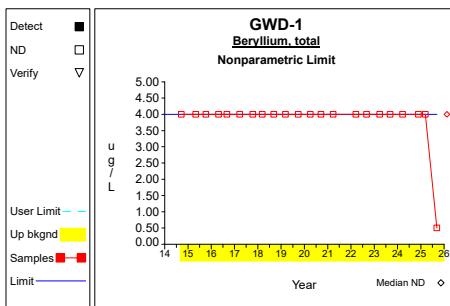
Graph 1



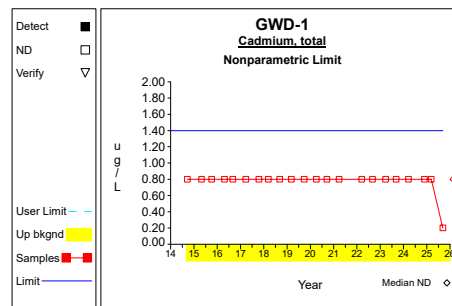
Graph 2



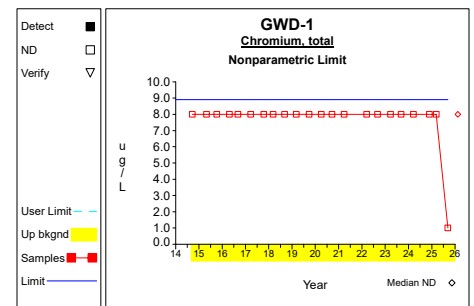
Graph 3



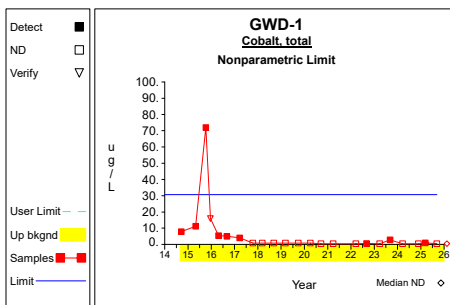
Graph 4



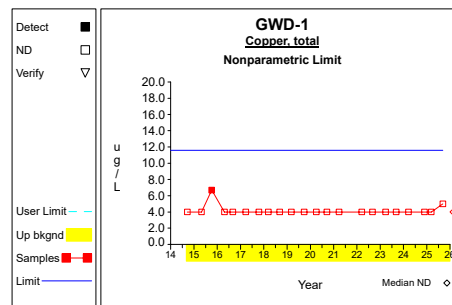
Graph 5



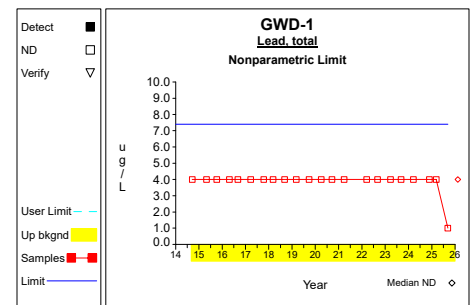
Graph 6



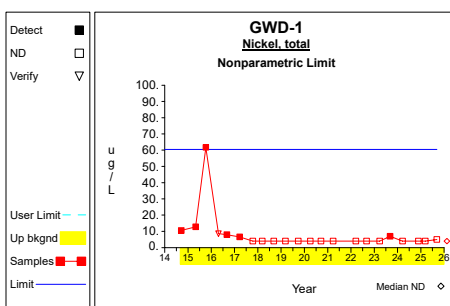
Graph 7



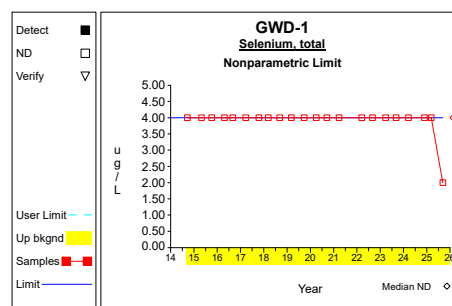
Graph 8



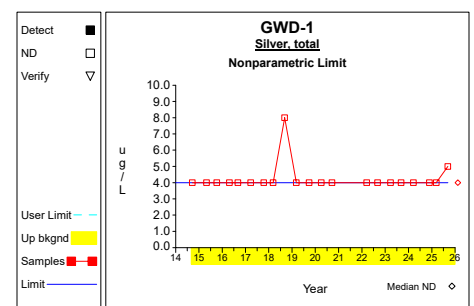
Graph 9



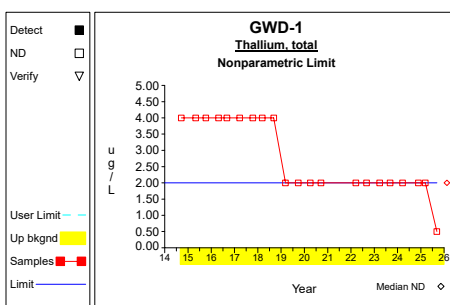
Graph 10



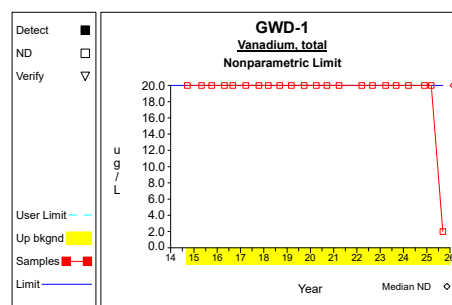
Graph 11



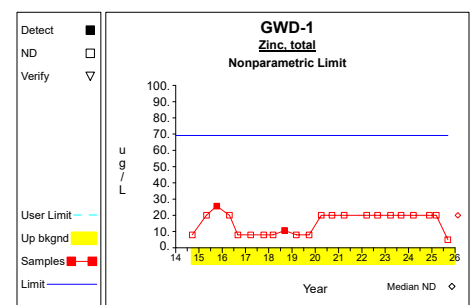
Graph 12



Graph 13

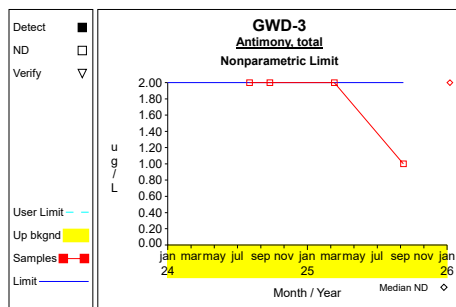


Graph 14

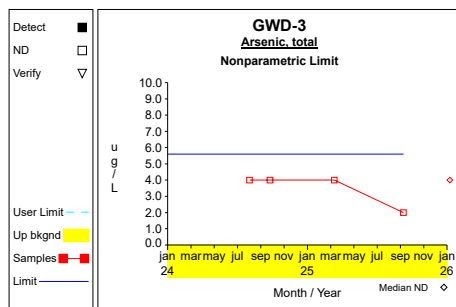


Graph 15

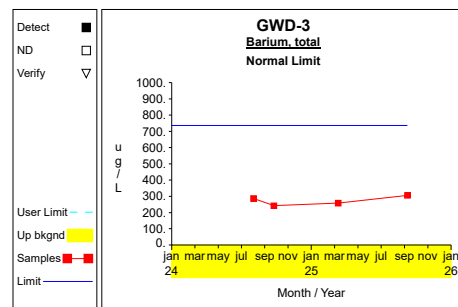
Up vs. Down Prediction Limits



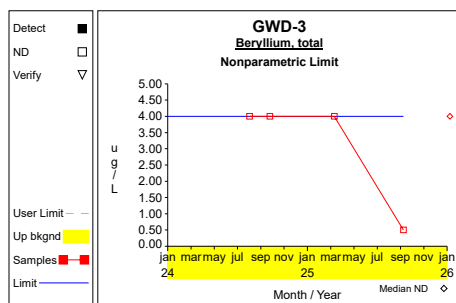
Graph 16



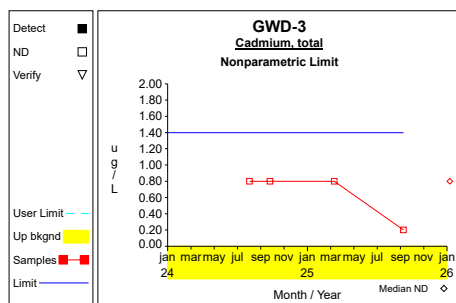
Graph 17



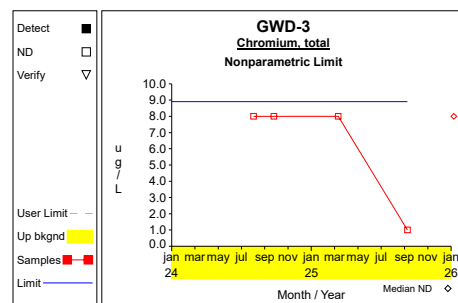
Graph 18



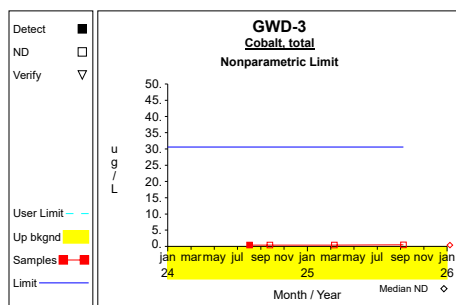
Graph 19



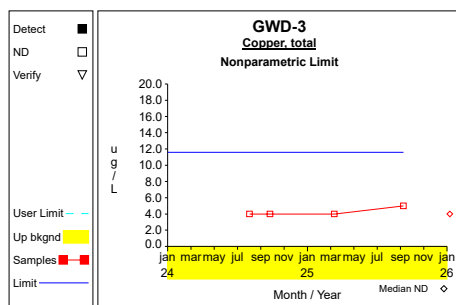
Graph 20



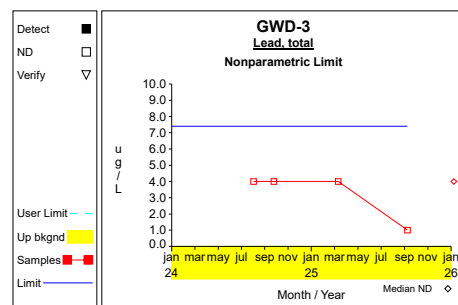
Graph 21



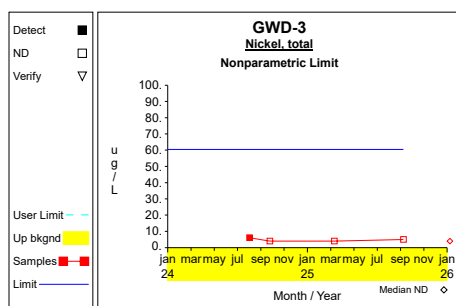
Graph 22



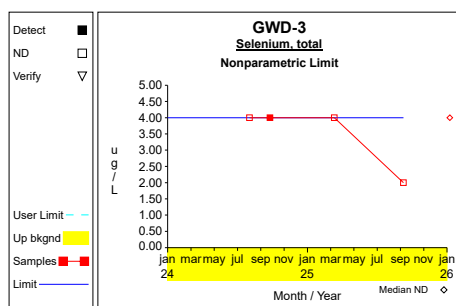
Graph 23



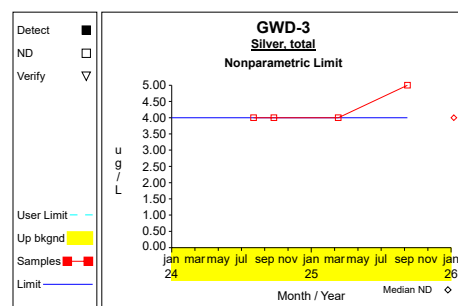
Graph 24



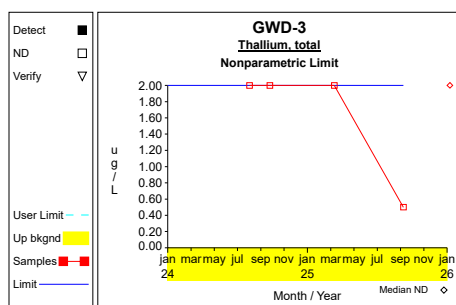
Graph 25



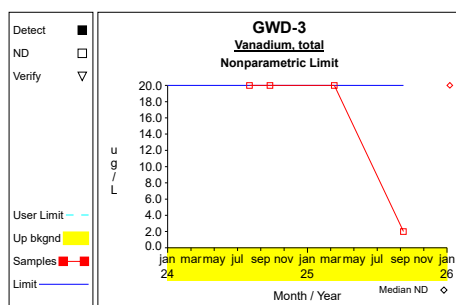
Graph 26



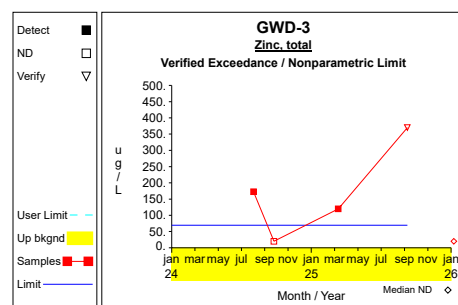
Graph 27



Graph 28

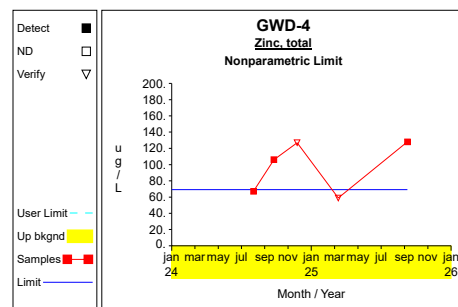
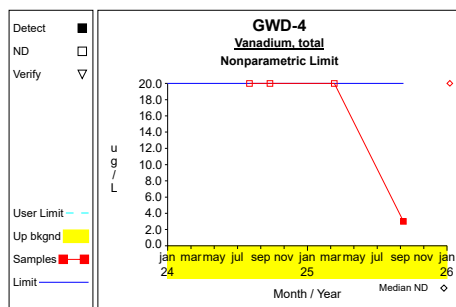
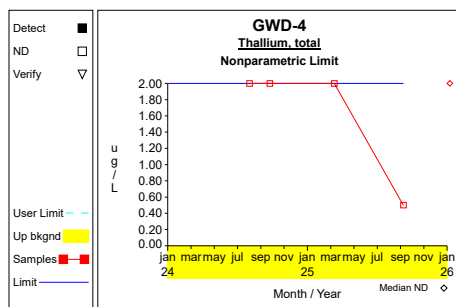
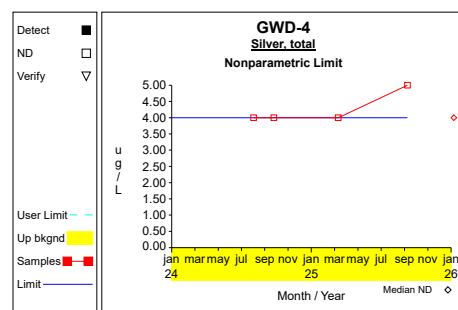
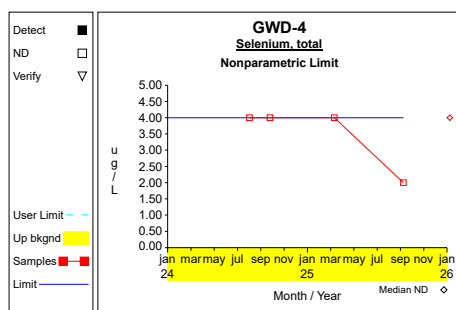
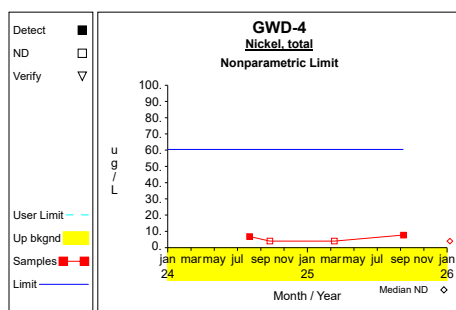
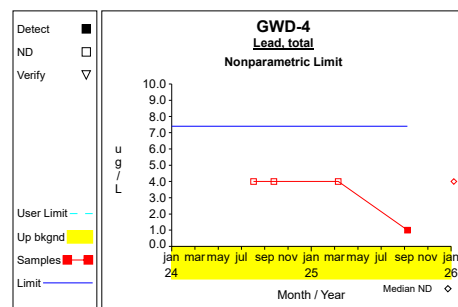
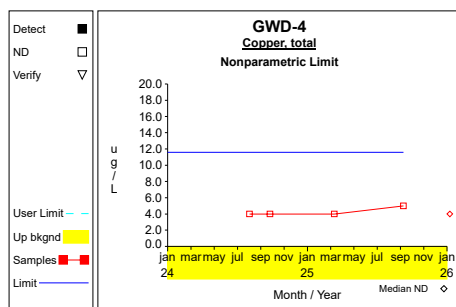
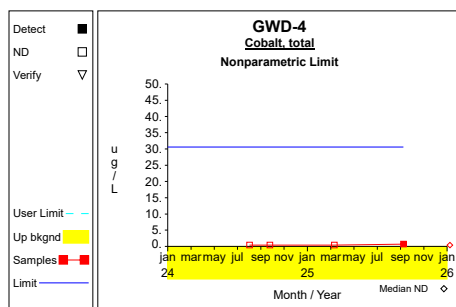
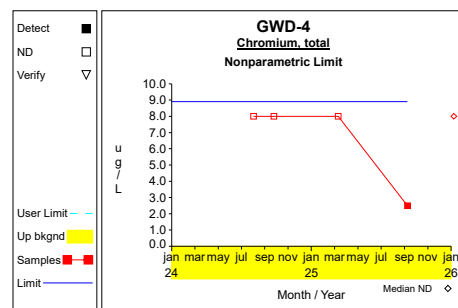
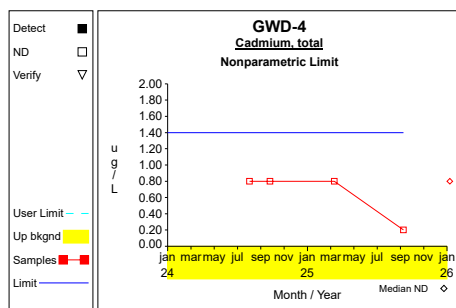
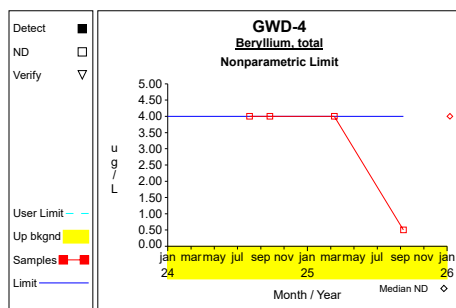
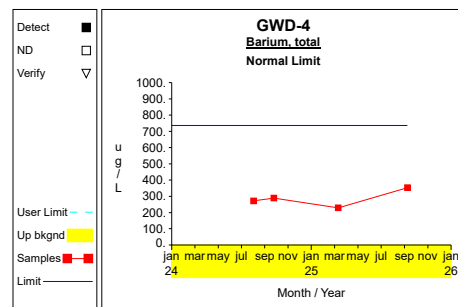
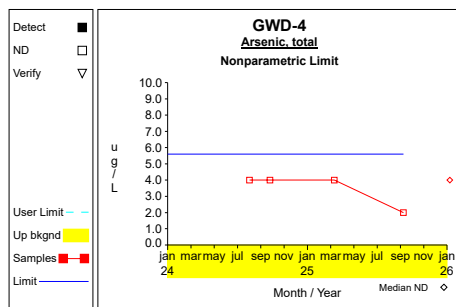
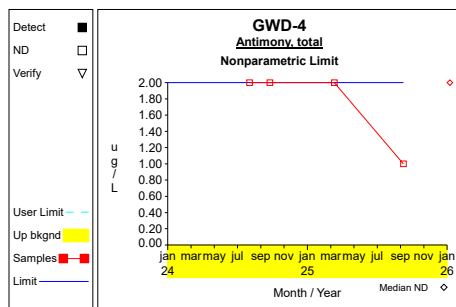


Graph 29

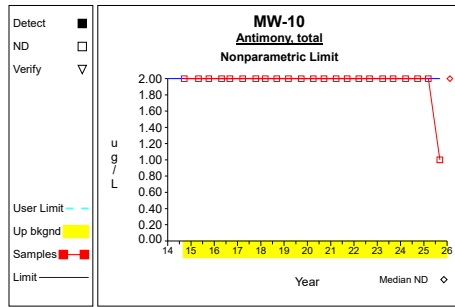


Graph 30

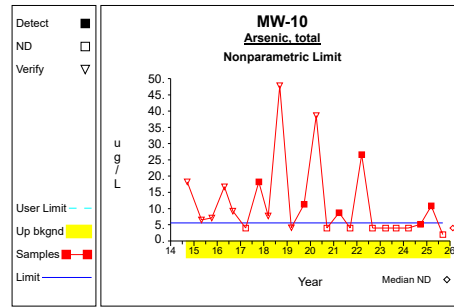
Up vs. Down Prediction Limits



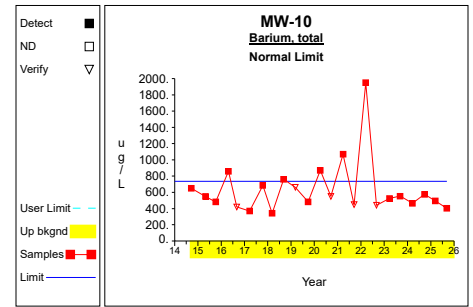
Up vs. Down Prediction Limits



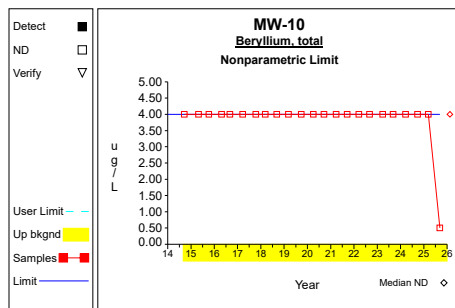
Graph 46



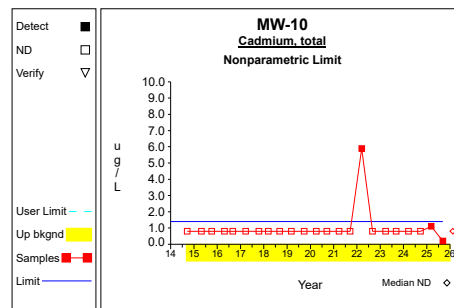
Graph 47



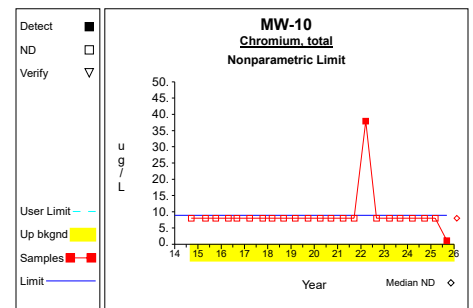
Graph 48



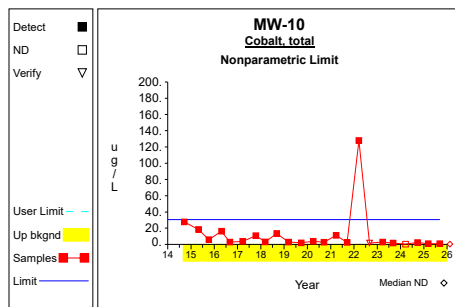
Graph 49



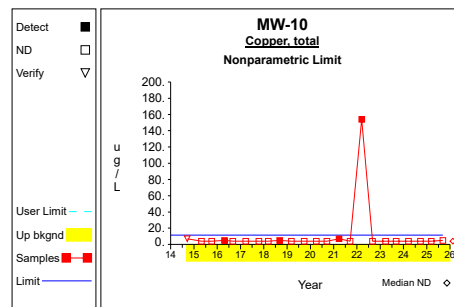
Graph 50



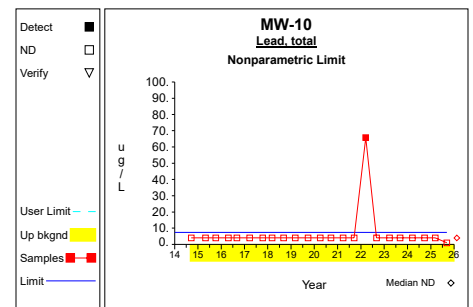
Graph 51



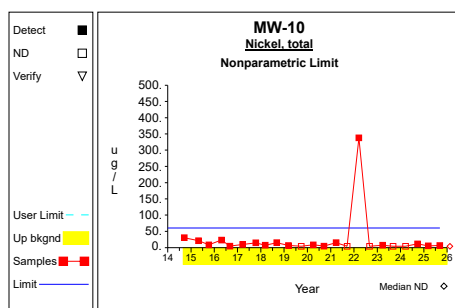
Graph 52



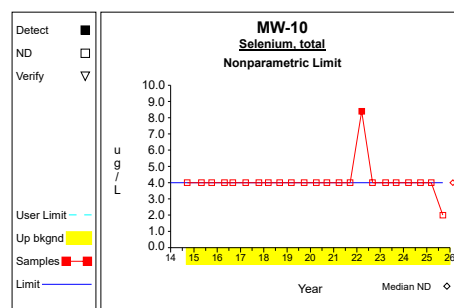
Graph 53



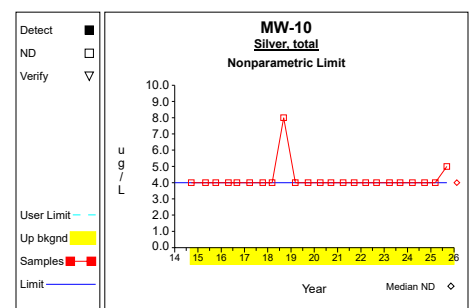
Graph 54



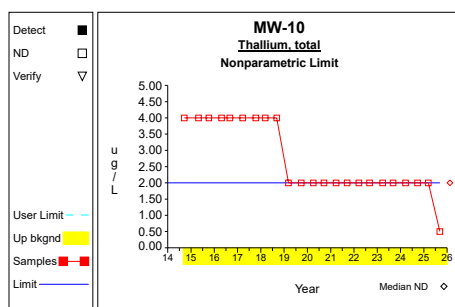
Graph 55



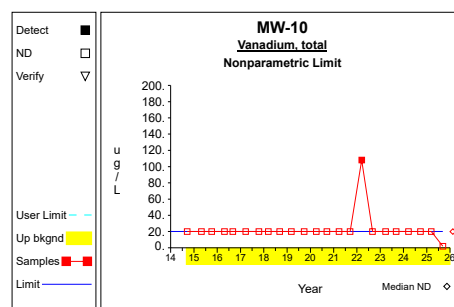
Graph 56



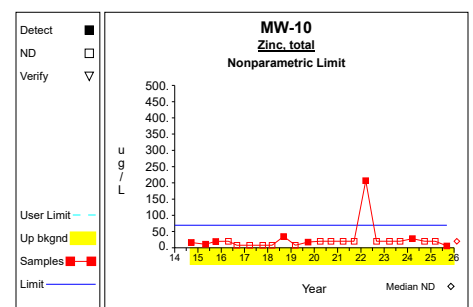
Graph 57



Graph 58

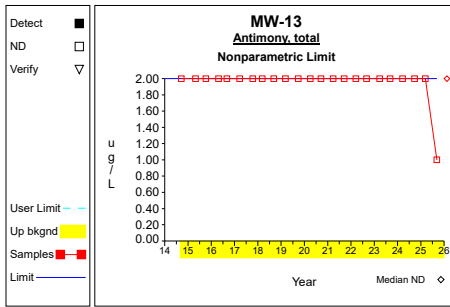


Graph 59

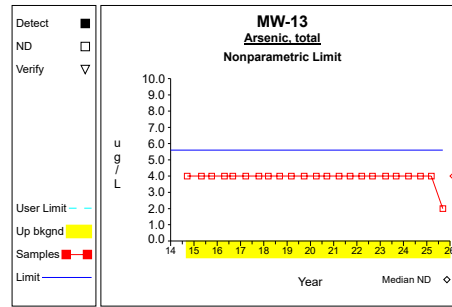


Graph 60

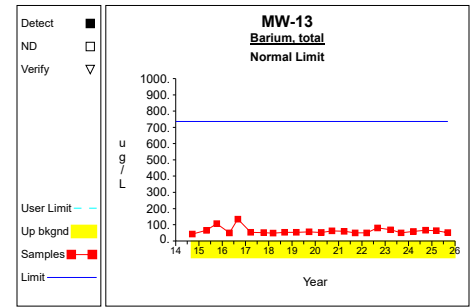
Up vs. Down Prediction Limits



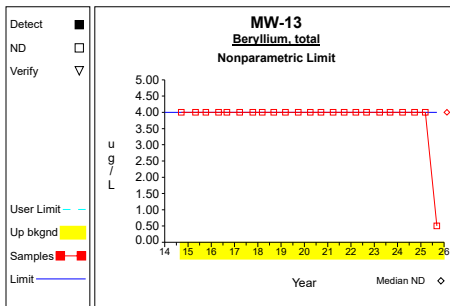
Graph 61



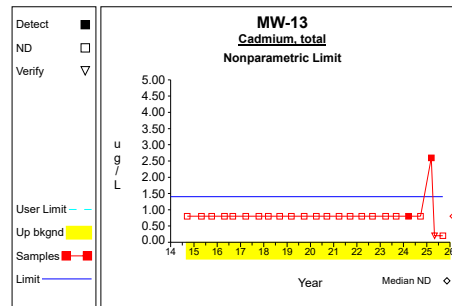
Graph 62



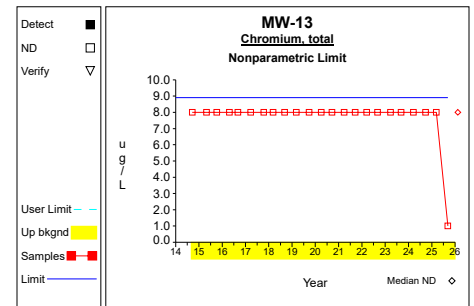
Graph 63



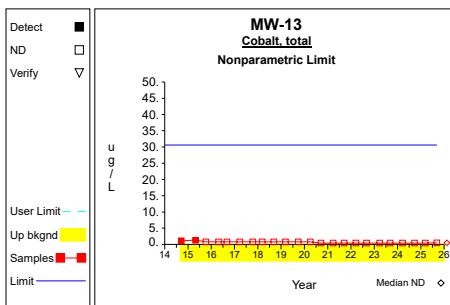
Graph 64



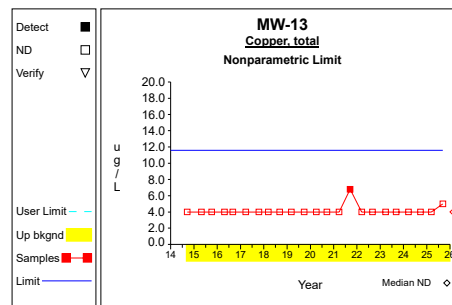
Graph 65



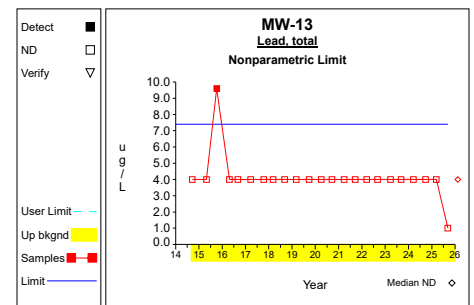
Graph 66



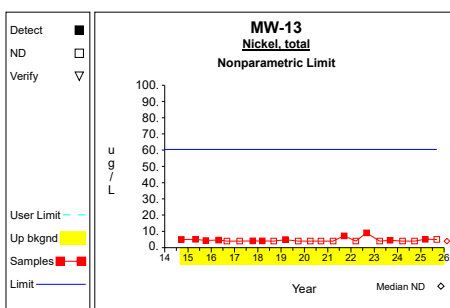
Graph 67



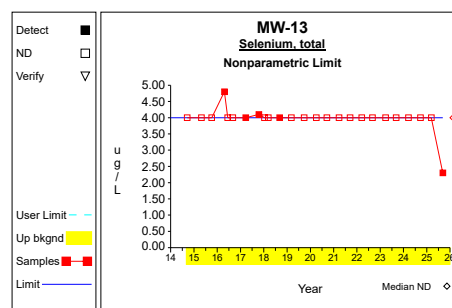
Graph 68



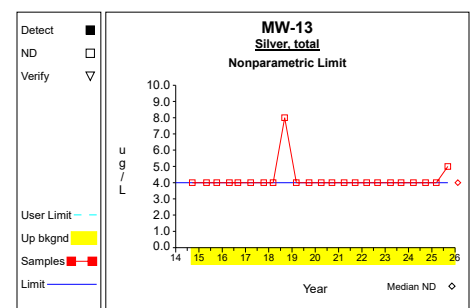
Graph 69



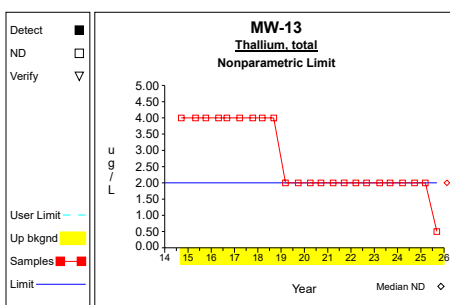
Graph 70



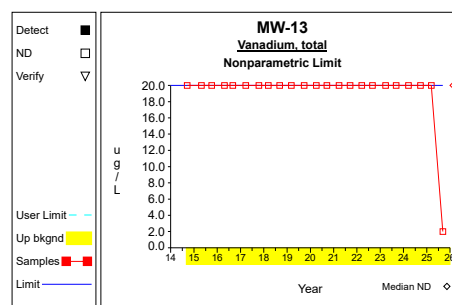
Graph 71



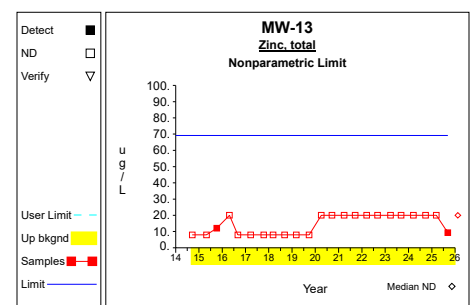
Graph 72



Graph 73

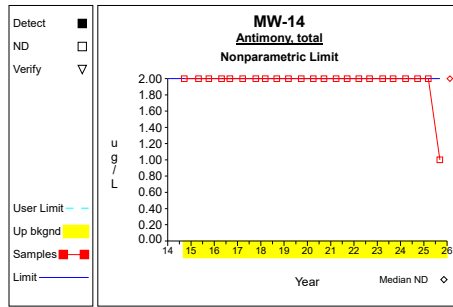


Graph 74

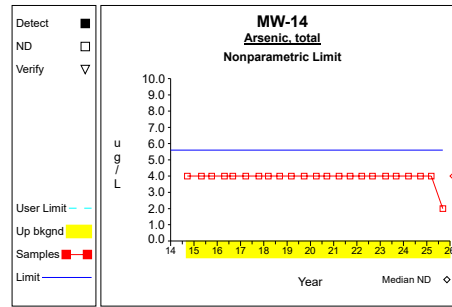


Graph 75

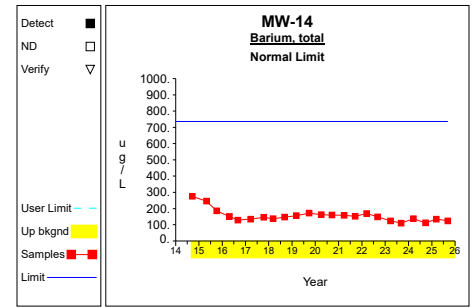
Up vs. Down Prediction Limits



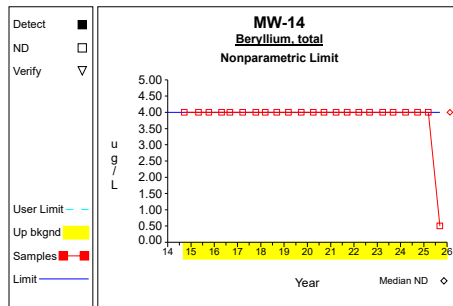
Graph 76



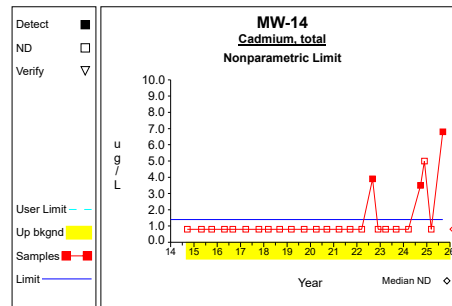
Graph 77



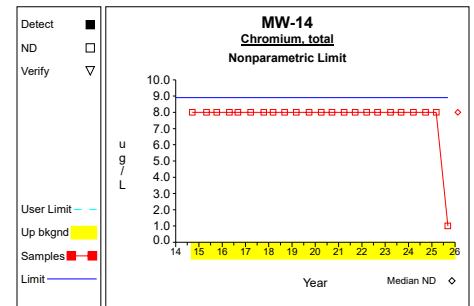
Graph 78



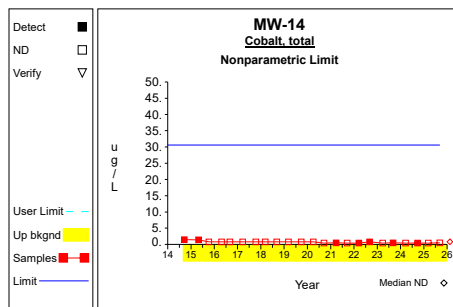
Graph 79



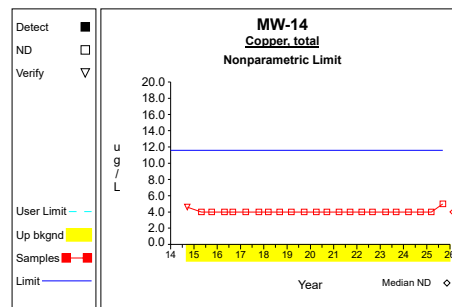
Graph 80



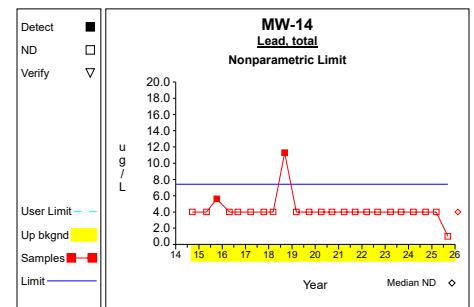
Graph 81



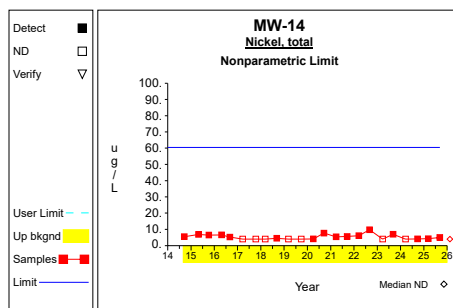
Graph 82



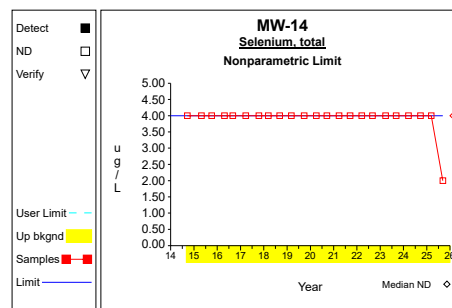
Graph 83



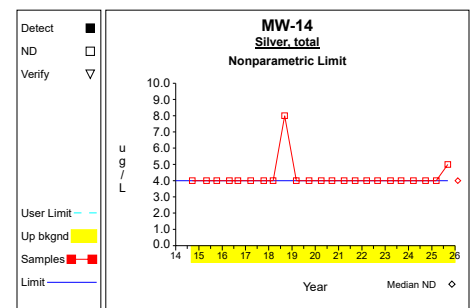
Graph 84



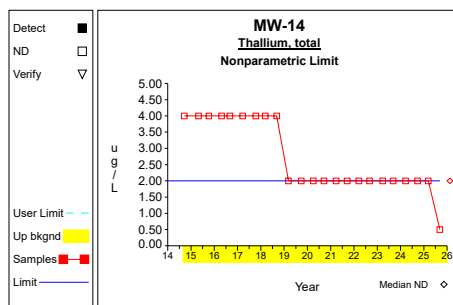
Graph 85



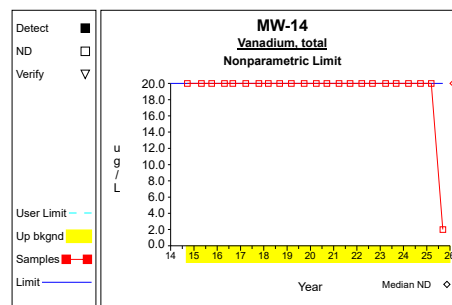
Graph 86



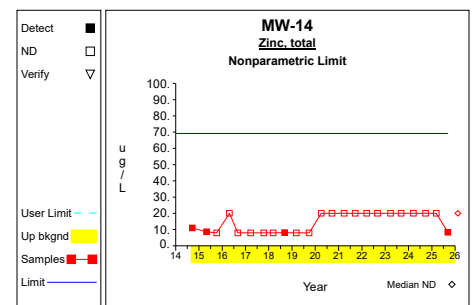
Graph 87



Graph 88

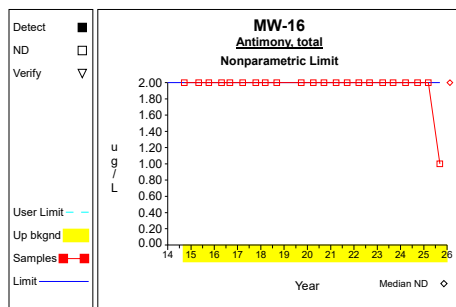


Graph 89

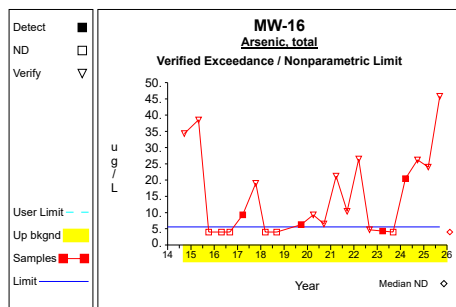


Graph 90

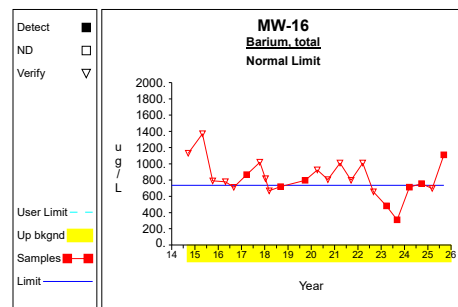
Up vs. Down Prediction Limits



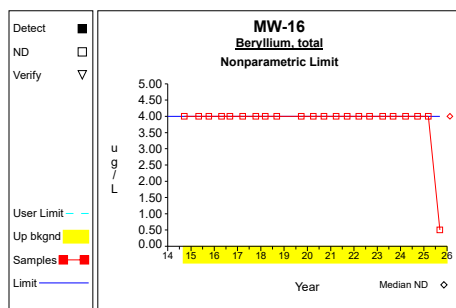
Graph 91



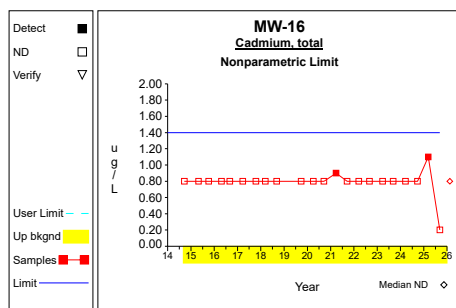
Graph 92



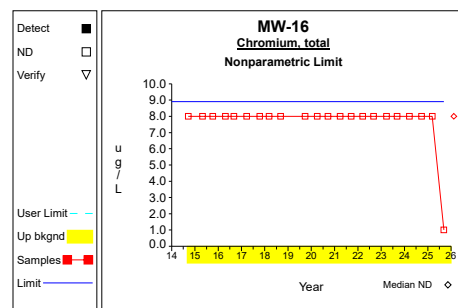
Graph 93



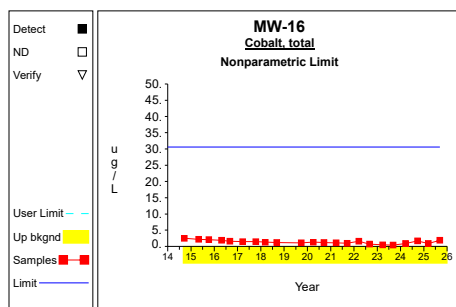
Graph 94



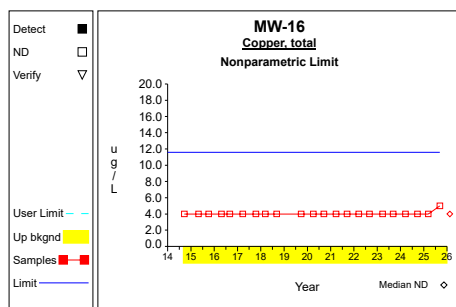
Graph 95



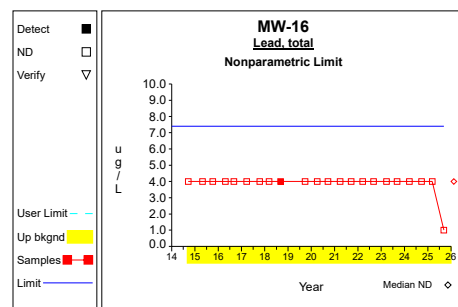
Graph 96



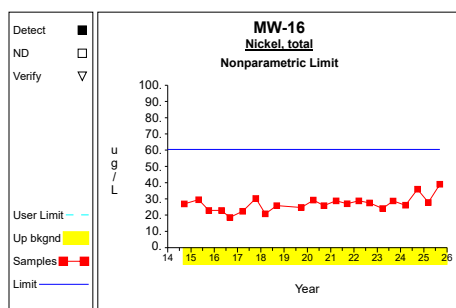
Graph 97



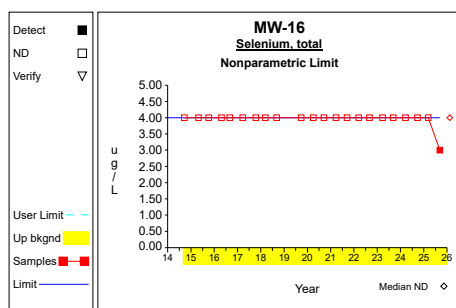
Graph 98



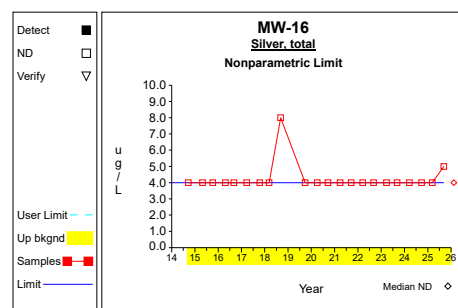
Graph 99



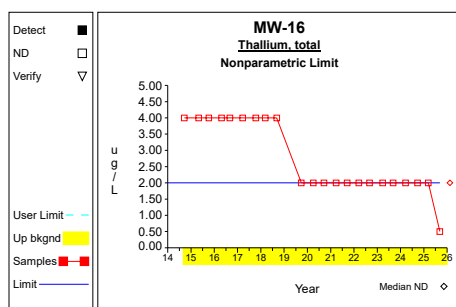
Graph 100



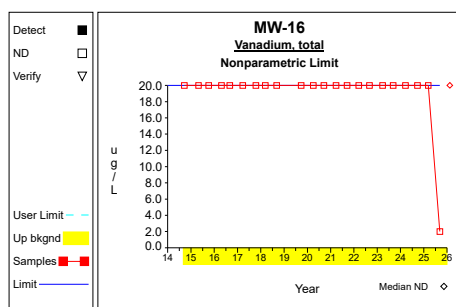
Graph 101



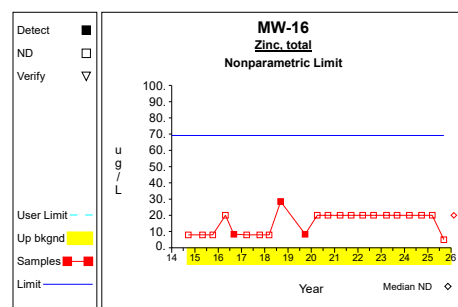
Graph 102



Graph 103

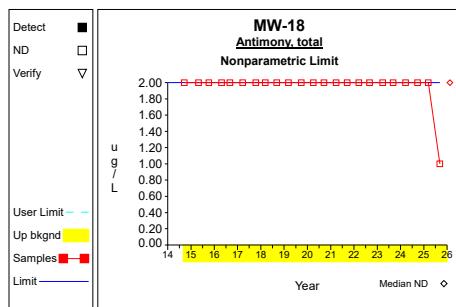


Graph 104

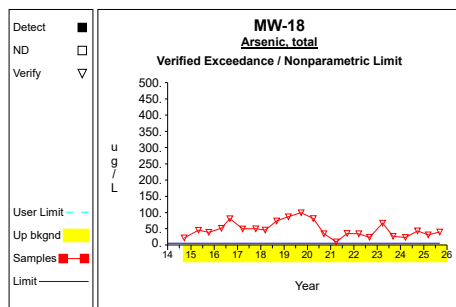


Graph 105

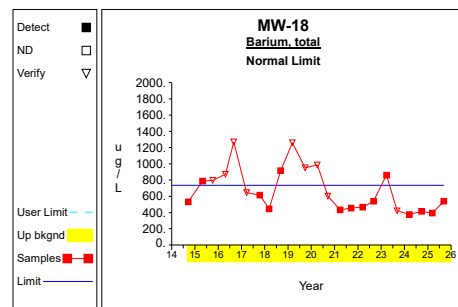
Up vs. Down Prediction Limits



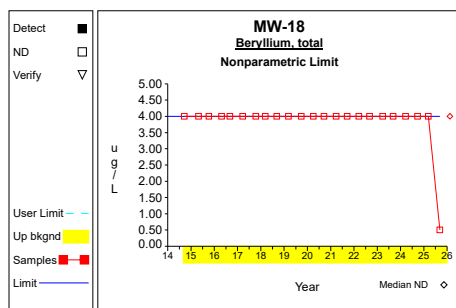
Graph 106



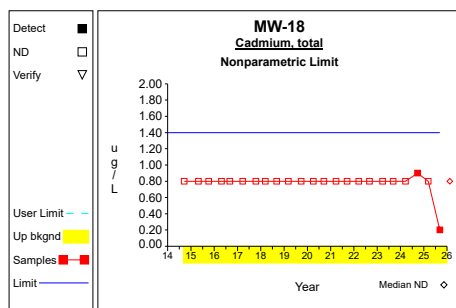
Graph 107



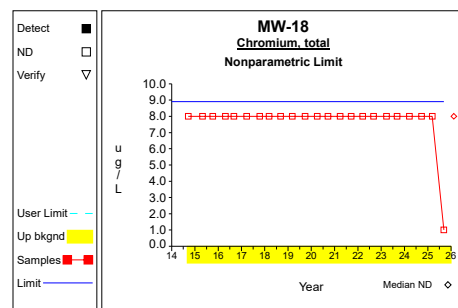
Graph 108



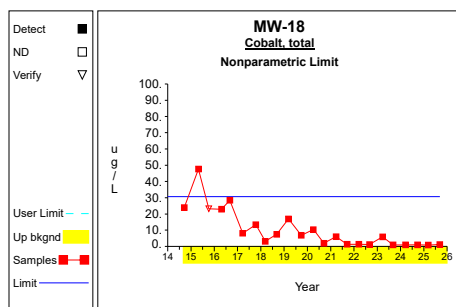
Graph 109



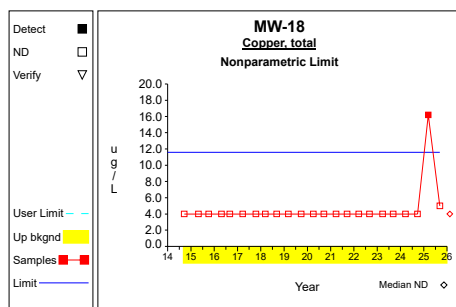
Graph 110



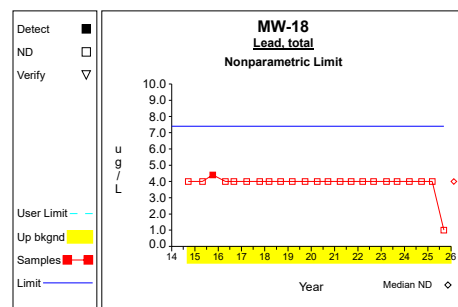
Graph 111



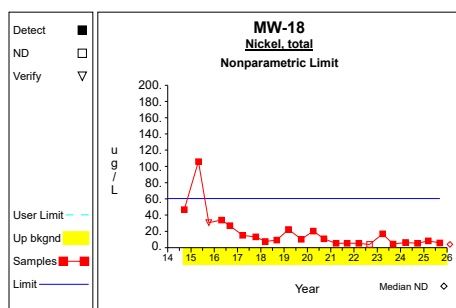
Graph 112



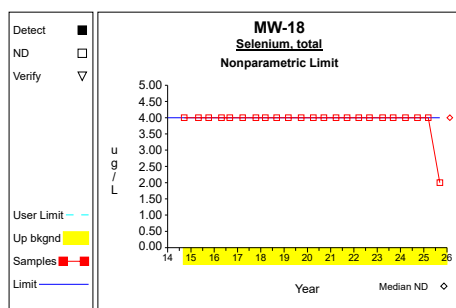
Graph 113



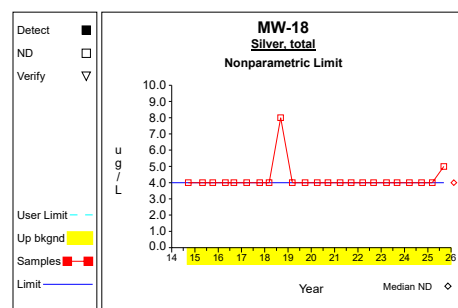
Graph 114



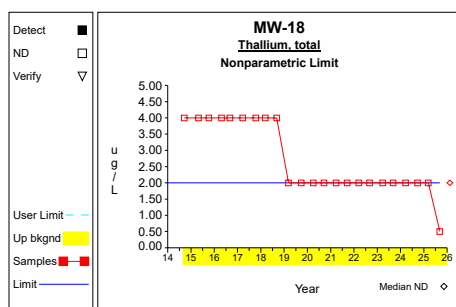
Graph 115



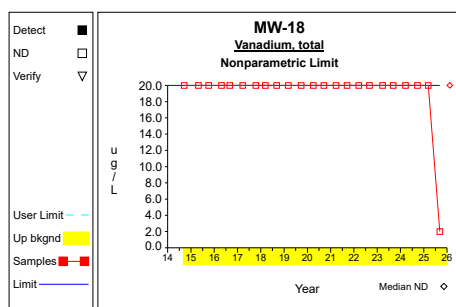
Graph 116



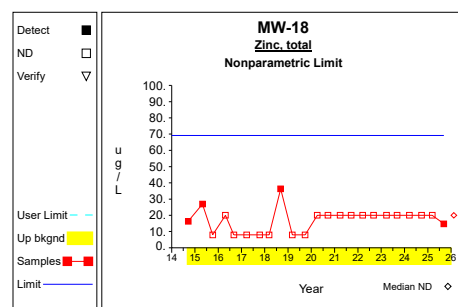
Graph 117



Graph 118

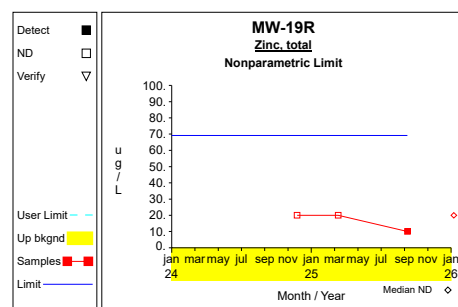
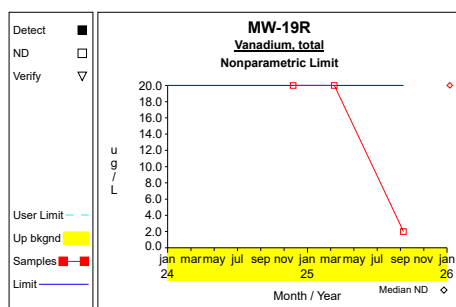
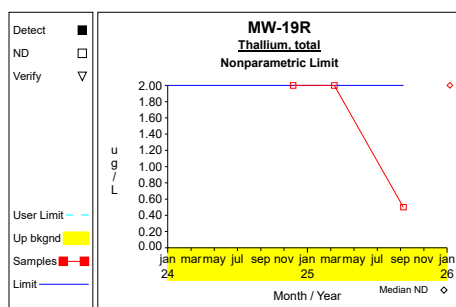
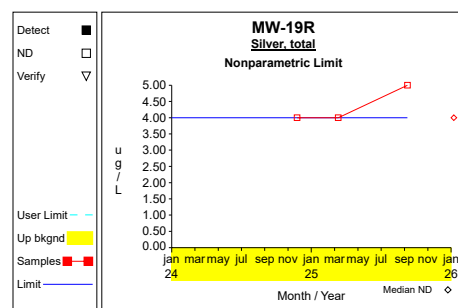
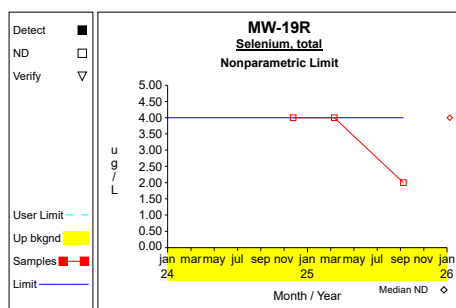
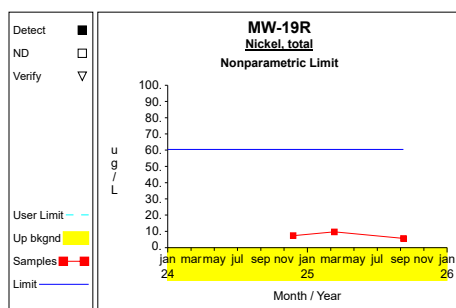
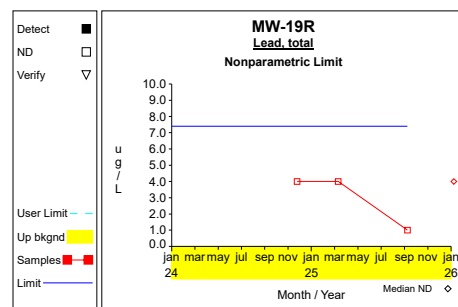
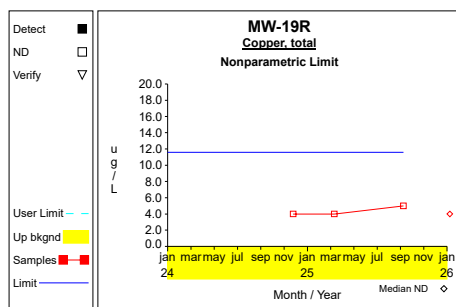
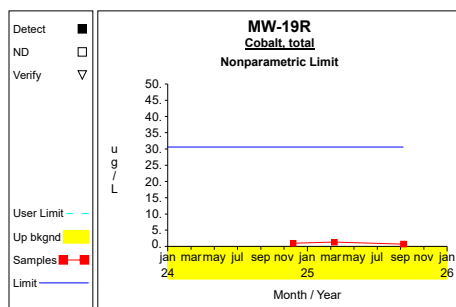
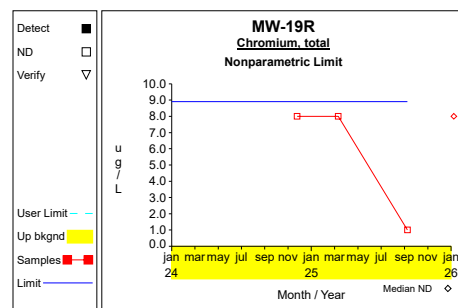
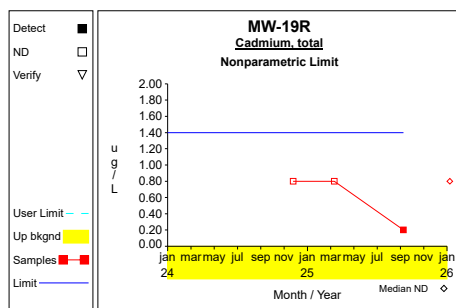
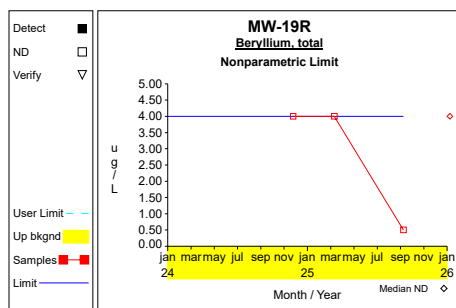
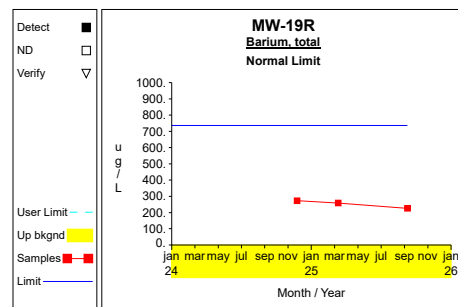
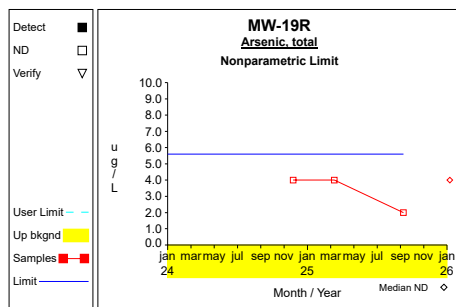
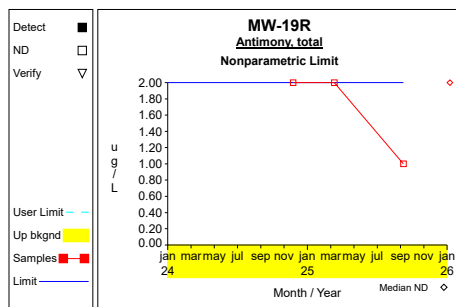


Graph 119

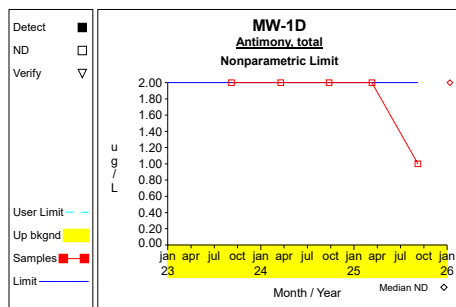


Graph 120

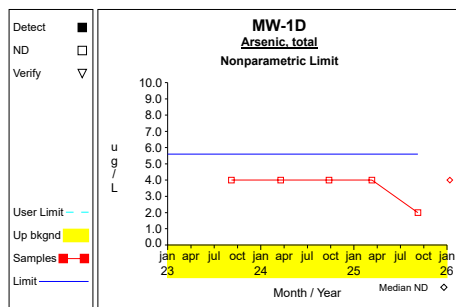
Up vs. Down Prediction Limits



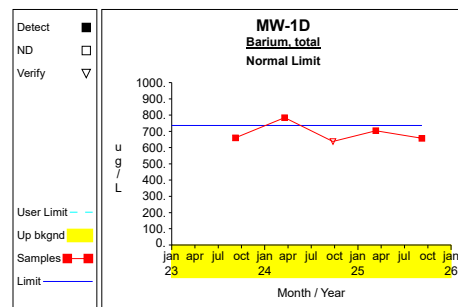
Up vs. Down Prediction Limits



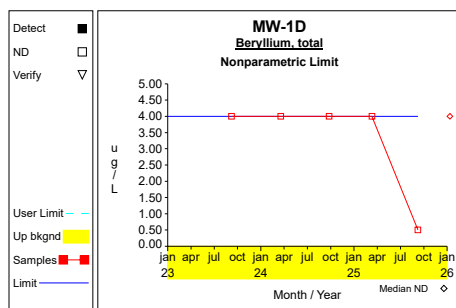
Graph 136



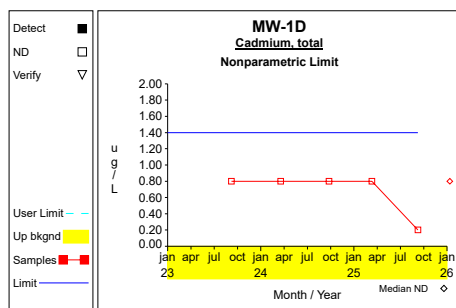
Graph 137



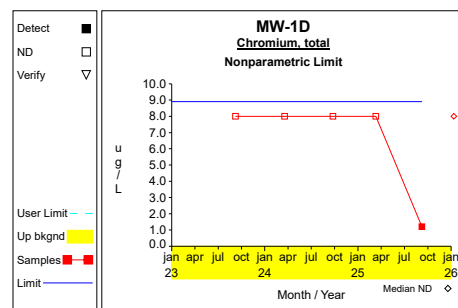
Graph 138



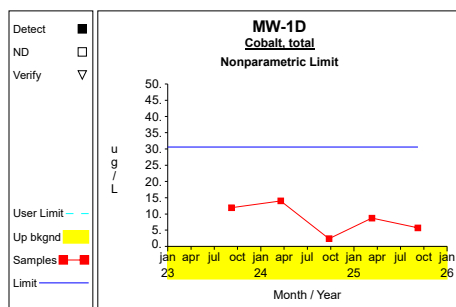
Graph 139



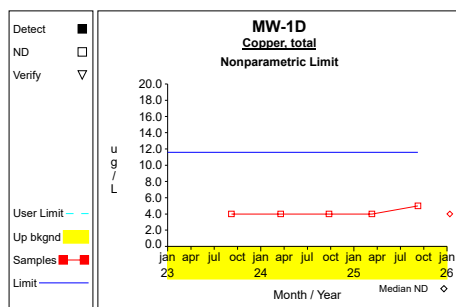
Graph 140



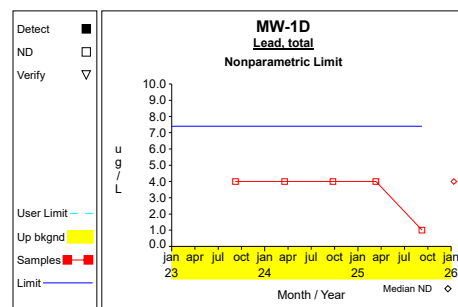
Graph 141



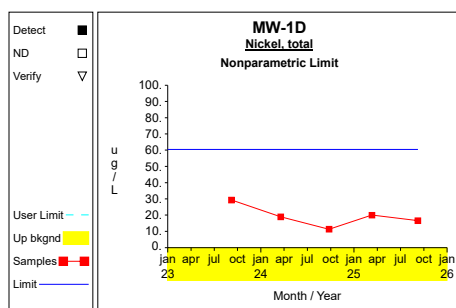
Graph 142



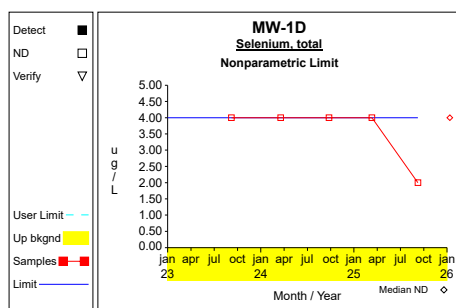
Graph 143



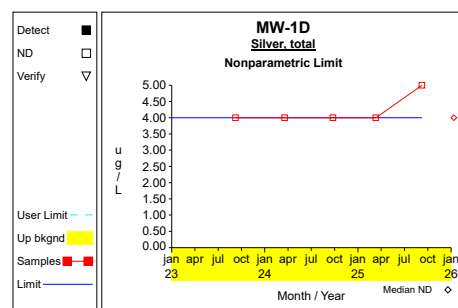
Graph 144



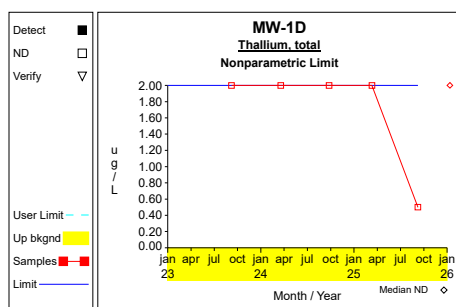
Graph 145



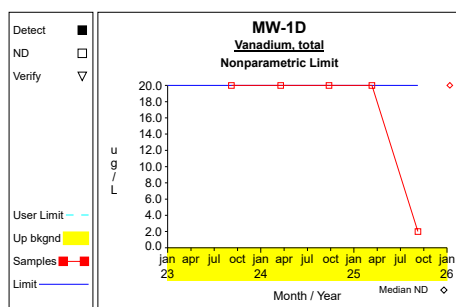
Graph 146



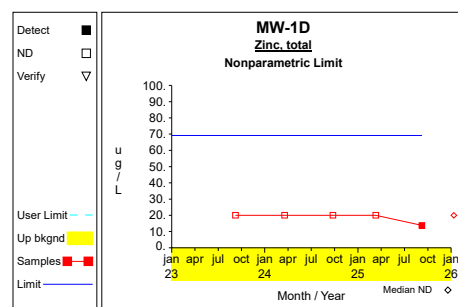
Graph 147



Graph 148

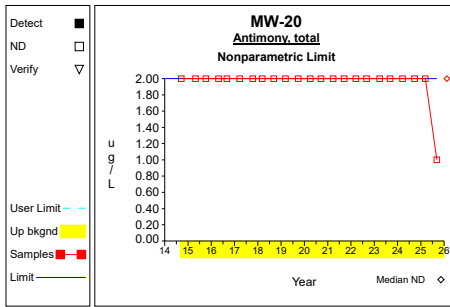


Graph 149

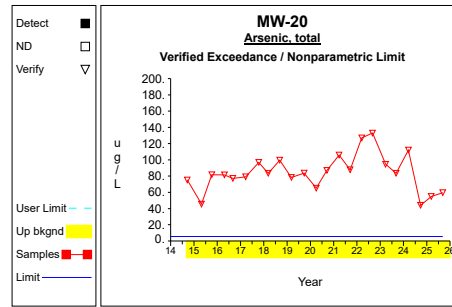


Graph 150

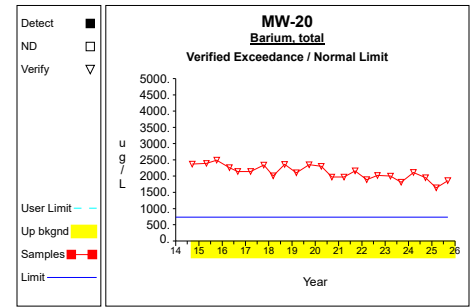
Up vs. Down Prediction Limits



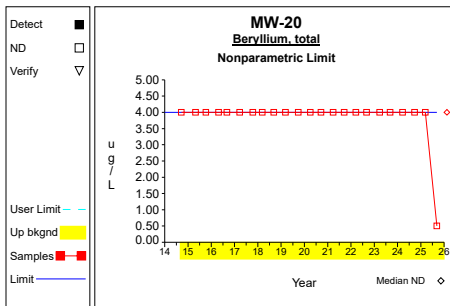
Graph 151



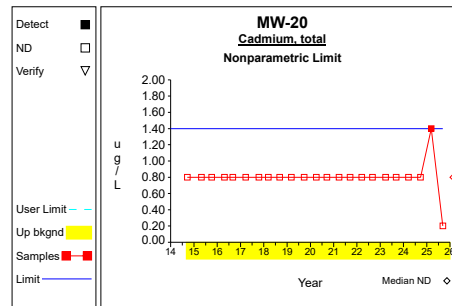
Graph 152



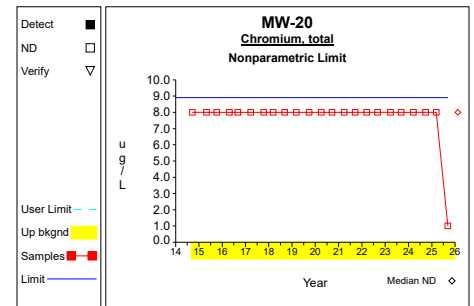
Graph 153



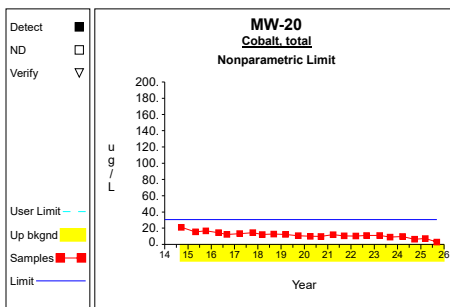
Graph 154



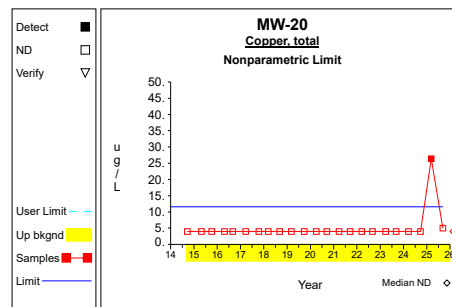
Graph 155



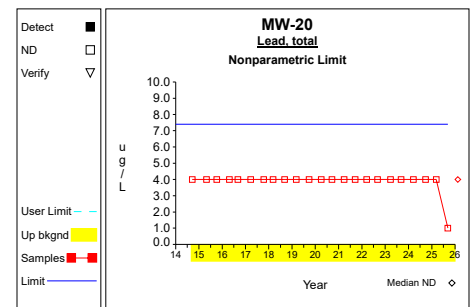
Graph 156



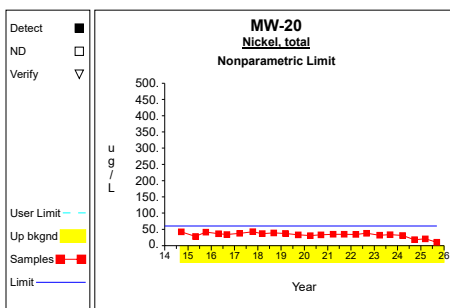
Graph 157



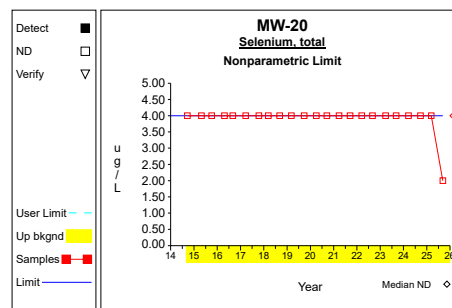
Graph 158



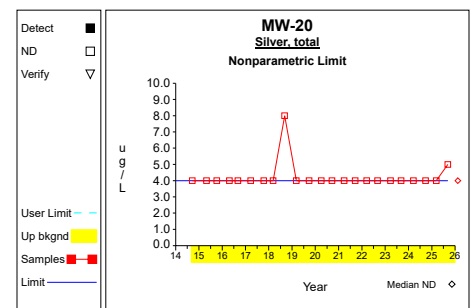
Graph 159



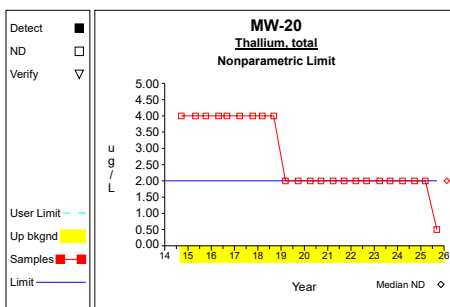
Graph 160



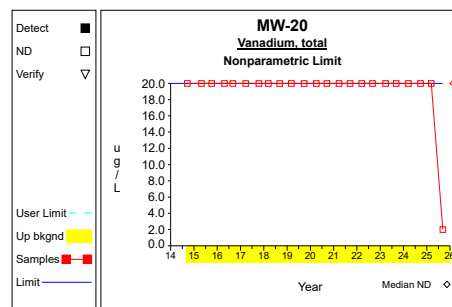
Graph 161



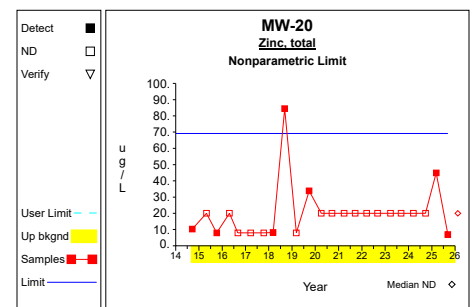
Graph 162



Graph 163

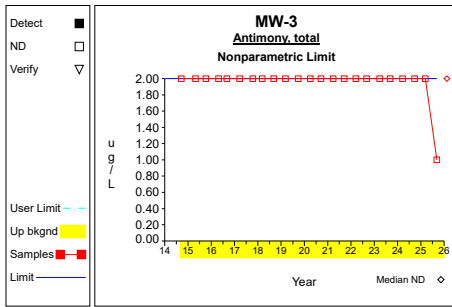


Graph 164

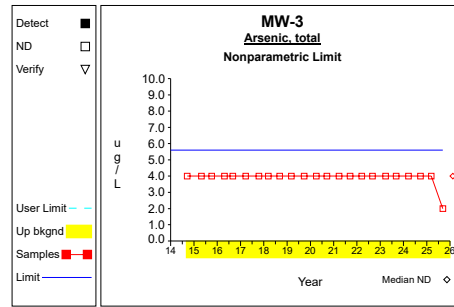


Graph 165

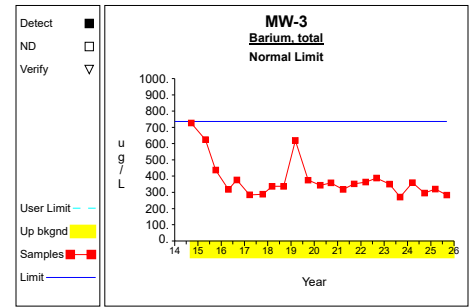
Up vs. Down Prediction Limits



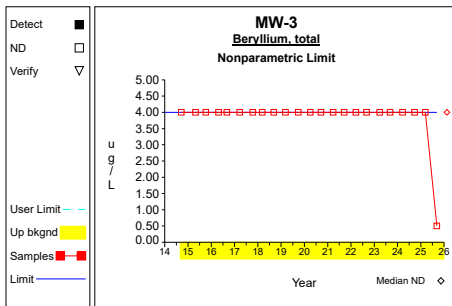
Graph 166



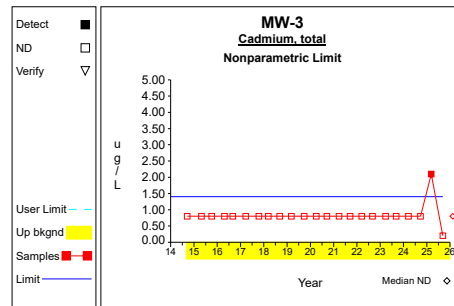
Graph 167



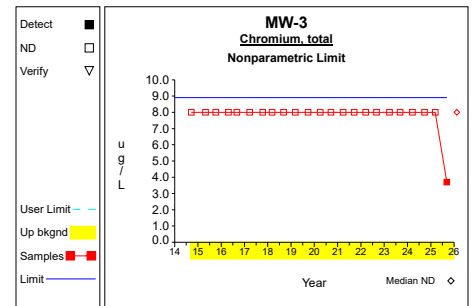
Graph 168



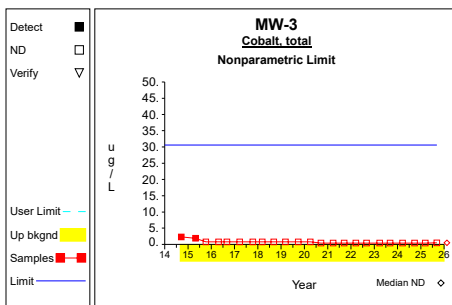
Graph 169



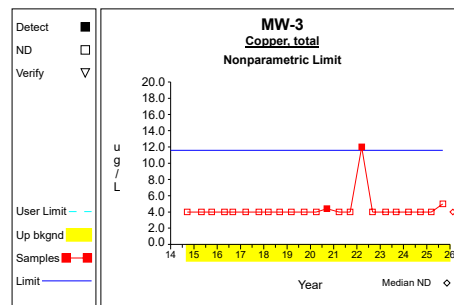
Graph 170



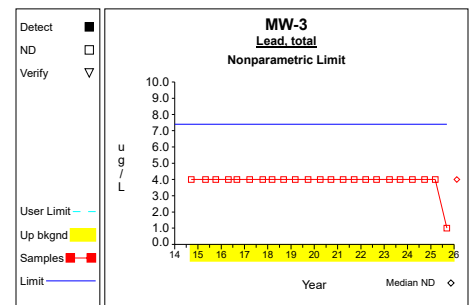
Graph 171



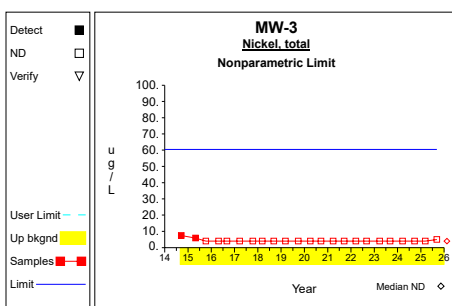
Graph 172



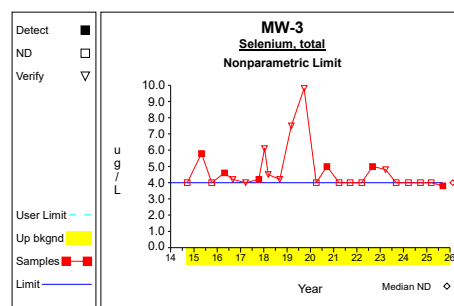
Graph 173



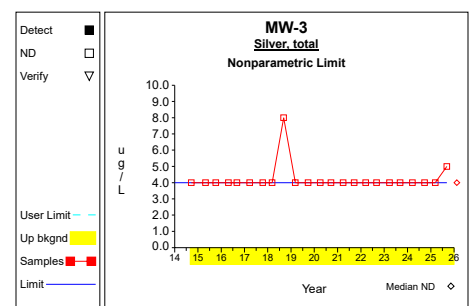
Graph 174



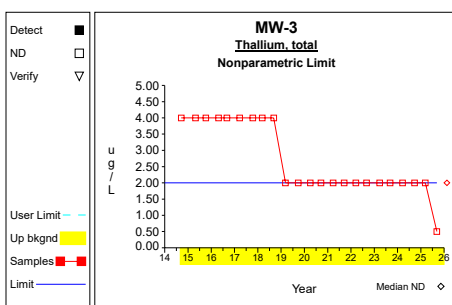
Graph 175



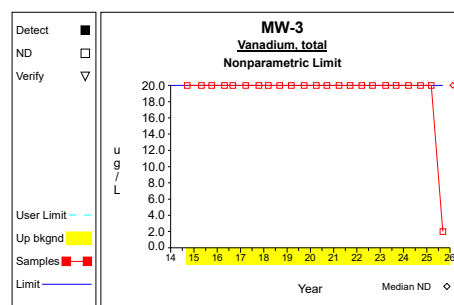
Graph 176



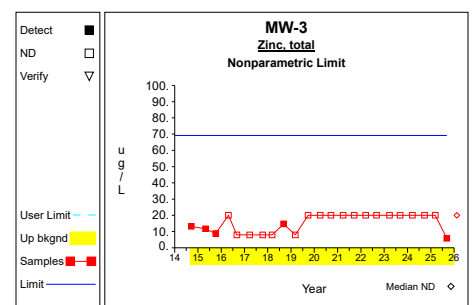
Graph 177



Graph 178

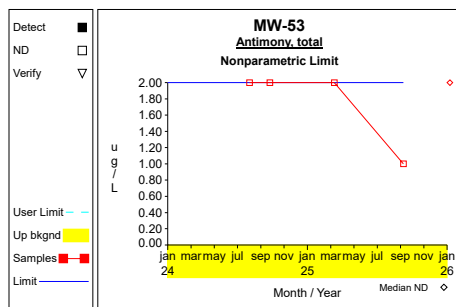


Graph 179

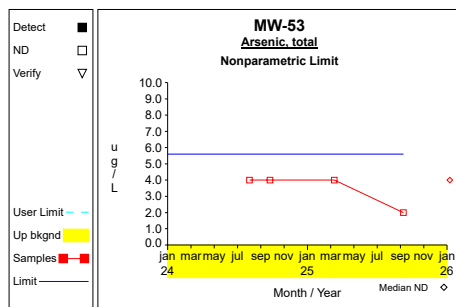


Graph 180

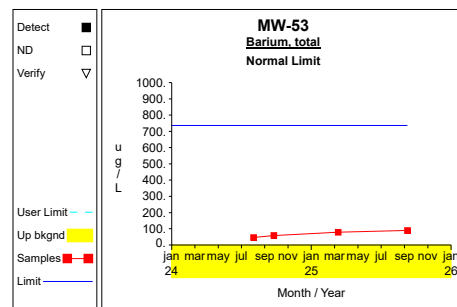
Up vs. Down Prediction Limits



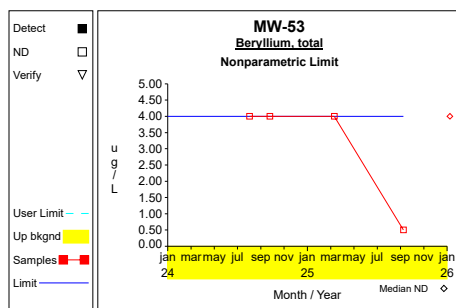
Graph 181



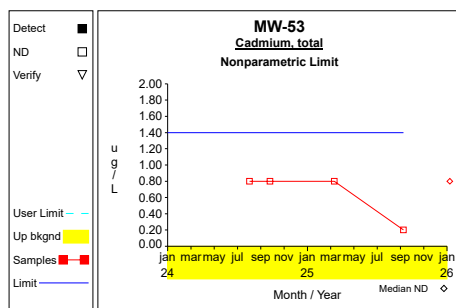
Graph 182



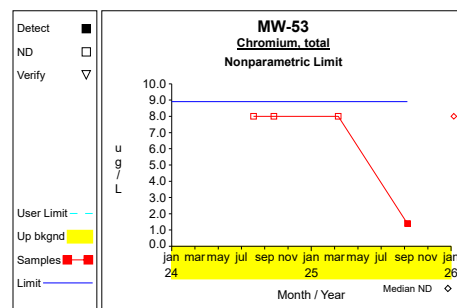
Graph 183



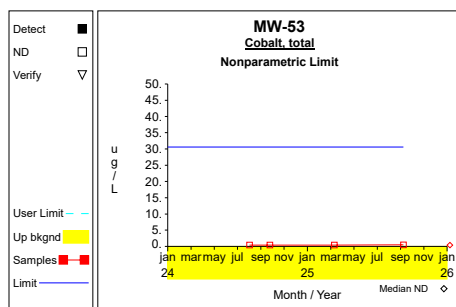
Graph 184



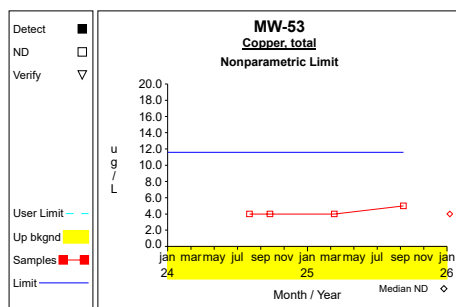
Graph 185



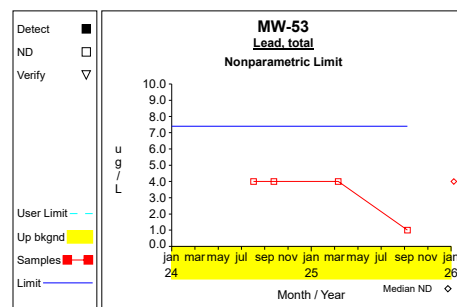
Graph 186



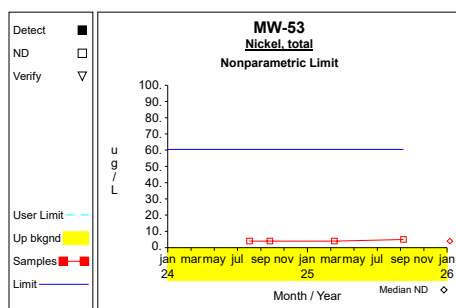
Graph 187



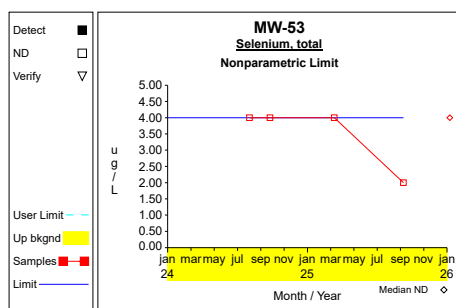
Graph 188



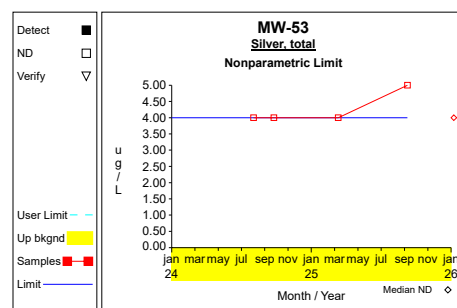
Graph 189



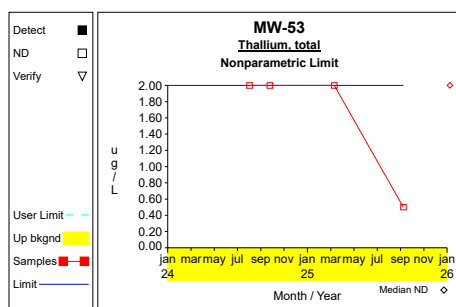
Graph 190



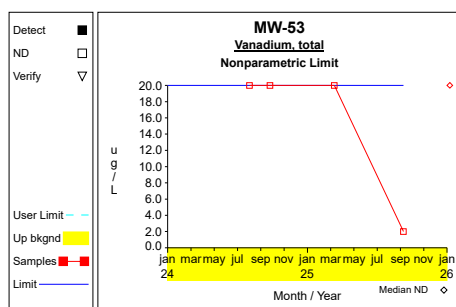
Graph 191



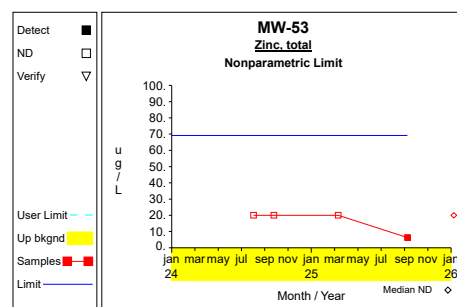
Graph 192



Graph 193

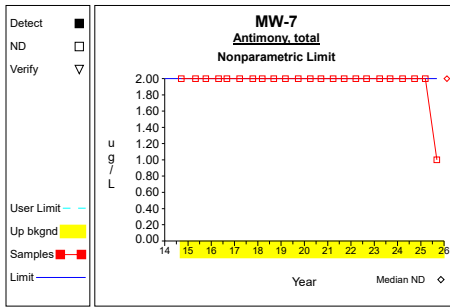


Graph 194

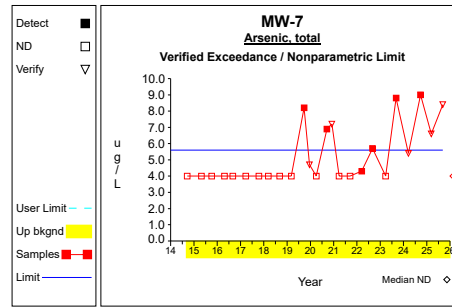


Graph 195

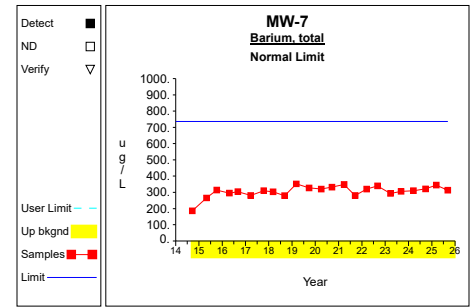
Up vs. Down Prediction Limits



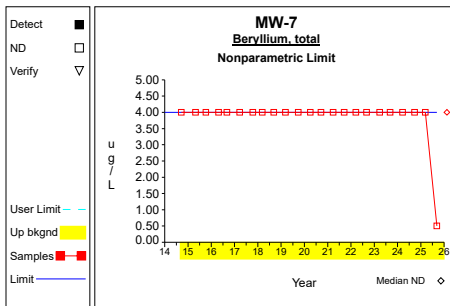
Graph 196



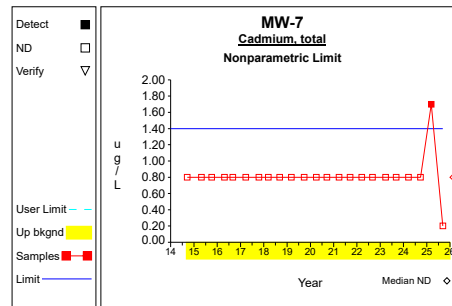
Graph 197



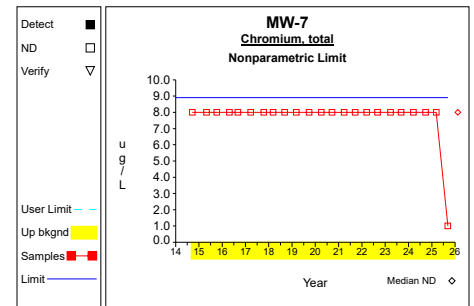
Graph 198



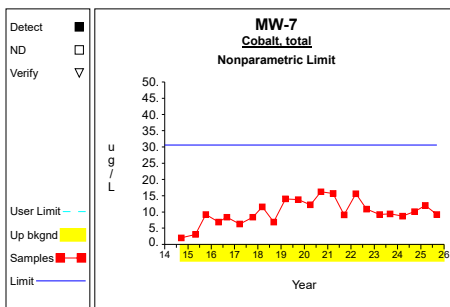
Graph 199



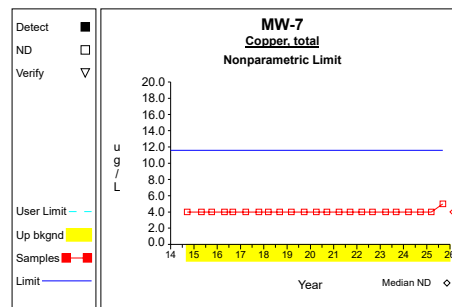
Graph 200



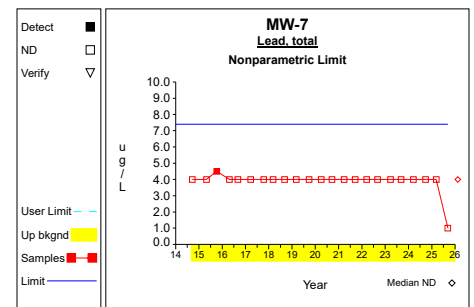
Graph 201



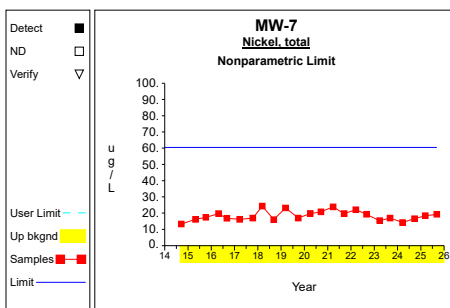
Graph 202



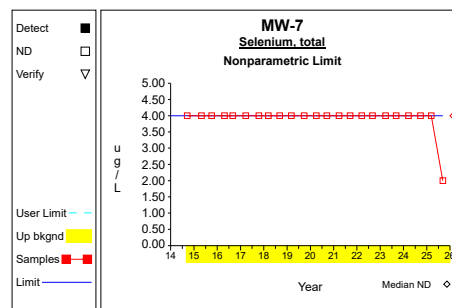
Graph 203



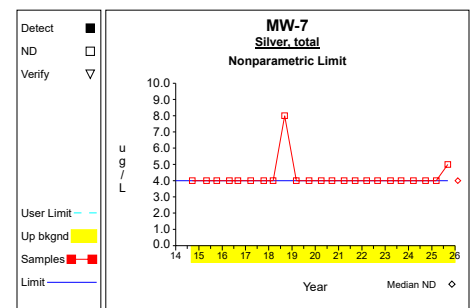
Graph 204



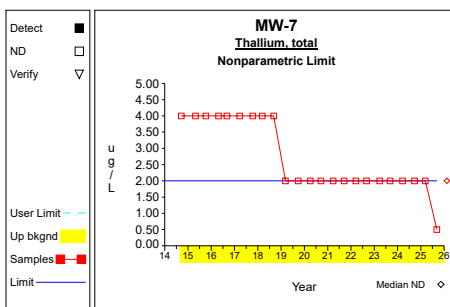
Graph 205



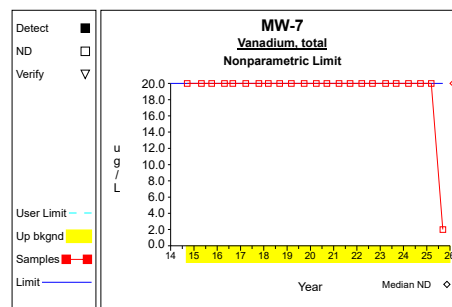
Graph 206



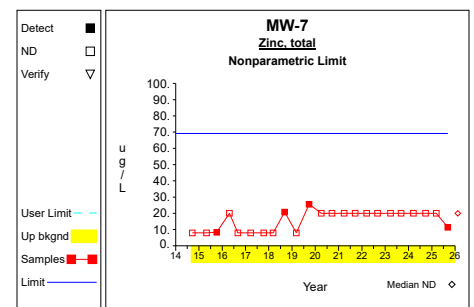
Graph 207



Graph 208

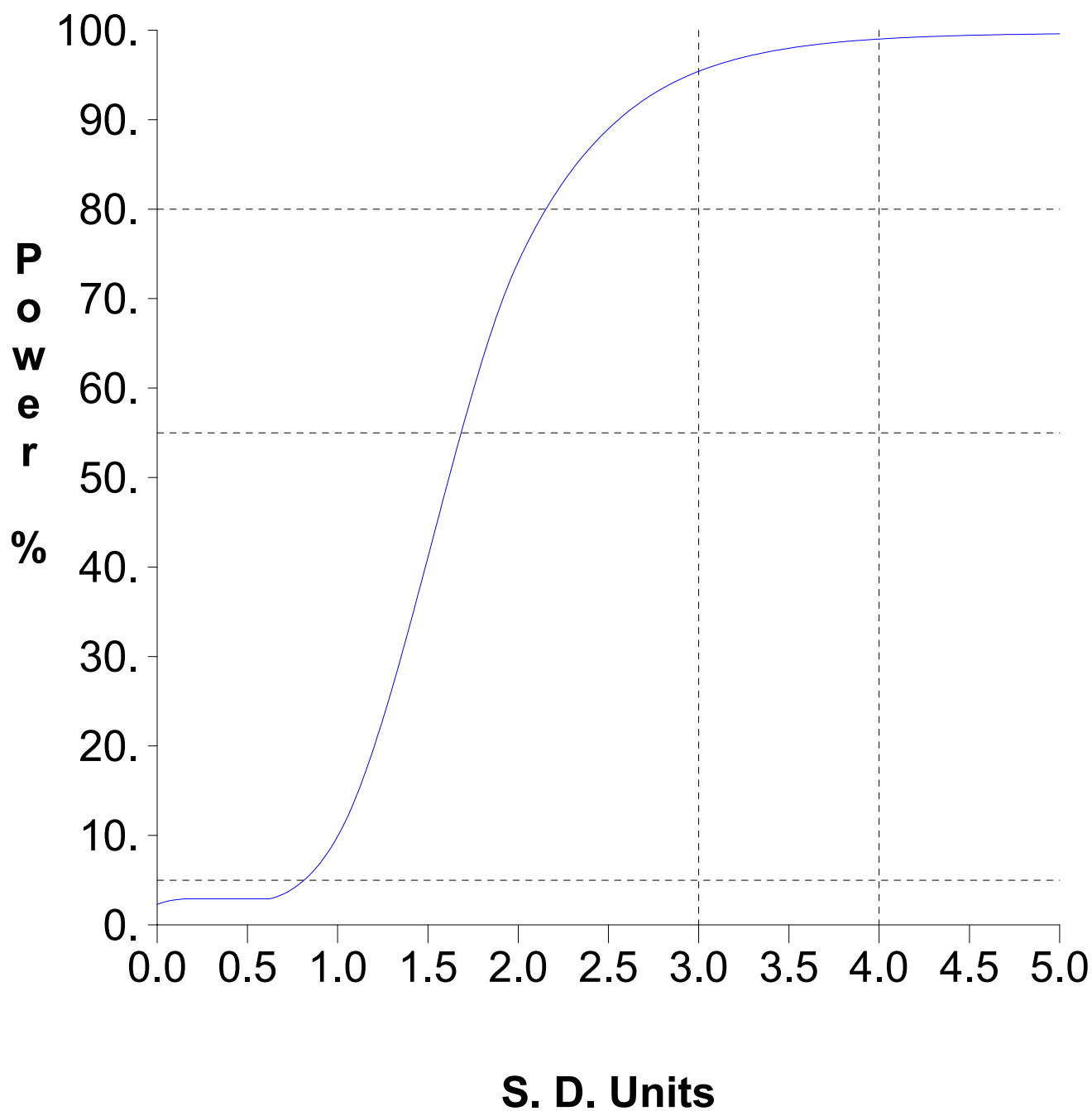


Graph 209



Graph 210

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program



Attachment C

Assessment Statistics for Trace Metals

Table 1

**Confidence Intervals for Comparing the Mean of the Last
4 Measurements to an Assessment Monitoring Standard**

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Arsenic, total	ug/L	GWD-3	4	2.000	0.000	1.176	2.000	2.000	10.000		
Barium, total	ug/L	GWD-3	4	273.250	28.698	1.176	239.493	307.007	2000.000		
Cadmium, total	ug/L	GWD-3	4	0.400	0.000	1.176	0.400	0.400	5.000		
Cobalt, total	ug/L	GWD-3	4	0.250	0.100	1.176	0.132	0.368	2.100		
Zinc, total	ug/L	GWD-3	4	168.250	150.662	1.176	0.000	345.472	2000.000		
Arsenic, total	ug/L	GWD-4	4	2.000	0.000	1.176	2.000	2.000	10.000		
Barium, total	ug/L	GWD-4	4	285.750	51.455	1.176	225.224	346.276	2000.000		
Cadmium, total	ug/L	GWD-4	4	0.400	0.000	1.176	0.400	0.400	5.000		
Cobalt, total	ug/L	GWD-4	4	0.325	0.250	1.176	0.031	0.619	2.100		
Zinc, total	ug/L	GWD-4	4	104.975	32.348	1.176	66.924	143.026	2000.000		
Arsenic, total	ug/L	MW-10	4	5.000	4.151	1.176	0.118	9.882	10.000		
Barium, total	ug/L	MW-10	4	484.000	71.801	1.176	399.542	568.458	2000.000	inc	
Cadmium, total	ug/L	MW-10	4	0.525	0.395	1.176	0.061	0.989	5.000		
Cobalt, total	ug/L	MW-10	4	1.525	0.797	1.176	0.587	2.463	2.100		
Zinc, total	ug/L	MW-10	4	13.525	10.047	1.176	1.707	25.343	2000.000		
Arsenic, total	ug/L	MW-14	4	2.000	0.000	1.176	2.000	2.000	10.000		
Barium, total	ug/L	MW-14	4	127.000	11.518	1.176	113.451	140.549	2000.000	dec	
Cadmium, total	ug/L	MW-14	4	2.775	3.055	1.176	0.000	6.369	5.000		
Cobalt, total	ug/L	MW-14	4	0.400	0.000	1.176	0.400	0.400	2.100		
Zinc, total	ug/L	MW-14	4	9.600	0.800	1.176	8.659	10.541	2000.000		
Arsenic, total	ug/L	MW-16	4	29.100	11.387	1.176	15.705	42.495	10.000	dec	**
Barium, total	ug/L	MW-16	4	819.000	195.593	1.176	588.926	1049.074	2000.000	dec	
Cadmium, total	ug/L	MW-16	4	0.575	0.350	1.176	0.163	0.987	5.000		
Cobalt, total	ug/L	MW-16	4	1.350	0.526	1.176	0.731	1.969	2.100	dec	
Zinc, total	ug/L	MW-16	4	5.000	0.000	1.176	5.000	5.000	2000.000		
Arsenic, total	ug/L	MW-18	4	34.700	9.015	1.176	24.096	45.304	10.000		**
Barium, total	ug/L	MW-18	4	431.250	73.595	1.176	344.681	517.819	2000.000		
Cadmium, total	ug/L	MW-18	4	0.475	0.299	1.176	0.124	0.826	5.000		
Cobalt, total	ug/L	MW-18	4	0.975	0.171	1.176	0.774	1.176	2.100	dec	
Zinc, total	ug/L	MW-18	4	11.200	2.400	1.176	8.377	14.023	2000.000		
Arsenic, total	ug/L	MW-20	4	67.675	30.262	1.176	32.079	103.271	10.000		**
Barium, total	ug/L	MW-20	4	1890.000	196.129	1.176	1659.295	2120.705	2000.000	dec	
Cadmium, total	ug/L	MW-20	4	0.650	0.500	1.176	0.062	1.238	5.000		
Cobalt, total	ug/L	MW-20	4	6.575	2.767	1.176	3.320	9.830	2.100	dec	**
Zinc, total	ug/L	MW-20	4	17.975	18.006	1.176	0.000	39.155	2000.000		
Arsenic, total	ug/L	MW-3	4	2.000	0.000	1.176	2.000	2.000	10.000		
Barium, total	ug/L	MW-3	4	314.500	34.025	1.176	274.477	354.523	2000.000	dec	
Cadmium, total	ug/L	MW-3	4	0.825	0.850	1.176	0.000	1.825	5.000		
Cobalt, total	ug/L	MW-3	4	0.400	0.000	1.176	0.400	0.400	2.100		
Zinc, total	ug/L	MW-3	4	8.950	2.100	1.176	6.480	11.420	2000.000		
Arsenic, total	ug/L	MW-7	4	7.350	1.652	1.176	5.406	9.294	10.000		
Barium, total	ug/L	MW-7	4	322.000	15.384	1.176	303.904	340.096	2000.000	inc	
Cadmium, total	ug/L	MW-7	4	0.725	0.650	1.176	0.000	1.490	5.000		
Cobalt, total	ug/L	MW-7	4	10.000	1.454	1.176	8.290	11.710	2.100	inc	**
Zinc, total	ug/L	MW-7	4	6.600	3.200	1.176	2.836	10.364	2000.000		

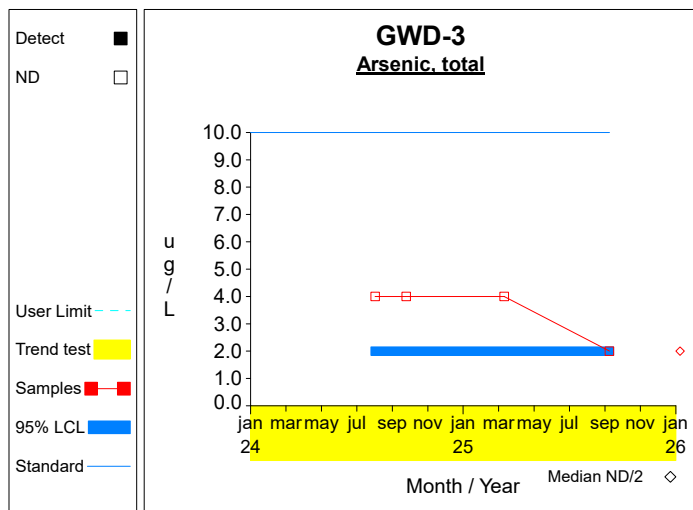
* - Insufficient Data

** - Significant Exceedance

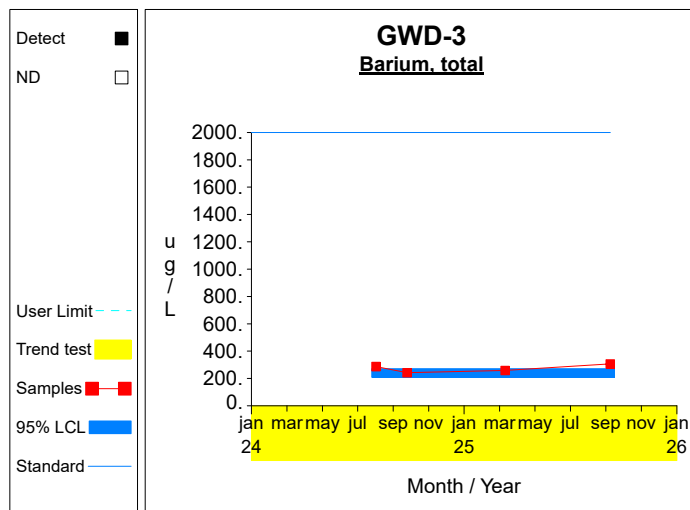
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

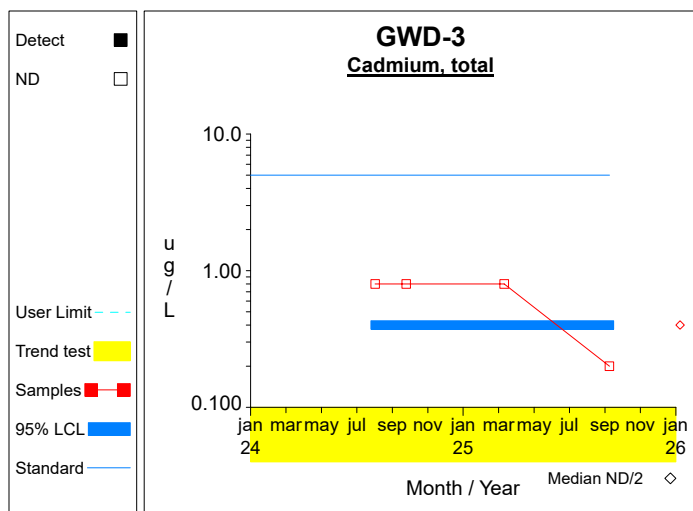
Confidence Limits (Assessment)



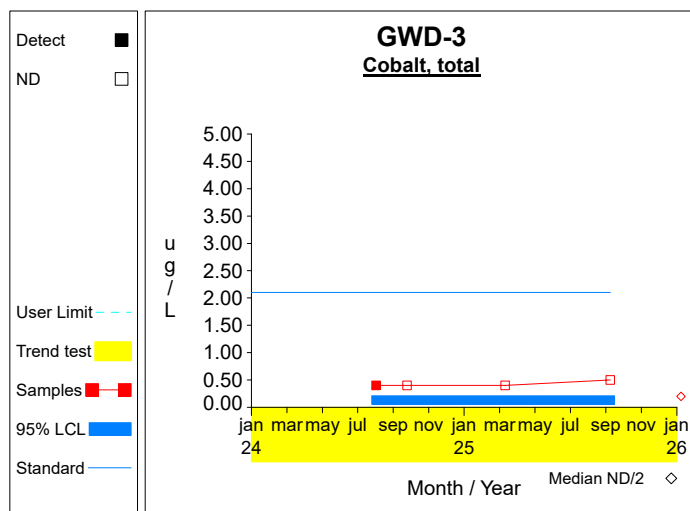
Graph 1



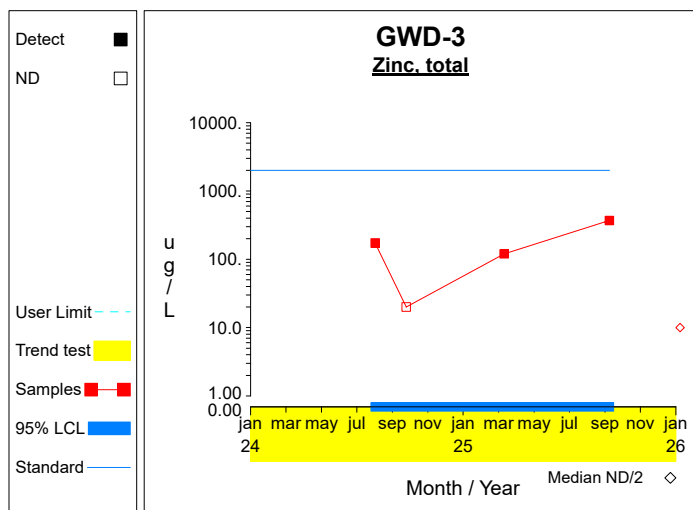
Graph 2



Graph 3

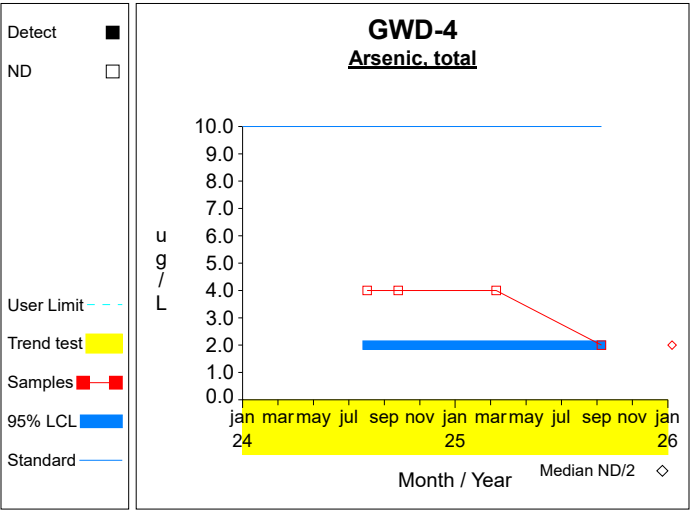


Graph 4

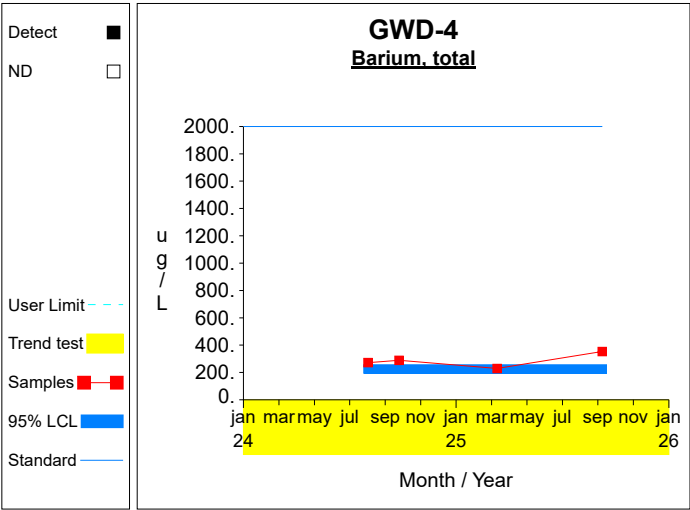


Graph 5

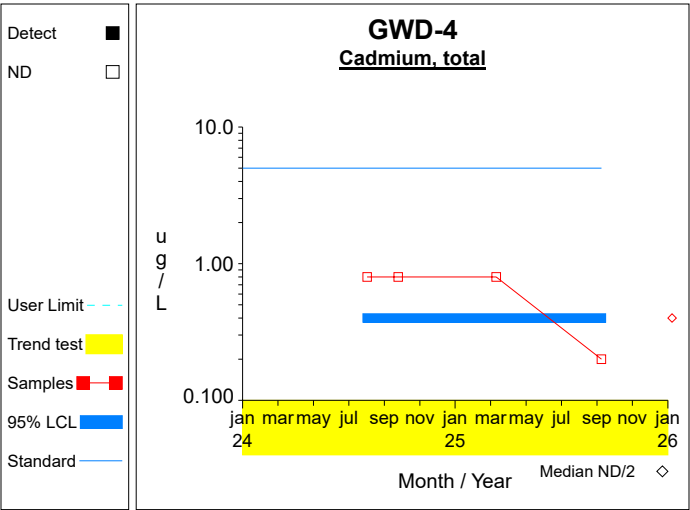
Confidence Limits (Assessment)



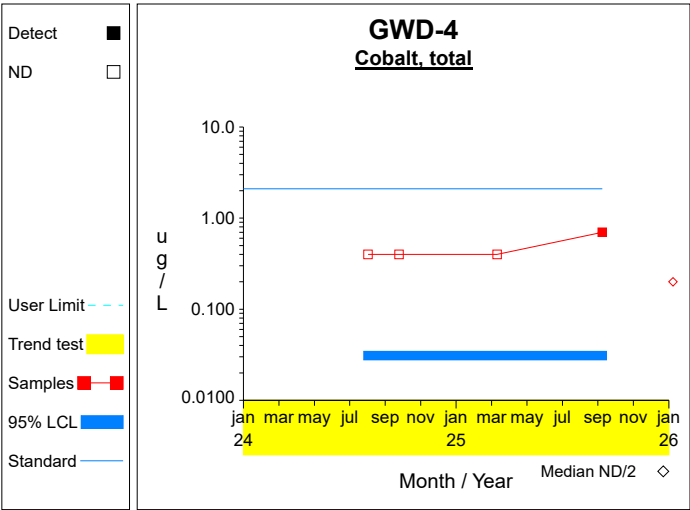
Graph 6



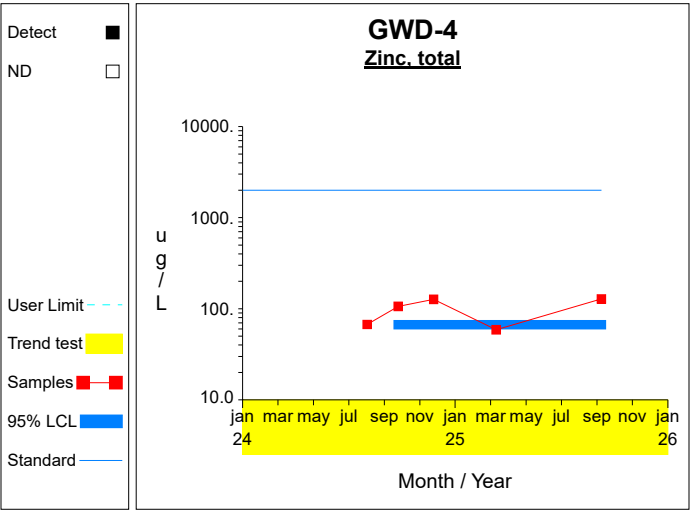
Graph 7



Graph 8

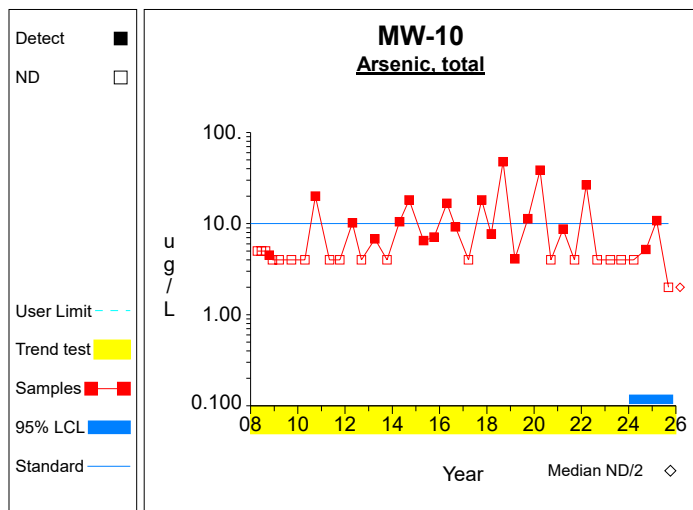


Graph 9

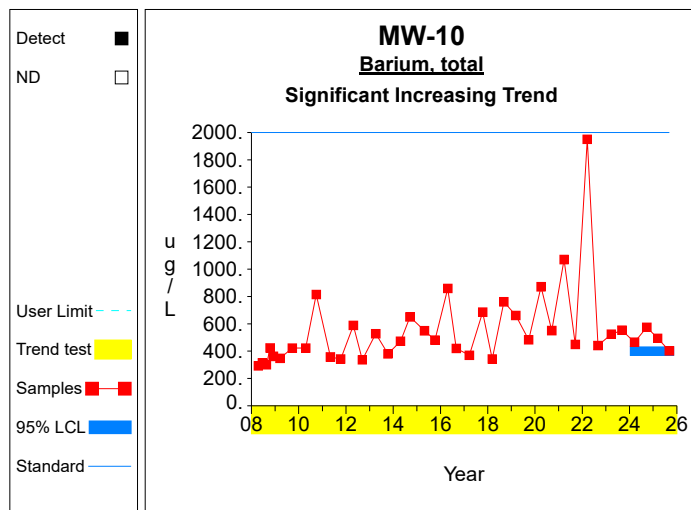


Graph 10

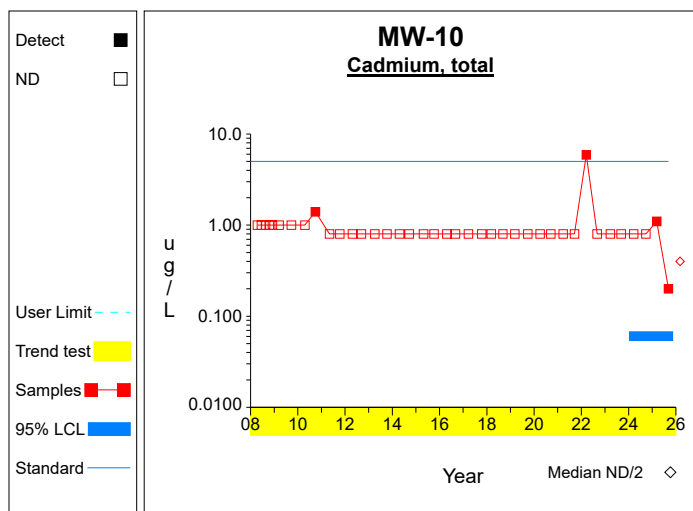
Confidence Limits (Assessment)



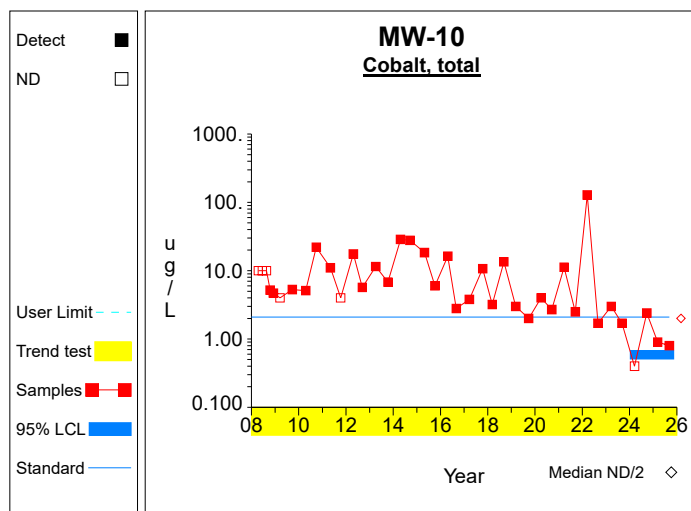
Graph 11



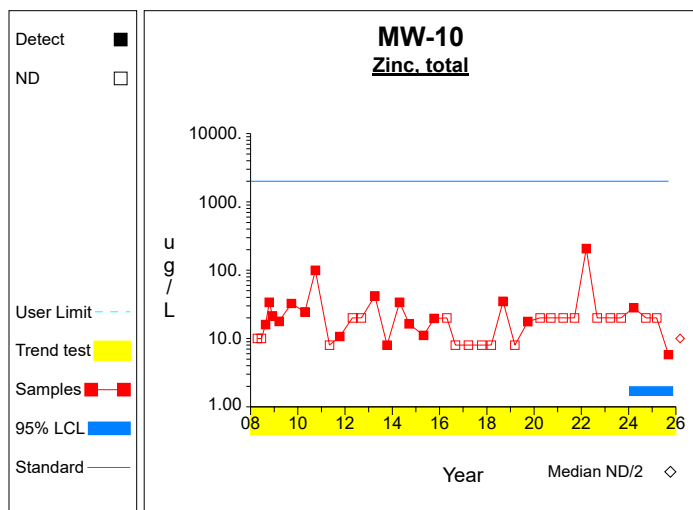
Graph 12



Graph 13

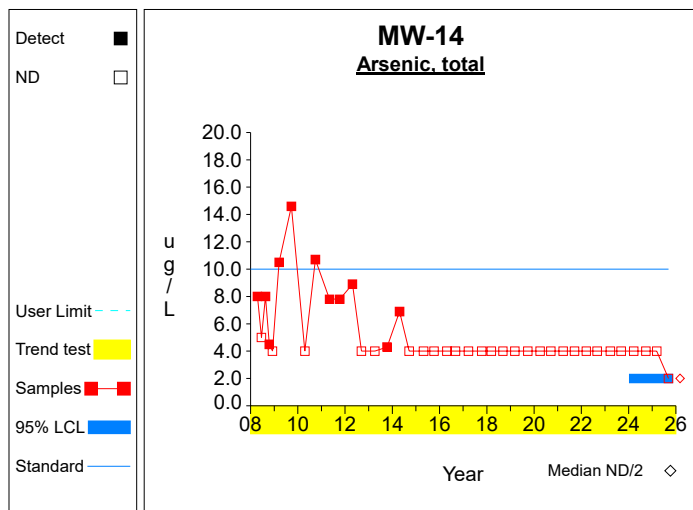


Graph 14

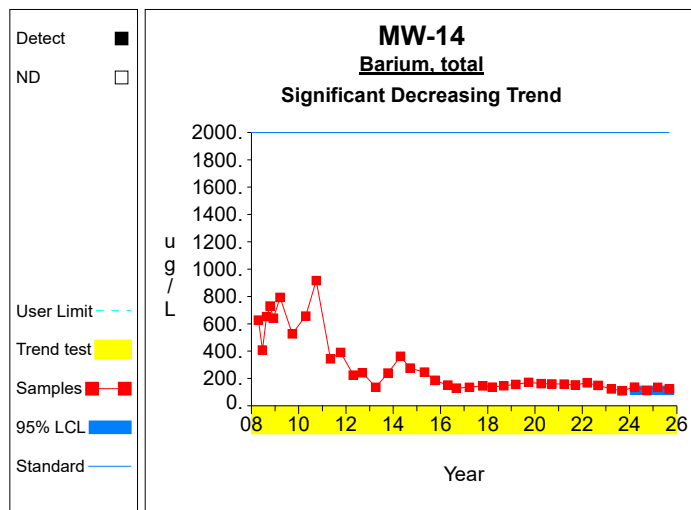


Graph 15

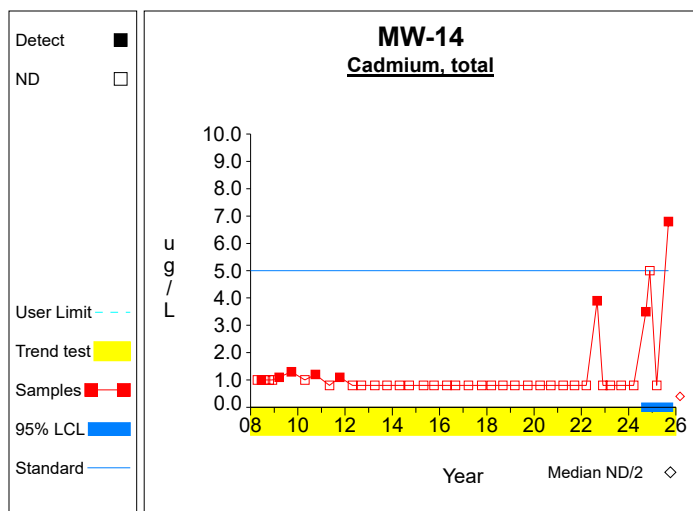
Confidence Limits (Assessment)



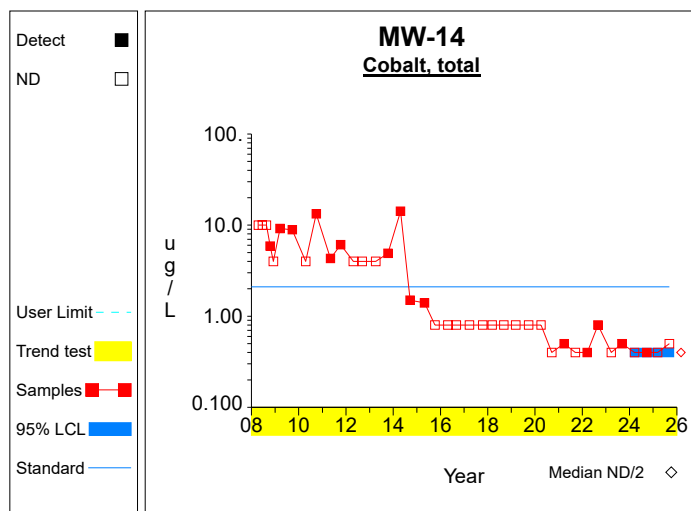
Graph 16



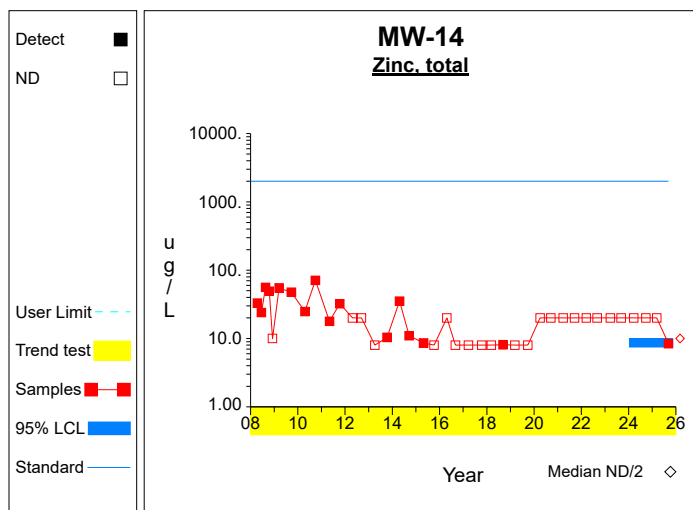
Graph 17



Graph 18

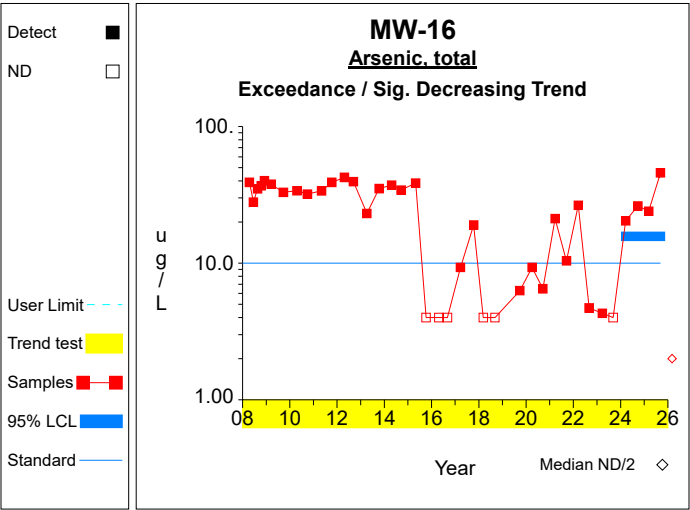


Graph 19

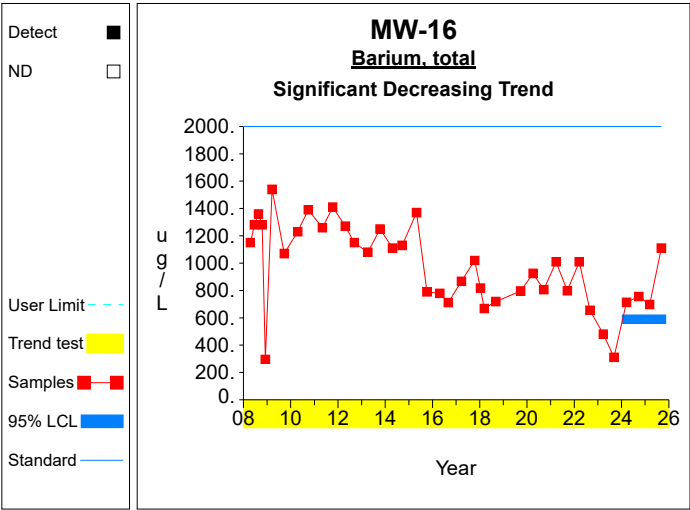


Graph 20

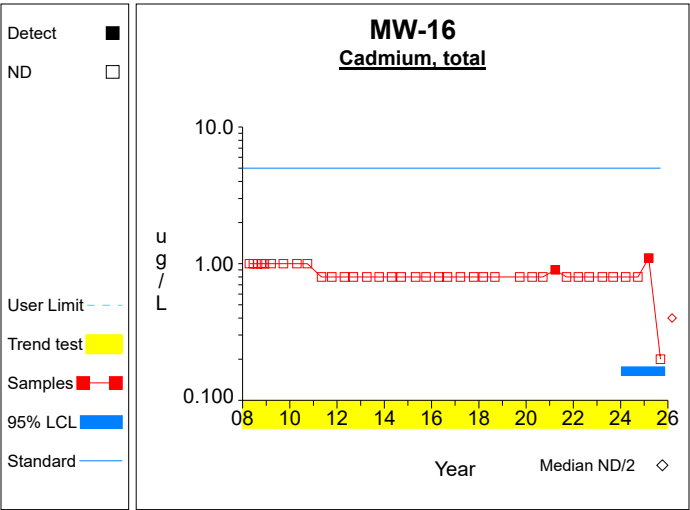
Confidence Limits (Assessment)



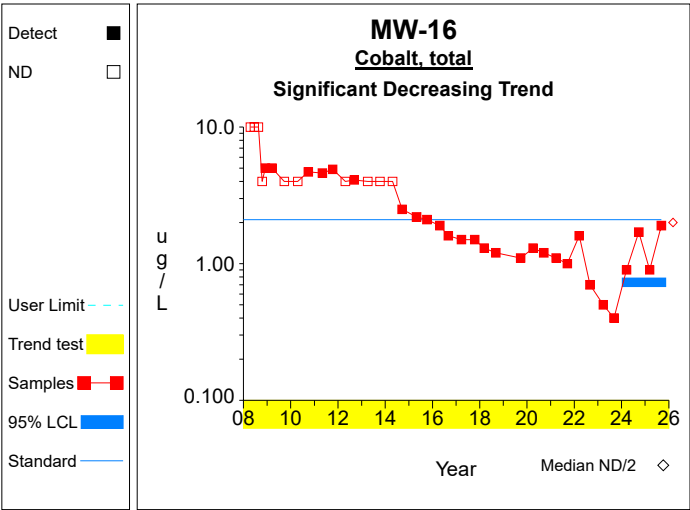
Graph 21



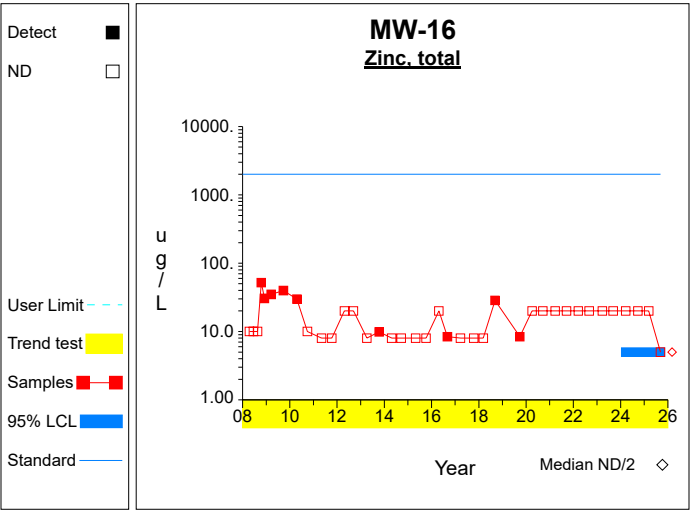
Graph 22



Graph 23

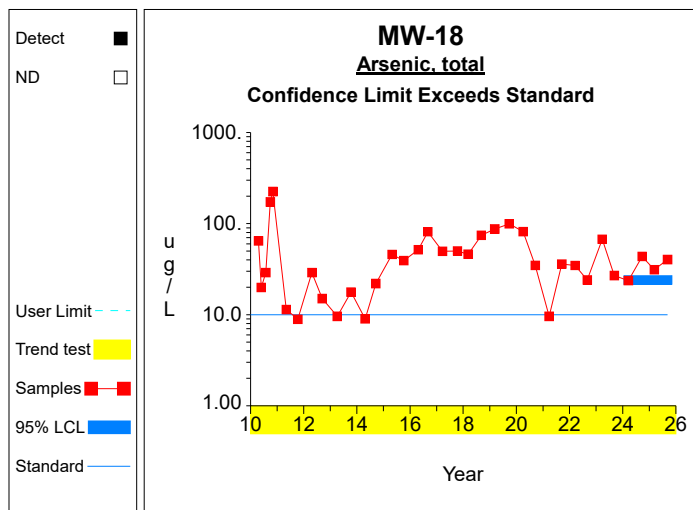


Graph 24

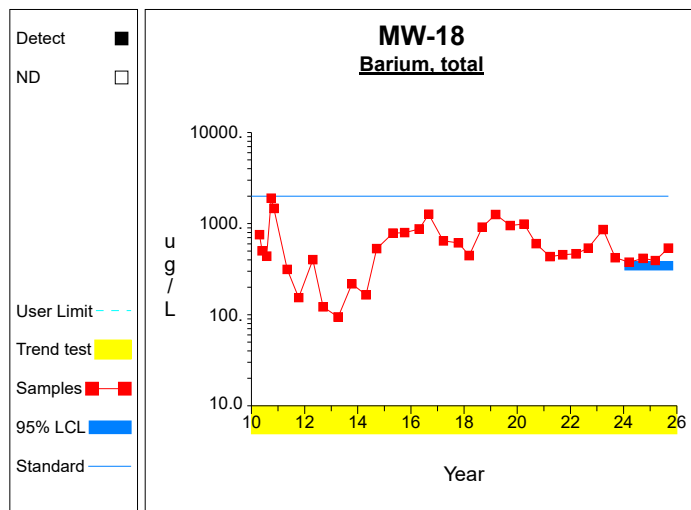


Graph 25

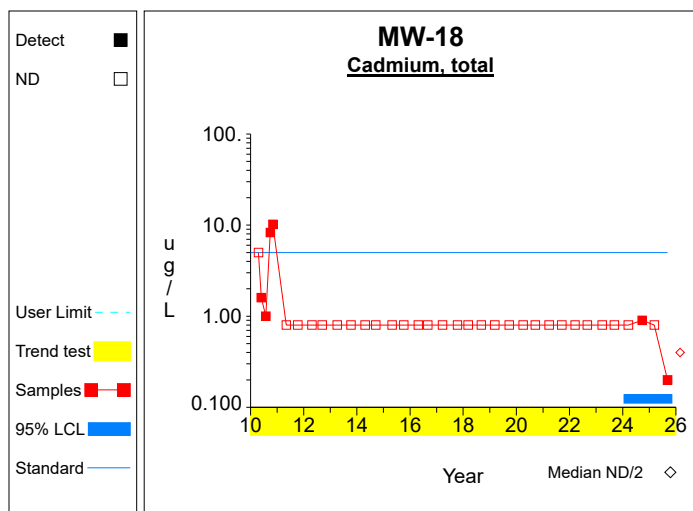
Confidence Limits (Assessment)



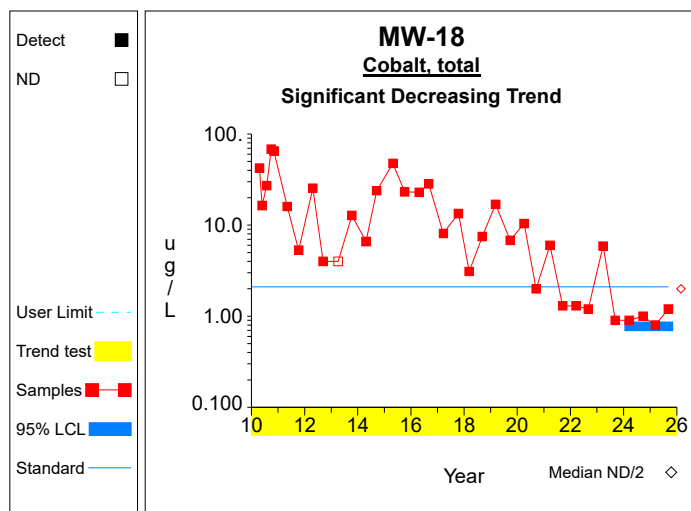
Graph 26



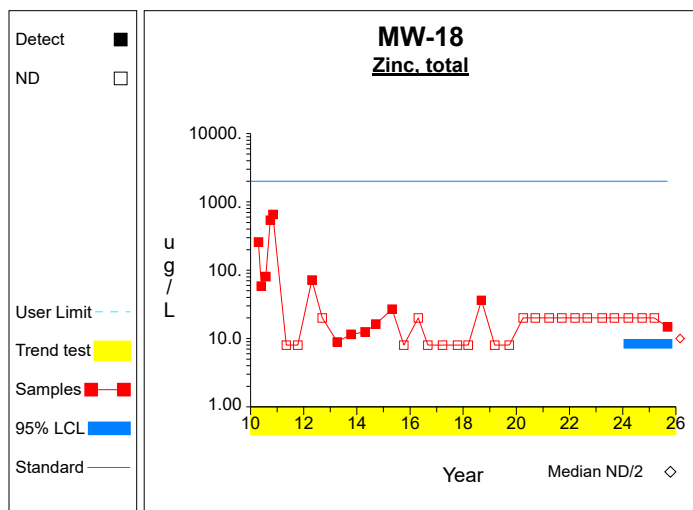
Graph 27



Graph 28

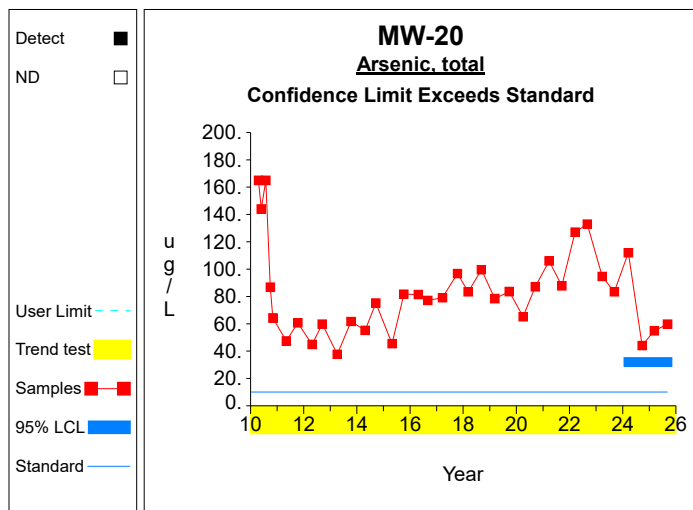


Graph 29

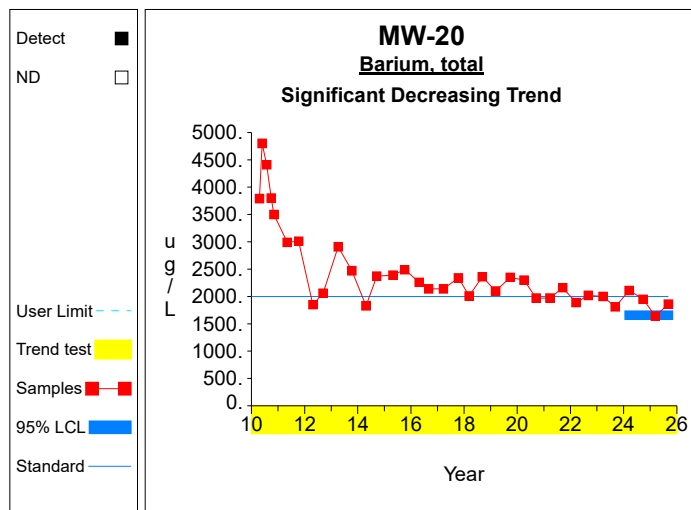


Graph 30

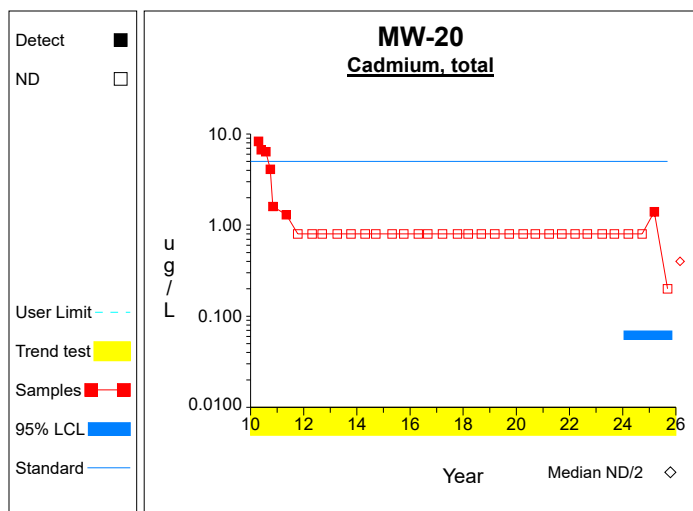
Confidence Limits (Assessment)



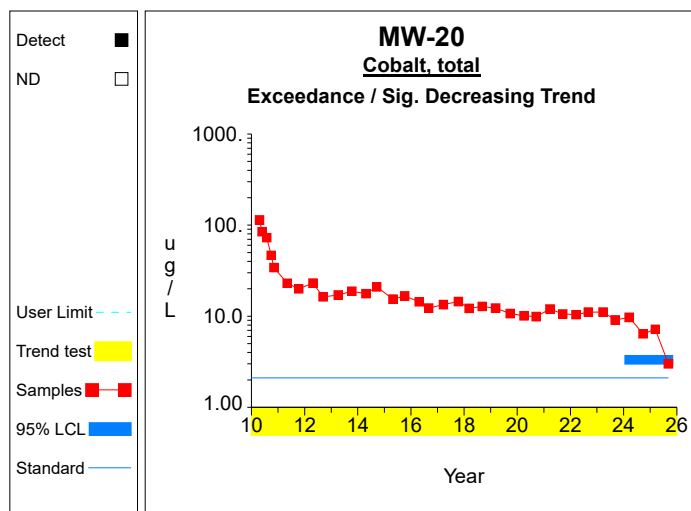
Graph 31



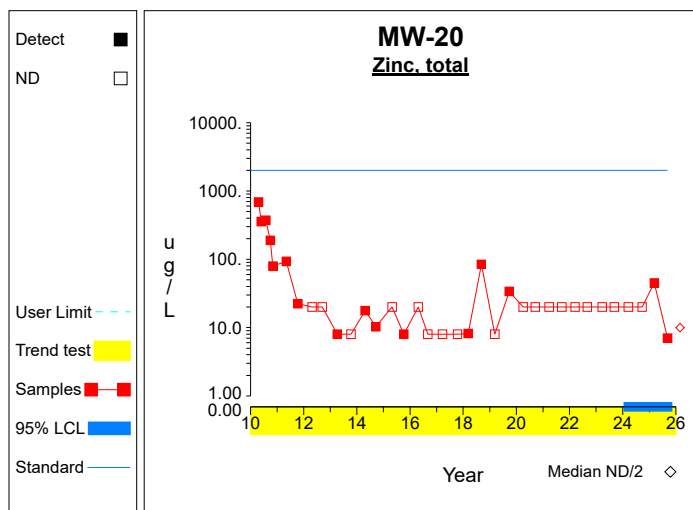
Graph 32



Graph 33

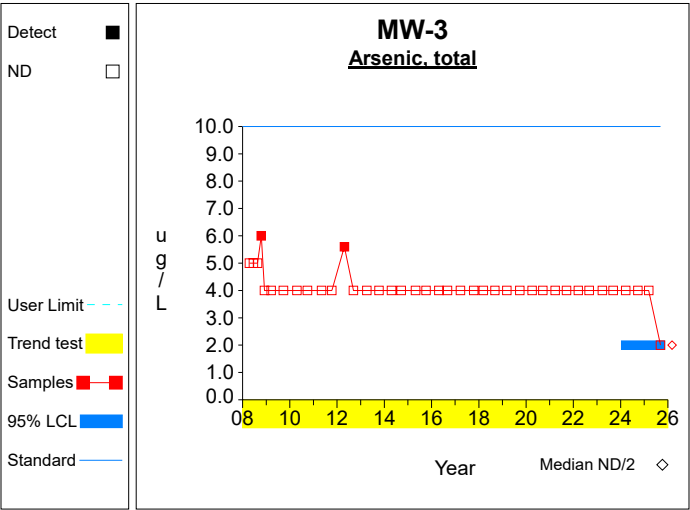


Graph 34

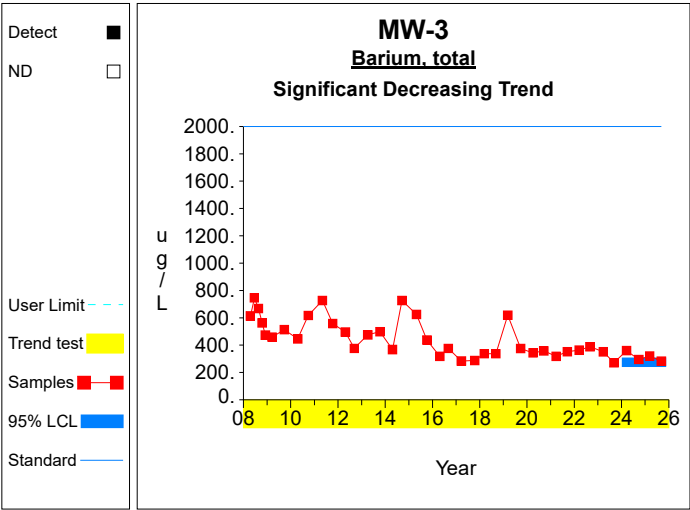


Graph 35

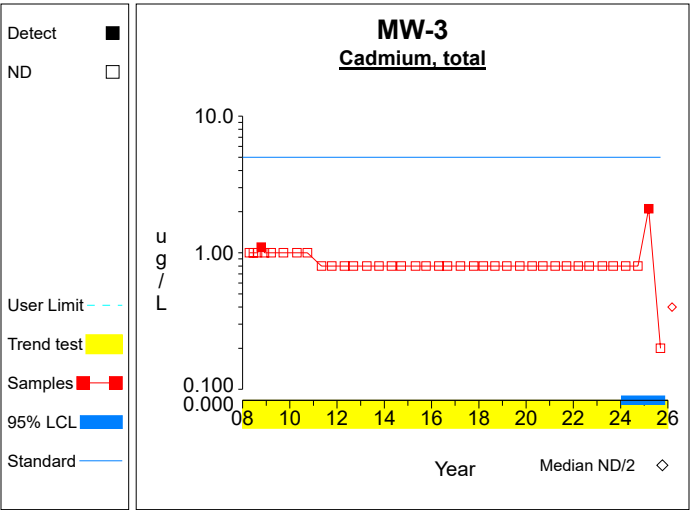
Confidence Limits (Assessment)



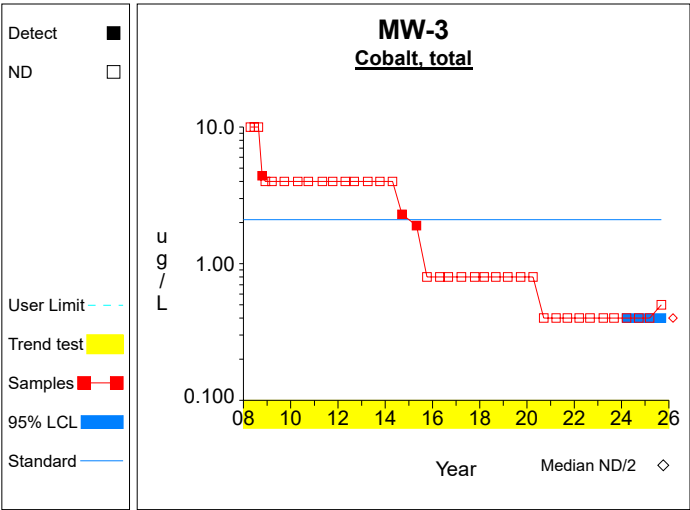
Graph 36



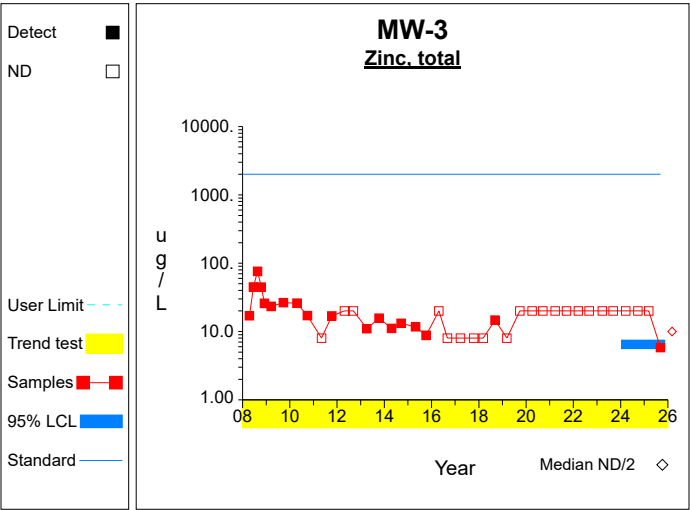
Graph 37



Graph 38

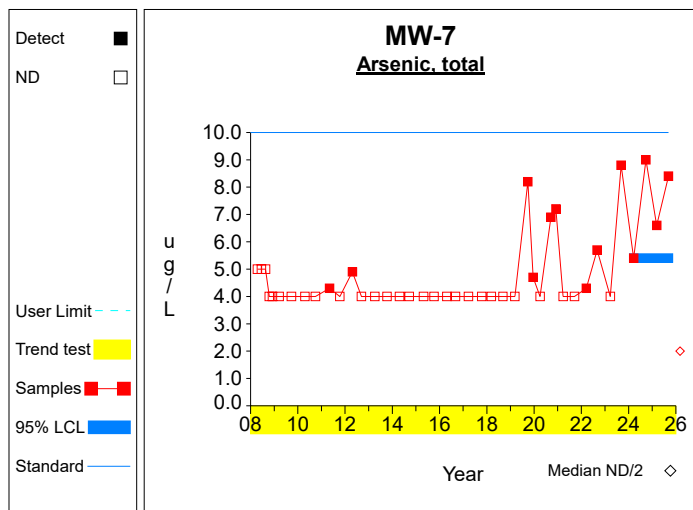


Graph 39

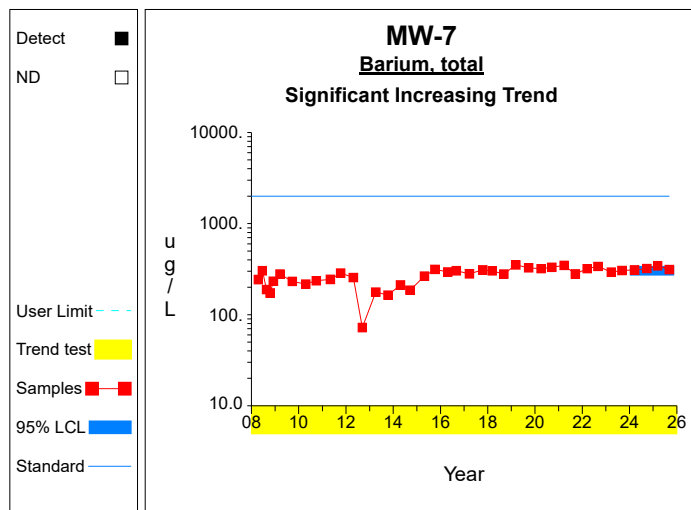


Graph 40

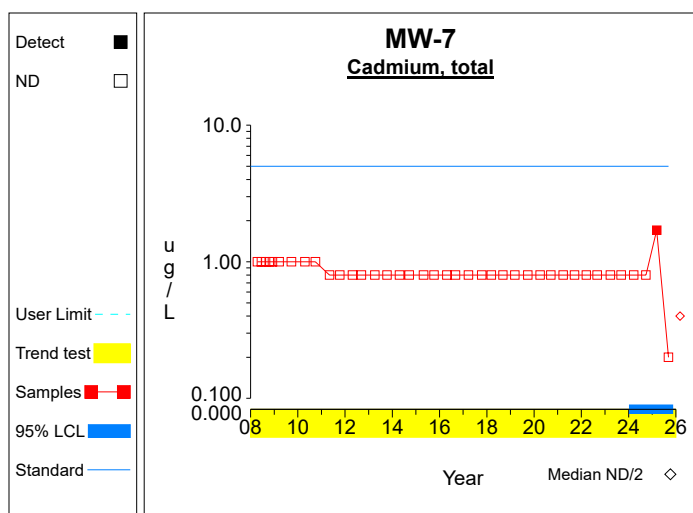
Confidence Limits (Assessment)



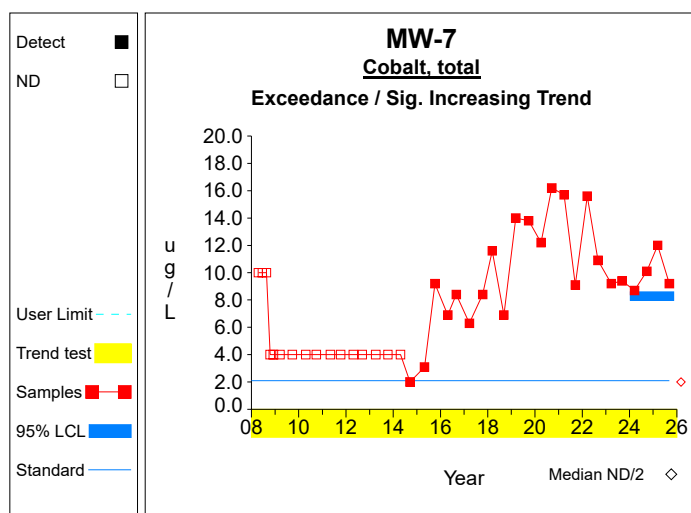
Graph 41



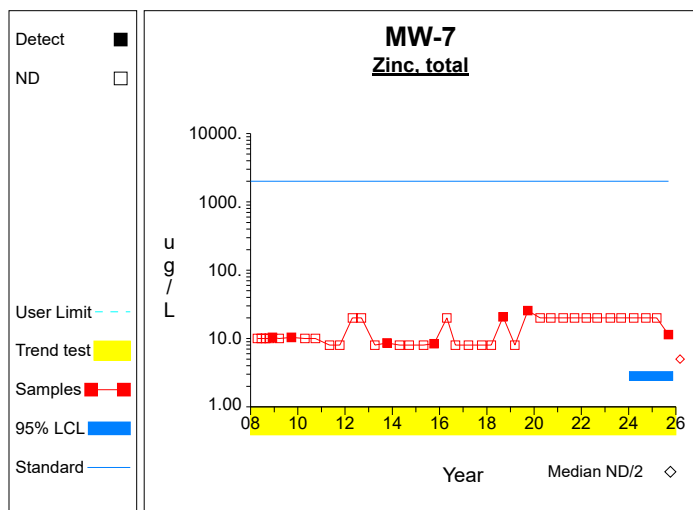
Graph 42



Graph 43



Graph 44



Graph 45

Attachment D

Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Acetone	GWD-1	9/24/2009		76.0	10.0	ug/L
Acetone	GWD-1	10/13/2017		20.2	10.0	ug/L
Benzene	GWD-1	4/23/2012		1.2	1.0	ug/L
Chloroethane	GWD-1	4/23/2012		3.4	1.0	ug/L
Acetone	MW-1	9/17/2014		11.2	10.0	ug/L
Benzene	MW-1	3/25/2021		1.5	1.0	ug/L
Benzene	MW-1	3/16/2022		1.0	1.0	ug/L
Benzene	MW-1	3/24/2023		1.7	1.0	ug/L
Benzene	MW-1	5/09/2023		1.6	1.0	ug/L
Chloroethane	MW-1	9/17/2014		1.4	1.0	ug/L
Chloroethane	MW-1	3/25/2021		1.6	1.0	ug/L
Chloroethane	MW-1	3/24/2023		1.3	1.0	ug/L
Chloroethane	MW-1	5/09/2023		1.3	1.0	ug/L
Trichloroethylene	MW-1	9/16/2021		3	1	ug/L
Acetone	MW-10	10/10/2011		13.5	10.0	ug/L
Acetone	MW-10	9/17/2014		18.8	10.0	ug/L
Acetone	MW-10	10/13/2017		18.7	10.0	ug/L
Acetone	MW-10	9/06/2018		11.3	10.0	ug/L
Acetone	MW-10	3/25/2021		10.7	10.0	ug/L
Benzene	MW-10	9/06/2018		1.4	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-10	9/06/2018		8	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-10	4/02/2020		14	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-10	3/10/2025		10	6	ug/L
Acetone	MW-11	10/13/2017		12.1	10.0	ug/L
Acetone	MW-13	10/13/2017		16.9	10.0	ug/L
1,1-dichloroethane	MW-16	4/16/2008		1.8	1.0	ug/L
1,1-dichloroethane	MW-16	6/17/2008		2.2	1.0	ug/L
1,1-dichloroethane	MW-16	8/20/2008		1.9	1.0	ug/L
1,1-dichloroethane	MW-16	10/16/2008		2.0	1.0	ug/L
1,1-dichloroethane	MW-16	12/04/2008		1.4	1.0	ug/L
1,1-dichloroethane	MW-16	3/16/2009		1.4	1.0	ug/L
1,1-dichloroethane	MW-16	9/24/2009		1.6	1.0	ug/L
1,1-dichloroethane	MW-16	4/19/2010		1.8	1.0	ug/L
1,1-dichloroethane	MW-16	5/03/2011		1.7	1.0	ug/L
1,1-dichloroethane	MW-16	10/11/2011		1.8	1.0	ug/L
1,1-dichloroethane	MW-16	4/23/2012		1.9	1.0	ug/L
1,1-dichloroethane	MW-16	9/10/2012		1.6	1.0	ug/L
1,1-dichloroethane	MW-16	4/04/2013		2.2	1.0	ug/L
1,1-dichloroethane	MW-16	10/11/2013		2.1	1.0	ug/L
1,1-dichloroethane	MW-16	4/23/2014		2.4	1.0	ug/L
1,1-dichloroethane	MW-16	9/18/2014		2.0	1.0	ug/L
1,1-dichloroethane	MW-16	4/29/2015		2.2	1.0	ug/L
1,1-dichloroethane	MW-16	10/06/2015		1.9	1.0	ug/L
1,1-dichloroethane	MW-16	4/23/2016		2.5	1.0	ug/L
1,1-dichloroethane	MW-16	9/01/2016		1.9	1.0	ug/L
1,1-dichloroethane	MW-16	3/22/2017		1.6	1.0	ug/L
1,1-dichloroethane	MW-16	10/13/2017		1.8	1.0	ug/L
1,1-dichloroethane	MW-16	3/09/2018		2.4	1.0	ug/L
1,1-dichloroethane	MW-16	3/07/2019		1.7	1.0	ug/L
1,1-dichloroethane	MW-16	9/26/2019		1.3	1.0	ug/L
1,1-dichloroethane	MW-16	3/25/2021		1.2	1.0	ug/L
1,1-dichloroethane	MW-16	3/16/2022		1.9	1.0	ug/L
1,1-dichloroethane	MW-16	3/18/2024		1.0	1.0	ug/L
1,1-dichloroethane	MW-16	3/10/2025		1.2	1.0	ug/L
1,2-dichloropropane	MW-16	3/16/2022		1	1	ug/L
1,4-dichlorobenzene	MW-16	3/10/1994		2.6	1.0	ug/L
1,4-dichlorobenzene	MW-16	6/09/1994		2.6	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/28/2007		3.8	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/27/2007		3.1	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/16/2008		3.5	1.0	ug/L
1,4-dichlorobenzene	MW-16	6/17/2008		4.1	1.0	ug/L
1,4-dichlorobenzene	MW-16	8/20/2008		4.1	1.0	ug/L
1,4-dichlorobenzene	MW-16	10/16/2008		3.2	1.0	ug/L
1,4-dichlorobenzene	MW-16	12/04/2008		4.9	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/16/2009		4.2	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/24/2009		3.0	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/19/2010		3.6	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/29/2010		4.2	1.0	ug/L
1,4-dichlorobenzene	MW-16	5/03/2011		3.6	1.0	ug/L
1,4-dichlorobenzene	MW-16	10/11/2011		3.4	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/23/2012		2.5	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/10/2012		2.7	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/04/2013		2.3	1.0	ug/L
1,4-dichlorobenzene	MW-16	10/11/2013		2.0	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/23/2014		1.7	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/29/2015		1.5	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,4-dichlorobenzene	MW-16	10/06/2015		2.0	1.0	ug/L
1,4-dichlorobenzene	MW-16	4/23/2016		1.6	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/01/2016		2.1	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/22/2017		2.6	1.0	ug/L
1,4-dichlorobenzene	MW-16	10/13/2017		2.0	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/09/2018		1.8	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/06/2018		2.7	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/07/2019		3.8	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/17/2020		1.8	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/25/2021		1.8	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/16/2021		2.2	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/16/2022		2.1	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/18/2024		1.8	1.0	ug/L
1,4-dichlorobenzene	MW-16	3/10/2025		1.2	1.0	ug/L
1,4-dichlorobenzene	MW-16	9/08/2025		1.5	1.0	ug/L
Acetone	MW-16	10/13/2017		13.1	10.0	ug/L
Benzene	MW-16	9/23/1993		2.4	2.0	ug/L
Benzene	MW-16	3/10/1994		2.1	2.0	ug/L
Benzene	MW-16	4/07/1995		1.3	1.0	ug/L
Benzene	MW-16	10/04/1995		1.3	1.0	ug/L
Benzene	MW-16	9/17/1996		1.6	1.0	ug/L
Benzene	MW-16	3/20/1997		2.1	2.0	ug/L
Benzene	MW-16	9/11/1997		2.8	2.0	ug/L
Benzene	MW-16	3/18/1999		1.6	1.0	ug/L
Benzene	MW-16	9/01/1999		2.3	2.0	ug/L
Benzene	MW-16	4/04/2000		1.7	1.0	ug/L
Benzene	MW-16	9/28/2000		1.5	1.0	ug/L
Benzene	MW-16	3/30/2001		1.8	1.0	ug/L
Benzene	MW-16	10/08/2001		1.6	1.0	ug/L
Benzene	MW-16	4/04/2002		1.6	1.0	ug/L
Benzene	MW-16	9/16/2002		1.5	1.0	ug/L
Benzene	MW-16	4/02/2003		1.2	1.0	ug/L
Benzene	MW-16	9/23/2003		1.6	1.0	ug/L
Benzene	MW-16	9/09/2004		1.1	1.0	ug/L
Benzene	MW-16	4/14/2005		1.6	1.0	ug/L
Benzene	MW-16	9/30/2005		1.8	1.0	ug/L
Benzene	MW-16	4/05/2006		1.5	1.0	ug/L
Benzene	MW-16	4/28/2007		1.2	1.0	ug/L
Benzene	MW-16	9/27/2007		1.2	1.0	ug/L
Benzene	MW-16	4/16/2008		1.4	1.0	ug/L
Benzene	MW-16	6/17/2008		1.4	1.0	ug/L
Benzene	MW-16	8/20/2008		1.5	1.0	ug/L
Benzene	MW-16	10/16/2008		1.4	1.0	ug/L
Benzene	MW-16	12/04/2008		1.9	1.0	ug/L
Benzene	MW-16	3/16/2009		1.7	1.0	ug/L
Benzene	MW-16	9/24/2009		1.2	1.0	ug/L
Benzene	MW-16	4/19/2010		1.2	1.0	ug/L
Benzene	MW-16	9/29/2010		1.7	1.0	ug/L
Benzene	MW-16	5/03/2011		1.3	1.0	ug/L
Benzene	MW-16	10/11/2011		1.3	1.0	ug/L
Benzene	MW-16	4/23/2012		1.0	1.0	ug/L
Benzene	MW-16	9/10/2012		1.2	1.0	ug/L
Benzene	MW-16	10/11/2013		1.1	1.0	ug/L
Benzene	MW-16	10/06/2015		1.0	1.0	ug/L
Benzene	MW-16	9/01/2016		1.2	1.0	ug/L
Benzene	MW-16	3/22/2017		1.3	1.0	ug/L
Benzene	MW-16	10/13/2017		1.1	1.0	ug/L
Benzene	MW-16	9/06/2018		1.7	1.0	ug/L
Benzene	MW-16	3/07/2019		2.1	1.0	ug/L
Benzene	MW-16	4/02/2020		1.6	1.0	ug/L
Benzene	MW-16	3/25/2021		1.5	1.0	ug/L
Benzene	MW-16	9/16/2021		1.3	1.0	ug/L
Benzene	MW-16	3/16/2022		1.6	1.0	ug/L
Benzene	MW-16	3/18/2024		1.5	1.0	ug/L
Benzene	MW-16	3/10/2025		1.1	1.0	ug/L
Chlorobenzene	MW-16	4/16/2008		9.1	1.0	ug/L
Chlorobenzene	MW-16	6/17/2008		9.9	1.0	ug/L
Chlorobenzene	MW-16	8/20/2008		10.4	1.0	ug/L
Chlorobenzene	MW-16	10/16/2008		9.2	1.0	ug/L
Chlorobenzene	MW-16	12/04/2008		14.5	1.0	ug/L
Chlorobenzene	MW-16	3/16/2009		12.3	1.0	ug/L
Chlorobenzene	MW-16	9/24/2009		8.7	1.0	ug/L
Chlorobenzene	MW-16	4/19/2010		9.2	1.0	ug/L
Chlorobenzene	MW-16	9/29/2010		11.3	1.0	ug/L
Chlorobenzene	MW-16	5/03/2011		9.6	1.0	ug/L
Chlorobenzene	MW-16	10/11/2011		8.7	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Chlorobenzene	MW-16	4/23/2012		6.6	1.0	ug/L
Chlorobenzene	MW-16	9/10/2012		7.5	1.0	ug/L
Chlorobenzene	MW-16	4/04/2013		5.8	1.0	ug/L
Chlorobenzene	MW-16	10/11/2013		6.0	1.0	ug/L
Chlorobenzene	MW-16	4/23/2014		4.6	1.0	ug/L
Chlorobenzene	MW-16	9/18/2014		4.3	1.0	ug/L
Chlorobenzene	MW-16	4/29/2015		4.4	1.0	ug/L
Chlorobenzene	MW-16	10/06/2015		4.9	1.0	ug/L
Chlorobenzene	MW-16	4/23/2016		3.5	1.0	ug/L
Chlorobenzene	MW-16	9/01/2016		6.0	1.0	ug/L
Chlorobenzene	MW-16	3/22/2017		6.4	1.0	ug/L
Chlorobenzene	MW-16	10/13/2017		5.1	1.0	ug/L
Chlorobenzene	MW-16	3/09/2018		4.7	1.0	ug/L
Chlorobenzene	MW-16	9/06/2018		8.1	1.0	ug/L
Chlorobenzene	MW-16	3/07/2019		9.7	1.0	ug/L
Chlorobenzene	MW-16	9/26/2019		4.8	1.0	ug/L
Chlorobenzene	MW-16	4/02/2020		8.8	1.0	ug/L
Chlorobenzene	MW-16	9/17/2020		4.7	1.0	ug/L
Chlorobenzene	MW-16	3/25/2021		5.8	1.0	ug/L
Chlorobenzene	MW-16	9/16/2021		7.3	1.0	ug/L
Chlorobenzene	MW-16	3/16/2022		5.2	1.0	ug/L
Chlorobenzene	MW-16	9/01/2022		2.1	1.0	ug/L
Chlorobenzene	MW-16	3/24/2023		3.0	1.0	ug/L
Chlorobenzene	MW-16	3/18/2024		5.2	1.0	ug/L
Chlorobenzene	MW-16	9/25/2024		2.3	1.0	ug/L
Chlorobenzene	MW-16	3/10/2025		2.7	1.0	ug/L
Chlorobenzene	MW-16	9/08/2025		4.3	1.0	ug/L
Cis-1,2-dichloroethylene	MW-16	9/01/2016		1.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-16	10/13/2017		1.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW-16	3/07/2019		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-16	3/25/2021		1.3	1.0	ug/L
Cis-1,2-dichloroethylene	MW-16	3/16/2022		2.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-16	3/10/2025		1.3	1.0	ug/L
Dichlorodifluoromethane	MW-16	10/11/2011		4.0	1.0	ug/L
Dichlorodifluoromethane	MW-16	4/23/2012		5.0	1.0	ug/L
Dichlorodifluoromethane	MW-16	9/10/2012		3.6	1.0	ug/L
Dichlorodifluoromethane	MW-16	4/04/2013		4.3	1.0	ug/L
Dichlorodifluoromethane	MW-16	10/11/2013		2.9	1.0	ug/L
Dichlorodifluoromethane	MW-16	4/23/2014		4.3	1.0	ug/L
Dichlorodifluoromethane	MW-16	9/18/2014		3.6	1.0	ug/L
Dichlorodifluoromethane	MW-16	4/29/2015		2.6	1.0	ug/L
Dichlorodifluoromethane	MW-16	10/06/2015		2.9	1.0	ug/L
Dichlorodifluoromethane	MW-16	4/23/2016		3.2	1.0	ug/L
Dichlorodifluoromethane	MW-16	9/01/2016		3.6	1.0	ug/L
Dichlorodifluoromethane	MW-16	3/22/2017		2.2	1.0	ug/L
Dichlorodifluoromethane	MW-16	10/13/2017		1.6	1.0	ug/L
Dichlorodifluoromethane	MW-16	3/09/2018		3.0	1.0	ug/L
Dichlorodifluoromethane	MW-16	3/07/2019		4.6	1.0	ug/L
Trichloroethylene	MW-16	9/23/1993		1.8	1.0	ug/L
Vinyl chloride	MW-16	6/17/2008		1.0	1.0	ug/L
Vinyl chloride	MW-16	9/24/2009		1.6	1.0	ug/L
Vinyl chloride	MW-16	3/07/2019		2.5	1.0	ug/L
1,1-dichloroethane	MW-18	4/23/2012		1.3	1.0	ug/L
Acetone	MW-18	10/13/2017		18	10	ug/L
Benzene	MW-18	10/13/2017		1.6	1.0	ug/L
Bromomethane	MW-18	10/11/2013		1.6	1.0	ug/L
Chloroethane	MW-18	10/13/2017		1.6	1.0	ug/L
Methyl iodide	MW-18	10/11/2013		1.5	1.0	ug/L
1,1-dichloroethane	MW-19	5/04/2011		1.3	1.0	ug/L
1,1-dichloroethane	MW-19	10/10/2011		1.7	1.0	ug/L
1,1-dichloroethane	MW-19	9/11/2012		1.6	1.0	ug/L
1,1-dichloroethane	MW-19	4/05/2013		1.8	1.0	ug/L
1,1-dichloroethane	MW-19	10/11/2013		2.9	1.0	ug/L
1,1-dichloroethane	MW-19	4/22/2014		2.5	1.0	ug/L
1,1-dichloroethane	MW-19	9/17/2014		1.8	1.0	ug/L
1,1-dichloroethane	MW-19	10/06/2015		1.3	1.0	ug/L
1,1-dichloroethane	MW-19	4/23/2016		2.2	1.0	ug/L
1,1-dichloroethane	MW-19	9/01/2016		1.6	1.0	ug/L
1,1-dichloroethane	MW-19	3/22/2017		2.2	1.0	ug/L
1,1-dichloroethane	MW-19	10/13/2017		1.0	1.0	ug/L
1,1-dichloroethane	MW-19	3/09/2018		3.1	1.0	ug/L
1,1-dichloroethane	MW-19	9/06/2018		3.0	1.0	ug/L
1,1-dichloroethane	MW-19	9/17/2020		2.3	1.0	ug/L
1,1-dichloroethane	MW-19	3/25/2021		2.6	1.0	ug/L
1,1-dichloroethane	MW-19	9/16/2021		3.4	1.0	ug/L
1,1-dichloroethane	MW-19	3/16/2022		4.9	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,1-dichloroethane	MW-19	9/01/2022		3.8	1.0	ug/L
1,1-dichloroethane	MW-19	3/24/2023		3.1	1.0	ug/L
1,1-dichloroethane	MW-19	9/07/2023		2.9	1.0	ug/L
1,1-dichloroethane	MW-19	3/18/2024		2.3	1.0	ug/L
Acetone	MW-19	10/13/2017		19.8	10.0	ug/L
Acetone	MW-19	9/06/2018		15.9	10.0	ug/L
Acetone	MW-19	9/26/2019		107.0	10.0	ug/L
Acetone	MW-19	9/17/2020		11.2	10.0	ug/L
Benzene	MW-19	3/16/2022		1.2	1.0	ug/L
Benzene	MW-19	9/01/2022		1.0	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-19	4/24/2012		33	8	ug/L
Chloroethane	MW-19	3/16/2022		1.4	1.0	ug/L
Chloroethane	MW-19	9/01/2022		1.2	1.0	ug/L
Chloromethane	MW-19	4/23/2016		3.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	10/11/2013		1.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	4/22/2014		1.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	4/23/2016		1.3	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	9/01/2016		1.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	3/22/2017		1.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	3/09/2018		1.9	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	9/06/2018		2.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	9/17/2020		1.7	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	3/25/2021		2.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	9/16/2021		2.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	3/16/2022		4.7	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	9/01/2022		3.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	3/24/2023		2.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	9/07/2023		1.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19	3/18/2024		1.4	1.0	ug/L
Dichlorodifluoromethane	MW-19	4/24/2012		1	1	ug/L
Dichlorodifluoromethane	MW-19	3/22/2017		1	1	ug/L
Vinyl chloride	MW-19	9/06/2018		3.2	1.0	ug/L
Vinyl chloride	MW-19	9/17/2020		1.4	1.0	ug/L
Vinyl chloride	MW-19	3/25/2021		1.2	1.0	ug/L
Vinyl chloride	MW-19	9/16/2021		1.9	1.0	ug/L
Vinyl chloride	MW-19	3/16/2022		1.9	1.0	ug/L
Vinyl chloride	MW-19	9/01/2022		2.1	1.0	ug/L
Vinyl chloride	MW-19	3/24/2023		1.0	1.0	ug/L
Vinyl chloride	MW-19	9/07/2023		1.2	1.0	ug/L
1,1-dichloroethane	MW-19R	11/25/2024		3.0	1.0	ug/L
1,1-dichloroethane	MW-19R	3/10/2025		2.7	1.0	ug/L
1,1-dichloroethane	MW-19R	9/08/2025		2.7	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19R	11/25/2024		2.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19R	3/10/2025		2.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-19R	9/08/2025		2.4	1.0	ug/L
Benzene	MW-1D	9/07/2023		1.1	1.0	ug/L
Benzene	MW-1D	3/18/2024		1.3	1.0	ug/L
Chlorobenzene	MW-1D	9/07/2023		1.0	1.0	ug/L
Chlorobenzene	MW-1D	3/18/2024		1.5	1.0	ug/L
Chloroethane	MW-1D	3/18/2024		1.1	1.0	ug/L
Acetone	MW-20	10/11/2013		13.0	10.0	ug/L
Acetone	MW-20	4/23/2014		18.8	10.0	ug/L
Acetone	MW-20	3/16/2022		57.2	10.0	ug/L
Benzene	MW-20	9/29/2010		1.0	1.0	ug/L
Benzene	MW-20	5/04/2011		1.1	1.0	ug/L
Benzene	MW-20	10/11/2011		1.4	1.0	ug/L
Benzene	MW-20	9/11/2012		2.3	1.0	ug/L
Benzene	MW-20	4/05/2013		1.8	1.0	ug/L
Benzene	MW-20	10/11/2013		1.5	1.0	ug/L
Benzene	MW-20	4/23/2014		1.6	1.0	ug/L
Benzene	MW-20	9/18/2014		1.9	1.0	ug/L
Benzene	MW-20	4/28/2015		1.9	1.0	ug/L
Benzene	MW-20	10/06/2015		2.0	1.0	ug/L
Benzene	MW-20	4/23/2016		1.5	1.0	ug/L
Benzene	MW-20	9/01/2016		1.8	1.0	ug/L
Benzene	MW-20	3/21/2017		2.6	1.0	ug/L
Benzene	MW-20	10/13/2017		2.0	1.0	ug/L
Benzene	MW-20	3/09/2018		2.9	1.0	ug/L
Benzene	MW-20	9/06/2018		3.6	1.0	ug/L
Benzene	MW-20	3/07/2019		2.5	1.0	ug/L
Benzene	MW-20	9/26/2019		3.1	1.0	ug/L
Benzene	MW-20	4/02/2020		2.8	1.0	ug/L
Benzene	MW-20	3/25/2021		3.3	1.0	ug/L
Benzene	MW-20	9/16/2021		3.0	1.0	ug/L
Benzene	MW-20	3/16/2022		3.8	1.0	ug/L
Benzene	MW-20	9/01/2022		2.6	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Benzene	MW-20	3/24/2023		2.6	1.0	ug/L
Benzene	MW-20	9/07/2023		2.0	1.0	ug/L
Benzene	MW-20	3/18/2024		2.2	1.0	ug/L
Benzene	MW-20	9/25/2024		2.1	1.0	ug/L
Benzene	MW-20	3/10/2025		1.1	1.0	ug/L
Benzene	MW-20	9/08/2025		1.2	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-20	9/16/2021		8	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-20	3/16/2022		7	6	ug/L
Chlorobenzene	MW-20	9/06/2018		1.2	1.0	ug/L
Chlorobenzene	MW-20	4/02/2020		1.0	1.0	ug/L
Chlorobenzene	MW-20	9/17/2020		1.2	1.0	ug/L
Chlorobenzene	MW-20	3/25/2021		1.1	1.0	ug/L
Chlorobenzene	MW-20	9/16/2021		1.1	1.0	ug/L
Chlorobenzene	MW-20	3/16/2022		1.1	1.0	ug/L
Chlorobenzene	MW-20	9/01/2022		1.1	1.0	ug/L
Chlorobenzene	MW-20	9/07/2023		1.0	1.0	ug/L
Chlorobenzene	MW-20	3/18/2024		1.2	1.0	ug/L
Chlorobenzene	MW-20	9/25/2024		1.9	1.0	ug/L
Chlorobenzene	MW-20	9/08/2025		1.0	1.0	ug/L
Chloroethane	MW-20	4/19/2010		1.9	1.0	ug/L
Chloroethane	MW-20	5/27/2010		3.0	1.0	ug/L
Chloroethane	MW-20	7/28/2010		3.1	1.0	ug/L
Chloroethane	MW-20	9/29/2010		4.0	1.0	ug/L
Chloroethane	MW-20	11/03/2010		3.0	1.0	ug/L
Chloroethane	MW-20	5/04/2011		4.0	1.0	ug/L
Chloroethane	MW-20	10/11/2011		4.3	1.0	ug/L
Chloroethane	MW-20	9/11/2012		4.5	1.0	ug/L
Chloroethane	MW-20	4/05/2013		2.3	1.0	ug/L
Chloroethane	MW-20	10/11/2013		3.8	1.0	ug/L
Chloroethane	MW-20	4/23/2014		3.0	1.0	ug/L
Chloroethane	MW-20	9/18/2014		2.1	1.0	ug/L
Chloroethane	MW-20	4/28/2015		2.9	1.0	ug/L
Chloroethane	MW-20	10/06/2015		2.3	1.0	ug/L
Chloroethane	MW-20	4/23/2016		1.6	1.0	ug/L
Chloroethane	MW-20	3/21/2017		2.4	1.0	ug/L
Chloroethane	MW-20	10/13/2017		2.3	1.0	ug/L
Chloroethane	MW-20	3/09/2018		2.0	1.0	ug/L
Chloroethane	MW-20	9/06/2018		2.8	1.0	ug/L
Chloroethane	MW-20	3/07/2019		1.6	1.0	ug/L
Chloroethane	MW-20	9/26/2019		2.0	1.0	ug/L
Chloroethane	MW-20	4/02/2020		1.6	1.0	ug/L
Chloroethane	MW-20	9/17/2020		1.6	1.0	ug/L
Chloroethane	MW-20	3/25/2021		1.6	1.0	ug/L
Chloroethane	MW-20	9/16/2021		1.8	1.0	ug/L
Chloroethane	MW-20	3/16/2022		1.6	1.0	ug/L
Chloroethane	MW-20	9/01/2022		1.7	1.0	ug/L
Chloroethane	MW-20	9/07/2023		1.5	1.0	ug/L
Chloroethane	MW-20	3/18/2024		1.2	1.0	ug/L
1,1,1-trichloroethane	MW-3	9/23/1993		1.1	1.0	ug/L
1,1-dichloroethane	MW-3	4/16/2008		1.8	1.0	ug/L
1,1-dichloroethane	MW-3	6/17/2008		1.4	1.0	ug/L
1,1-dichloroethane	MW-3	4/19/2010		3.1	1.0	ug/L
1,1-dichloroethane	MW-3	5/03/2011		1.7	1.0	ug/L
1,1-dichloroethane	MW-3	4/23/2012		1.6	1.0	ug/L
1,1-dichloroethane	MW-3	9/17/2014		1.3	1.0	ug/L
1,1-dichloroethane	MW-3	9/01/2016		1.5	1.0	ug/L
Acetone	MW-3	10/13/2017		15.4	10.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-3	9/16/2021		8	6	ug/L
Chloromethane	MW-3	4/19/2010		1	1	ug/L
Cis-1,2-dichloroethylene	MW-3	4/16/2008		4.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	6/17/2008		2.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	9/24/2009		1.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	4/19/2010		6.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	9/29/2010		1.3	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	5/03/2011		2.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	10/11/2011		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	4/23/2012		2.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	9/17/2014		2.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-3	9/01/2016		2.3	1.0	ug/L
Dichlorodifluoromethane	MW-3	4/19/2010		1.2	1.0	ug/L
Trichloroethylene	MW-3	9/23/1993		1.4	1.0	ug/L
1,1-dichloropropene	MW-7	3/25/2021		3.7	1.0	ug/L
2,4,5-t	MW-7	3/25/2021		2.0	.5	ug/L
Acetone	MW-7	10/13/2017		12.4	10.0	ug/L
Benzene	MW-7	9/16/2021		1.4	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-7	9/01/2022		9	6	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Attachment E

Assessment Statistics for VOCs

Table 1

**Confidence Intervals for Comparing the Mean of the Last
4 Measurements to an Assessment Monitoring Standard**

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
1,1-dichloroethane	ug/L	MW-16	4	0.800	0.356	1.176	0.381	1.219	140.000		
1,4-dichlorobenzene	ug/L	MW-16	4	1.250	0.557	1.176	0.595	1.905	75.000	dec	
Benzene	ug/L	MW-16	4	0.900	0.490	1.176	0.324	1.476	5.000		
Chlorobenzene	ug/L	MW-16	4	3.625	1.360	1.176	2.025	5.225	100.000	dec	
Chloroethane	ug/L	MW-16	4	0.500	0.000	1.176	0.500	0.500	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-16	4	0.700	0.400	1.176	0.229	1.171	70.000		
1,1-dichloroethane	ug/L	MW-19R	3								*
1,4-dichlorobenzene	ug/L	MW-19R	3								*
Benzene	ug/L	MW-19R	3								*
Chlorobenzene	ug/L	MW-19R	3								*
Chloroethane	ug/L	MW-19R	3								*
Cis-1,2-dichloroethylene	ug/L	MW-19R	3								*
1,1-dichloroethane	ug/L	MW-20	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	MW-20	4	0.500	0.000	1.176	0.500	0.500	75.000		
Benzene	ug/L	MW-20	4	1.650	0.580	1.176	0.967	2.333	5.000	inc	
Chlorobenzene	ug/L	MW-20	4	1.150	0.580	1.176	0.467	1.833	100.000		
Chloroethane	ug/L	MW-20	4	0.675	0.350	1.176	0.263	1.087	2800.000	dec	
Cis-1,2-dichloroethylene	ug/L	MW-20	4	0.500	0.000	1.176	0.500	0.500	70.000		

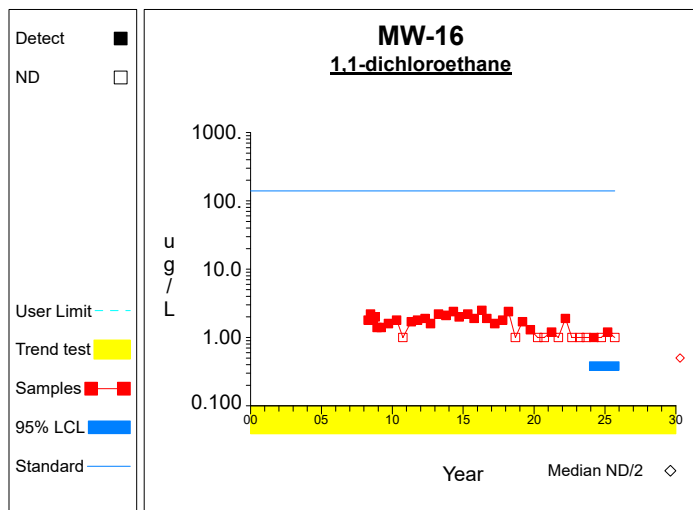
* - Insufficient Data

** - Significant Exceedance

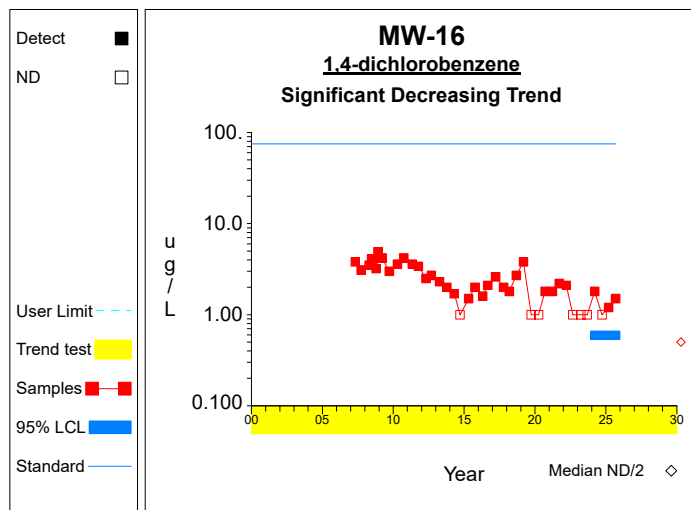
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

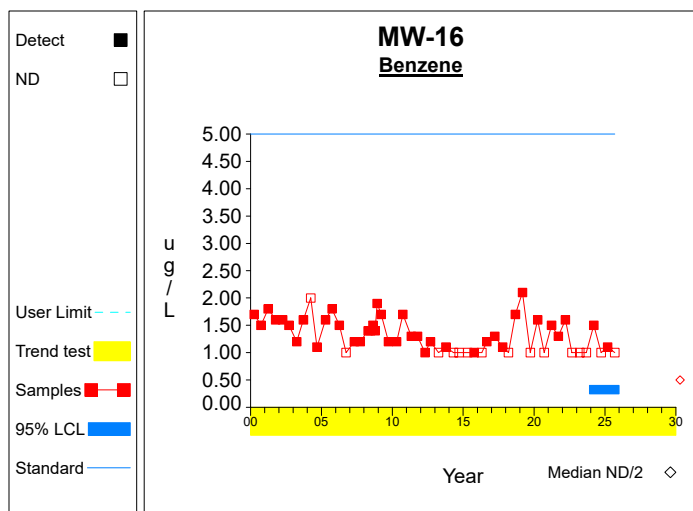
Confidence Limits (Assessment)



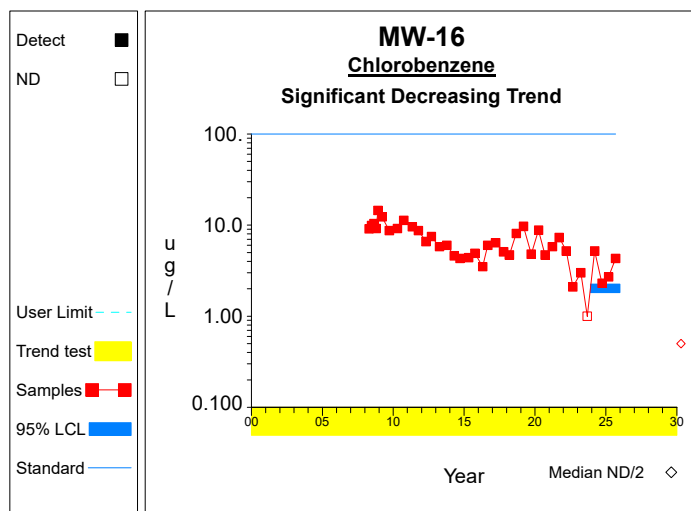
Graph 1



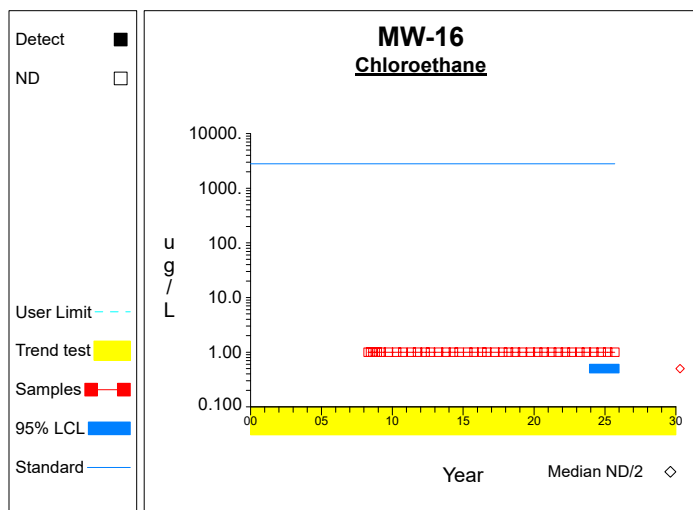
Graph 2



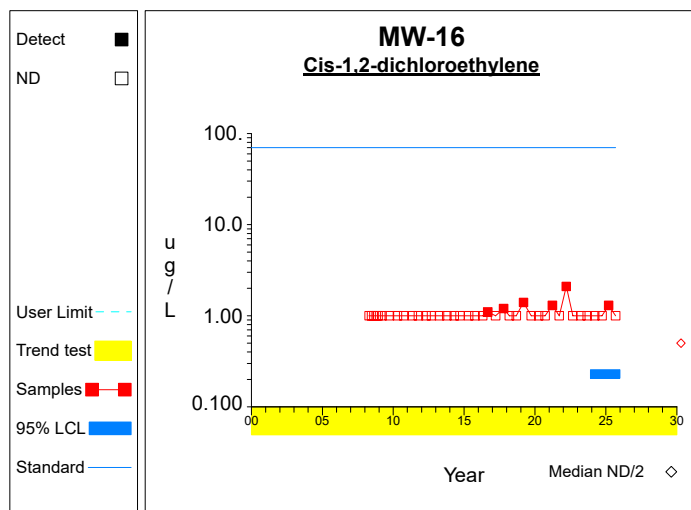
Graph 3



Graph 4

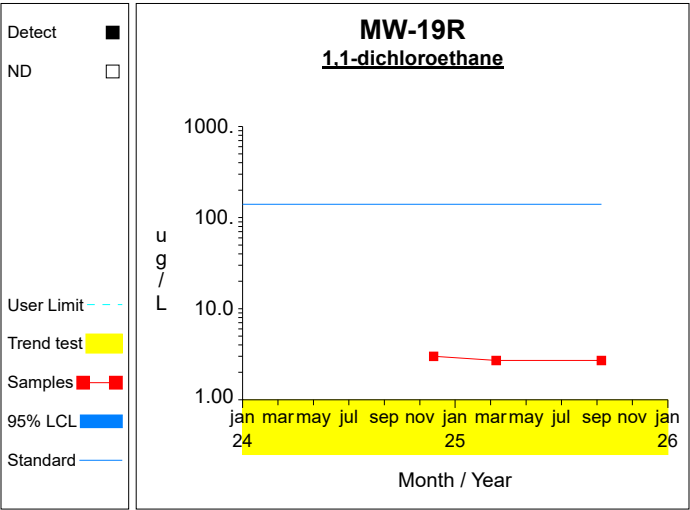


Graph 5

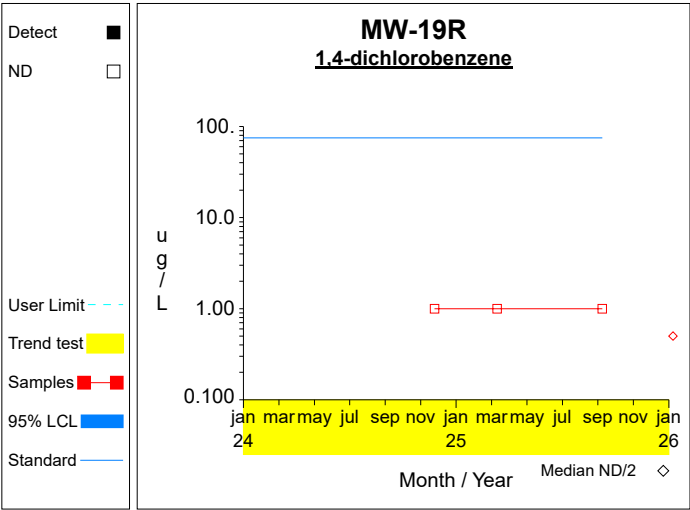


Graph 6

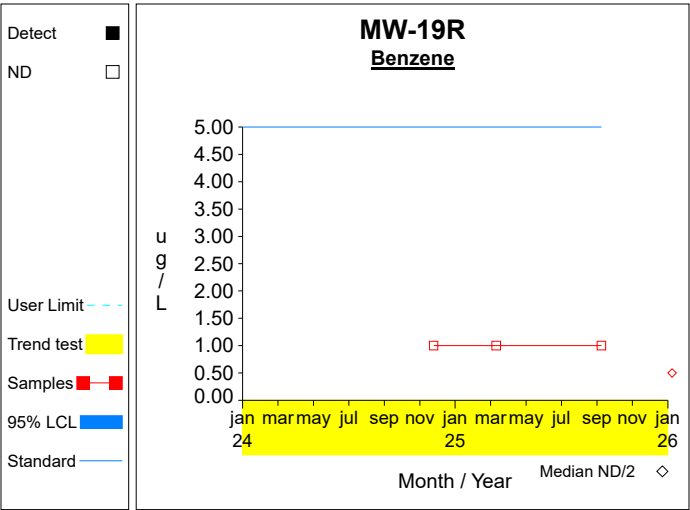
Confidence Limits (Assessment)



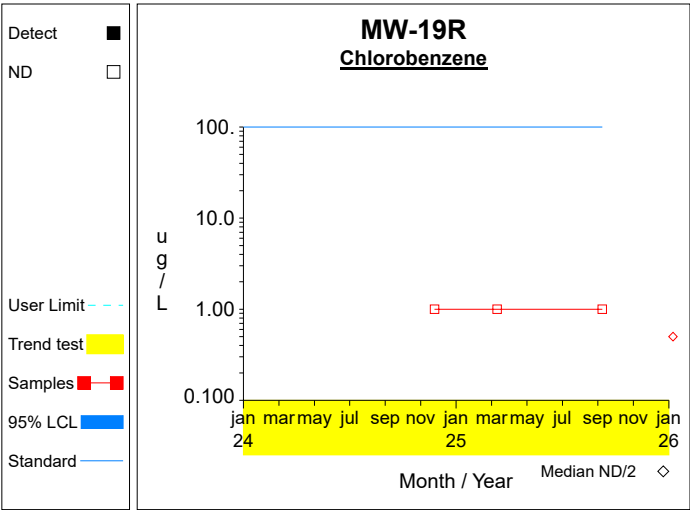
Graph 7



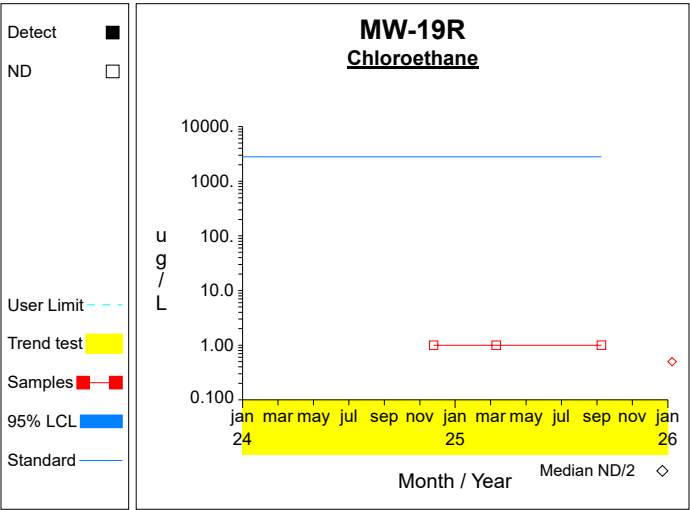
Graph 8



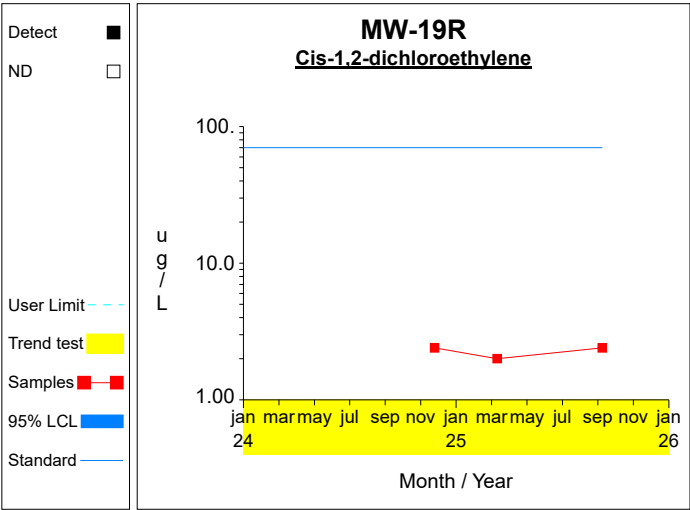
Graph 9



Graph 10

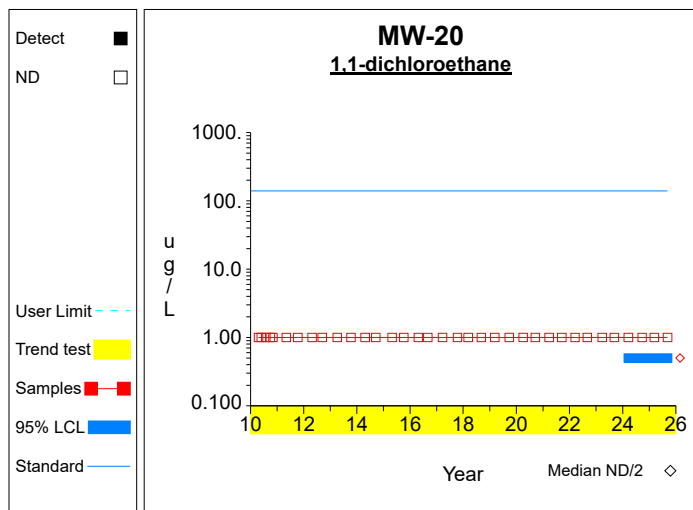


Graph 11

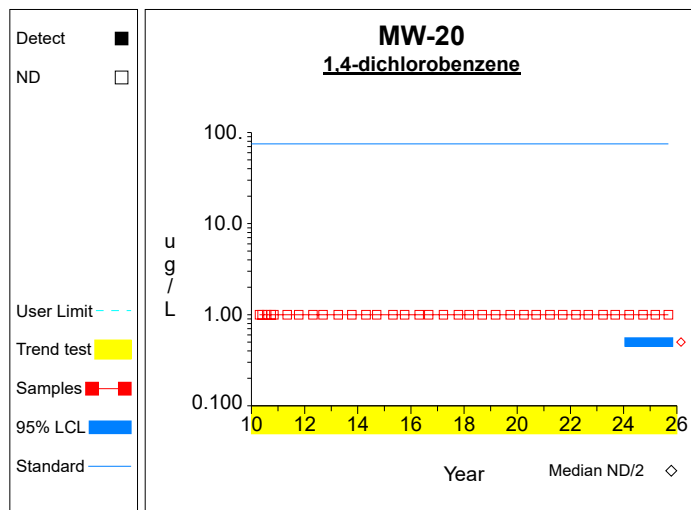


Graph 12

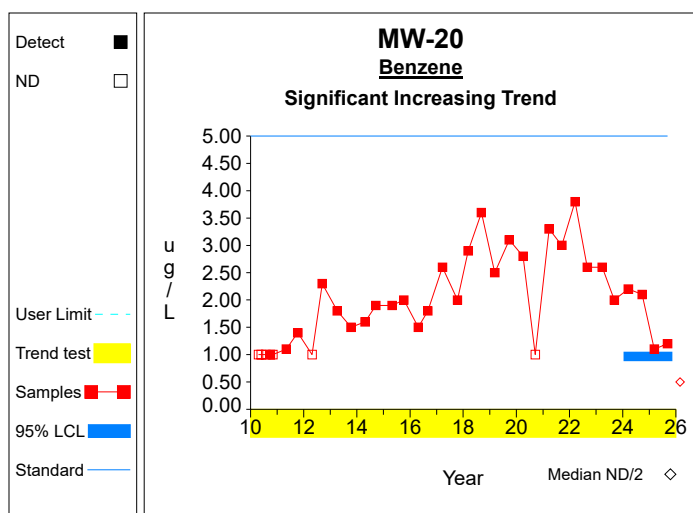
Confidence Limits (Assessment)



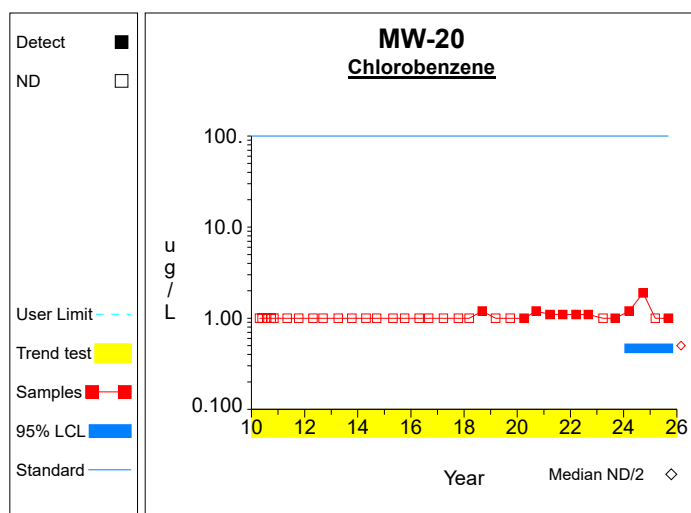
Graph 13



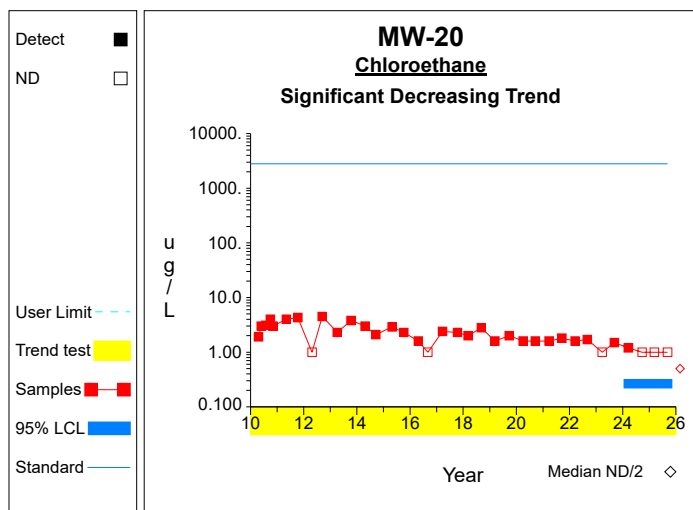
Graph 14



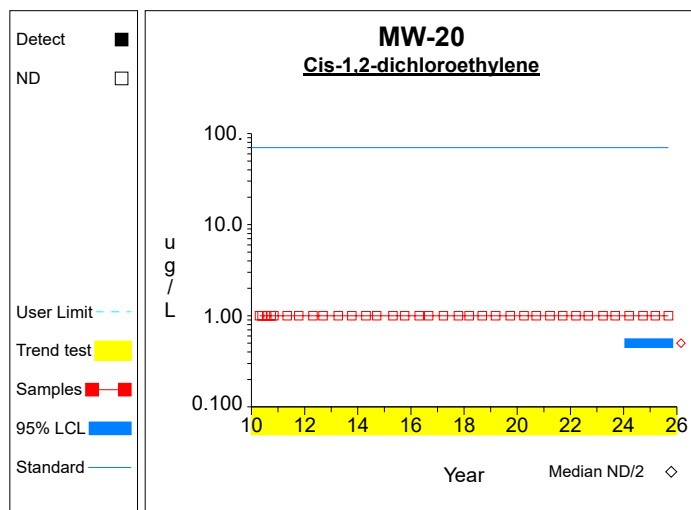
Graph 15



Graph 16



Graph 17



Graph 18

MW-14
Cadmium, total
Nonparametric Limit

u g / L

Year

Median ND

Detect

ND

Verify

User Limit

Up bkgnd

Samples

Limit

Year	Concentration (ug/L)	Type
1915	0.8	ND
1916	0.8	ND
1917	0.8	ND
1918	0.8	ND
1919	0.8	ND
1920	0.8	ND
1921	0.8	ND
1922	0.8	ND
1923	0.8	ND
1924	0.8	ND
1925	0.8	ND
1926	0.8	ND
1927	0.8	ND
1928	0.8	ND
1929	0.8	ND
1930	0.8	ND
1931	0.8	ND
1932	0.8	ND
1933	0.8	ND
1934	0.8	ND
1935	0.8	ND
1936	0.8	ND
1937	0.8	ND
1938	0.8	ND
1939	0.8	ND
1940	0.8	ND
1941	0.8	ND
1942	0.8	ND
1943	0.8	ND
1944	0.8	ND
1945	0.8	ND
1946	0.8	ND
1947	0.8	ND
1948	0.8	ND
1949	0.8	ND
1950	0.8	ND
1951	0.8	ND
1952	0.8	ND
1953	0.8	ND
1954	0.8	ND
1955	0.8	ND
1956	0.8	ND
1957	0.8	ND
1958	0.8	ND
1959	0.8	ND
1960	0.8	ND
1961	0.8	ND
1962	0.8	ND
1963	0.8	ND
1964	0.8	ND
1965	0.8	ND
1966	0.8	ND
1967	0.8	ND
1968	0.8	ND
1969	0.8	ND
1970	0.8	ND
1971	0.8	ND
1972	0.8	ND
1973	0.8	ND
1974	0.8	ND
1975	0.8	ND
1976	0.8	ND
1977	0.8	ND
1978	0.8	ND
1979	0.8	ND
1980	0.8	ND
1981	0.8	ND
1982	0.8	ND
1983	0.8	ND
1984	0.8	ND
1985	0.8	ND
1986	0.8	ND
1987	0.8	ND
1988	0.8	ND
1989	0.8	ND
1990	0.8	ND
1991	0.8	ND
1992	0.8	ND
1993	0.8	ND
1994	0.8	ND
1995	0.8	ND
1996	0.8	ND
1997	0.8	ND
1998	0.8	ND
1999	0.8	ND
2000	0.8	ND
2001	0.8	ND
2002	0.8	ND
2003	0.8	ND
2004	0.8	ND
2005	0.8	ND
2006	0.8	ND
2007	0.8	ND
2008	0.8	ND
2009	0.8	ND
2010	0.8	ND
2011	0.8	ND
2012	0.8	ND
2013	0.8	ND
2014	0.8	ND
2015	0.8	ND
2016	0.8	ND
2017	0.8	ND
2018	0.8	ND
2019	0.8	ND
2020	0.8	ND
2021	0.8	ND
2022	0.8	ND
2023	0.8	ND
2024	0.8	ND
2025	0.8	ND
2026	0.8	ND
1922	3.9	Sample
1925	3.5	Sample
1925	5.0	ND
1926	6.8	Sample
1926	0.2	Verify

Graph 80

Appendix C

Laboratory Reports for Reporting Period *With Chain of Custody*



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC0854

Project Description

6047

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Friday, March 28, 2025

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., Newton. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC0854

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: 6047

Project / PO Number: N/A
Received: 03/12/2025
Reported: 03/28/2025

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
MW-1D	1IC0854-01	Aqueous	GRAB		03/10/25 11:41	03/12/25 10:20
MW-3	1IC0854-02	Aqueous	GRAB		03/10/25 12:32	03/12/25 10:20
MW-7	1IC0854-03	Aqueous	GRAB		03/10/25 14:12	03/12/25 10:20
MW-10	1IC0854-04	Aqueous	GRAB		03/10/25 14:44	03/12/25 10:20
MW-13	1IC0854-05	Aqueous	GRAB		03/11/25 13:44	03/12/25 10:20
MW-14	1IC0854-06	Aqueous	GRAB		03/10/25 13:32	03/12/25 10:20
MW-16	1IC0854-07	Aqueous	GRAB		03/10/25 12:59	03/12/25 10:20
MW-17 (b)	1IC0854-08	Aqueous	GRAB		03/10/25 12:18	03/12/25 10:20
MW-18	1IC0854-09	Aqueous	GRAB		03/10/25 12:45	03/12/25 10:20
MW-19	1IC0854-10	Aqueous	GRAB		03/10/25 13:58	03/12/25 10:20
MW-20	1IC0854-11	Aqueous	GRAB		03/10/25 14:26	03/12/25 10:20
GWD-1	1IC0854-12	Aqueous	GRAB		03/10/25 13:12	03/12/25 10:20
Duplicate	1IC0854-13	Aqueous	GRAB		03/10/25 11:44	03/12/25 10:20
MW-44 (b)	1IC0854-14	Aqueous	GRAB		03/10/25 11:55	03/12/25 10:20
MW-53	1IC0854-15	Aqueous	GRAB		03/10/25 15:02	03/12/25 10:20
GWD-3	1IC0854-16	Aqueous	GRAB		03/10/25 15:14	03/12/25 10:20
GWD-4	1IC0854-17	Aqueous	GRAB		03/10/25 15:25	03/12/25 10:20



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC0854

Analytical Testing Parameters

Client Sample ID: MW-1D
Sample Matrix: Aqueous
Lab Sample ID: 1IC0854-01

Collected By: JGH
Collection Date: 03/10/2025 11:41

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Dichlorodifluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Acrolein	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Methyl Iodide	<2.0	2.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Acetonitrile	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
2,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
2-Butanone (MEK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,1-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/21/25 0000	03/21/25 1744	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Ethyl Methacrylate	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,3-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/21/25 0000	03/21/25 1744	CSM

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-1D
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-01

Collected By: JGH
Collection Date: 03/10/2025 11:41

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2157	CSM
1,2,4-Trichlorobenzene	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 1744	CSM
Allyl chloride	<1.0	1.0	ug/L	1		03/24/25 0000	03/24/25 1713	RAF
Chloroprene	<1.0	1.0	ug/L	1		03/24/25 0000	03/24/25 1713	RAF
Methacrylonitrile	<1.0	1.0	ug/L	1		03/24/25 0000	03/24/25 1713	RAF
Methyl Methacrylate	<1.0	1.0	ug/L	1		03/24/25 0000	03/24/25 1713	RAF
Propionitrile	<10.0	10.0	ug/L	1		03/24/25 0000	03/24/25 1713	RAF
Surrogate: Dibromofluoromethane	106	Limit: 57-134	% Rec	1		03/24/25 0000	03/24/25 1713	RAF
Surrogate: Dibromofluoromethane	98.2	Limit: 57-134	% Rec	1		03/13/25 0000	03/13/25 2157	CSM
Surrogate: Dibromofluoromethane	72.9	Limit: 57-134	% Rec	1		03/21/25 0000	03/21/25 1744	CSM
Surrogate: 1,2-Dichloroethane-d4	87.2	Limit: 53-140	% Rec	1		03/13/25 0000	03/13/25 2157	CSM
Surrogate: 1,2-Dichloroethane-d4	103	Limit: 53-140	% Rec	1		03/24/25 0000	03/24/25 1713	RAF
Surrogate: 1,2-Dichloroethane-d4	87.2	Limit: 53-140	% Rec	1		03/13/25 0000	03/13/25 2157	CSM
Surrogate: 1,2-Dichloroethane-d4	69.0	Limit: 53-140	% Rec	1		03/21/25 0000	03/21/25 1744	CSM
Surrogate: Toluene-d8	97.2	Limit: 86-114	% Rec	1		03/13/25 0000	03/13/25 2157	CSM
Surrogate: Toluene-d8	99.1	Limit: 86-114	% Rec	1		03/24/25 0000	03/24/25 1713	RAF
Surrogate: Toluene-d8	97.2	Limit: 86-114	% Rec	1		03/13/25 0000	03/13/25 2157	CSM
Surrogate: Toluene-d8	105	Limit: 86-114	% Rec	1		03/21/25 0000	03/21/25 1744	CSM
Surrogate: 4-Bromofluorobenzene	89.2	Limit: 78-121	% Rec	1		03/13/25 0000	03/13/25 2157	CSM
Surrogate: 4-Bromofluorobenzene	100	Limit: 78-121	% Rec	1		03/24/25 0000	03/24/25 1713	RAF
Surrogate: 4-Bromofluorobenzene	89.2	Limit: 78-121	% Rec	1		03/13/25 0000	03/13/25 2157	CSM
Surrogate: 4-Bromofluorobenzene	97.4	Limit: 78-121	% Rec	1		03/21/25 0000	03/21/25 1744	CSM

Determination of General Solvents	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 8015C								
Isobutanol	<1.0	1.0	mg/L	1		03/21/25 1147	03/23/25 1240	PDS

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

EPA 3520C/EPA 8270C



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-1D
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-01

Collected By: JGH
Collection Date: 03/10/2025 11:41

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
N-Nitrosodimethylamine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Methyl Methanesulfonate	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
N-Nitrosodiethylamine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
N-Nitrosomethylethylamine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Ethyl Methanesulfonate	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Phenol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Bis(2-Chloroethyl) Ether	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2-Chlorophenol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Benzyl Alcohol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2-Methylphenol (o-Cresol)	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Bis[2-Chloroisopropyl]ether	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
n-Nitroso-di-n-propylamine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
N-Nitrosopyrrolidine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Acetophenone	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
o-Toluidine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
(3 & 4)-Methylphenol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Hexachloroethane	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Nitrobenzene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
N-Nitrosopiperidine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Isophorone	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2-Nitrophenol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2,4-Dimethylphenol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Bis (2-Chloroethoxy) Methane	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2,4-Dichlorophenol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Naphthalene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
4-Chloroaniline	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2,6-Dichlorophenol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Hexachloropropene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Hexachlorobutadiene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
N-Nitrosodi-n-butylamine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
1,4-Phenylenediamine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
4-Chloro-3-methylphenol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2-Methylnaphthalene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Isosafrole	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
1,2,4,5-Tetrachlorobenzene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Hexachlorocyclopentadiene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2,4,6-Trichlorophenol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2,4,5-Trichlorophenol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Safrole	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2-Chloronaphthalene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2-Nitroaniline	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
1,4-Naphthoquinone	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Dimethylphthalate	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP

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CERTIFICATE OF ANALYSIS

1IC0854

Client Sample ID: MW-1D
Sample Matrix: Aqueous
Lab Sample ID: 1IC0854-01

Collected By: JGH
Collection Date: 03/10/2025 11:41

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
1,3-Dinitrobenzene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
1,2-Dinitrobenzene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2,6-Dinitrotoluene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Acenaphthylene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
3-Nitroaniline	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Acenaphthene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2,4-Dinitrophenol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
4-Nitrophenol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Dibenzofuran	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2,4-Dinitrotoluene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2,3,4,6-Tetrachlorophenol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Pentachlorobenzene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
1-Naphthylamine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2-Naphthylamine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Diethyl Phthalate	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Fluorene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
4-Chlorophenyl Phenyl Ether	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
4-Nitroaniline	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
5-Nitro-o-toluidine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
4,6-Dinitro-2-methylphenol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
N-Nitrosodiphenylamine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Diphenylamine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Azobenzene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Diallate	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
1,3,5-Trinitrobenzene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Phenacetin	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
4-Bromophenyl Phenyl Ether	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
4-Aminobiphenyl	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Pentachlorophenol	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Pronamide	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Pentachloronitrobenzene (PCNB)	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Phenanthrene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Anthracene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Di-n-butyl Phthalate	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Methapyrilene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Fluoranthene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Isodrin	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Chlorobenzilate	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Pyrene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
p-(Dimethylamino)azobenzene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
3,3-Dimethylbenzidine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Butyl Benzyl Phthalate	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Benzo(a)anthracene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-1D
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-01

Collected By: JGH
Collection Date: 03/10/2025 11:41

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Chrysene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Bis(2-Ethylhexyl) Phthalate	<6	6	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Kepone	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
3,3'-Dichlorobenzidine	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
2-Acetylaminofluorene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Di-n-octyl Phthalate	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Benzo(b)Fluoranthene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
7,12-Dimethylbenz [a] anthracene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Benzo(k)Fluoranthene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Benzo(a)Pyrene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
3-Methylcholanthrene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Dibenzo(a,h)anthracene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Indeno(1,2,3-cd)Pyrene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Benzo(g,h,i)perylene	<8	8	ug/L	1		03/17/25 1417	03/24/25 2044	EPP
Surrogate: 2-Fluorophenol	58.7	Limit: 10-149	% Rec	1		03/17/25 1417	03/24/25 2044	EPP
Surrogate: Phenol-d6	62.2	Limit: 10-143	% Rec	1		03/17/25 1417	03/24/25 2044	EPP
Surrogate: Nitrobenzene-d5	65.7	Limit: 20-149	% Rec	1		03/17/25 1417	03/24/25 2044	EPP
Surrogate: 2-Fluorobiphenyl	70.9	Limit: 11-146	% Rec	1		03/17/25 1417	03/24/25 2044	EPP
Surrogate: 2,4,6-Tribromophenol	87.7	Limit: 10-153	% Rec	1		03/17/25 1417	03/24/25 2044	EPP
Surrogate: Terphenyl-dl4	57.8	Limit: 27-155	% Rec	1		03/17/25 1417	03/24/25 2044	EPP

Determination of Organophosphorus Insecticides	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3510C/EPA 8141								
O,O,O-Triethyl phosphorothioate	<0.4	0.4	ug/L	1		03/17/25 1427	03/25/25 0001	EPP
Thionazin	<0.4	0.4	ug/L	1		03/17/25 1427	03/25/25 0001	EPP
Phorate	<0.4	0.4	ug/L	1		03/17/25 1427	03/25/25 0001	EPP
Dimethoate	<0.4	0.4	ug/L	1		03/17/25 1427	03/25/25 0001	EPP
Disulfoton	<0.4	0.4	ug/L	1		03/17/25 1427	03/25/25 0001	EPP
Methyl Parathion	<0.4	0.4	ug/L	1		03/17/25 1427	03/25/25 0001	EPP
Parathion	<0.4	0.4	ug/L	1		03/17/25 1427	03/25/25 0001	EPP
Famphur	<0.4	0.4	ug/L	1		03/17/25 1427	03/25/25 0001	EPP
Surrogate: 2-Nitro-m-xylene	57.5	Limit: 15-154	% Rec	1		03/17/25 1427	03/25/25 0001	EPP

Determination of Chlorinated Phenoxy Herbicides	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 8151A								
2,4-D	<2.0	2.0	ug/L	1		03/14/25 1557	03/21/25 2313	EPP
2,4,5-TP (Silvex)	<0.5	0.5	ug/L	1		03/14/25 1557	03/21/25 2313	EPP
2,4,5-T	<0.5	0.5	ug/L	1		03/14/25 1557	03/21/25 2313	EPP
Dinoseb	<0.5	0.5	ug/L	1		03/14/25 1557	03/21/25 2313	EPP
Surrogate: 2,5-Dichlorobenzoic Acid	116	Limit: 36-159	% Rec	1		03/14/25 1557	03/21/25 2313	EPP



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CERTIFICATE OF ANALYSIS

1IC0854

Client Sample ID: MW-1D
Sample Matrix: Aqueous
Lab Sample ID: 1IC0854-01

Collected By: JGH
Collection Date: 03/10/2025 11:41

Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

EPA 3510C/EPA 8081

Alpha-BHC	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Gamma-BHC [Lindane]	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Beta-BHC	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Heptachlor	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Delta-BHC	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Aldrin	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Heptachlor Epoxide	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Endosulfan I	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
4,4'-DDE	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Dieldrin	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Endrin	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
4,4'-DDD	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Endosulfan II	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
4,4'-DDT	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Endrin Aldehyde	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Endosulfan Sulfate	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Methoxychlor	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Chlordane	<0.10	0.10	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Toxaphene	<0.20	0.20	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Hexachlorobenzene	<0.05	0.05	ug/L	1		03/17/25 1421	03/21/25 1507	EPP
Surrogate: Tetrachloro-m-xylene	76.6	Limit: 40-116	% Rec	1		03/17/25 1421	03/21/25 1507	EPP

Determination of Polychlorinated Biphenyls (PCB)	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

EPA 3510C/EPA 8082

Arochlor 1016	<0.20	0.20	ug/L	1		03/17/25 1424	03/21/25 1507	EPP
Arochlor 1221	<0.20	0.20	ug/L	1		03/17/25 1424	03/21/25 1507	EPP
Arochlor 1232	<0.20	0.20	ug/L	1		03/17/25 1424	03/21/25 1507	EPP
Arochlor 1242	<0.20	0.20	ug/L	1		03/17/25 1424	03/21/25 1507	EPP
Arochlor 1248	<0.20	0.20	ug/L	1		03/17/25 1424	03/21/25 1507	EPP
Arochlor 1254	<0.20	0.20	ug/L	1		03/17/25 1424	03/21/25 1507	EPP
Arochlor 1260	<0.20	0.20	ug/L	1		03/17/25 1424	03/21/25 1507	EPP
Surrogate: Tetrachloro-m-xylene	76.6	Limit: 37-120	% Rec	1		03/17/25 1424	03/21/25 1507	EPP
Surrogate: Decachlorobiphenyl	61.1	Limit: 22-116	% Rec	1		03/17/25 1424	03/21/25 1507	EPP

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

EPA 376.2

Sulfide, total	<0.10	0.10	mg/L	1			03/17/25 0928	AKK

EPA 9014

Cyanide, total	<0.010	0.010	mg/L	1		03/20/25 0716	03/21/25 0908	CES

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CERTIFICATE OF ANALYSIS

1IC0854

Client Sample ID:	MW-1D	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	03/10/2025 11:41
Lab Sample ID:	1IC0854-01		

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0423	KKJ
Arsenic, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0423	KKJ
Barium, total	0.704	0.0040	mg/L	4	M1	03/17/25 0938	03/20/25 0423	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0423	KKJ
Cadmium, total	<0.0008	0.0008	mg/L	4		03/17/25 0938	03/20/25 0423	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0423	KKJ
Cobalt, total	0.0087	0.0004	mg/L	4		03/17/25 0938	03/20/25 0423	KKJ
Copper, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0423	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0423	KKJ
Nickel, total	0.0200	0.0040	mg/L	4		03/17/25 0938	03/20/25 0423	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0423	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0423	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0423	KKJ
Tin, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0423	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0423	KKJ
Zinc, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0423	KKJ
EPA 7470A								
Mercury, total	<0.00050	0.00050	mg/L	1		03/20/25 1536	03/21/25 1526	JAR

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-3
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-02

Collected By: JGH
Collection Date: 03/10/2025 12:32

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/20/25 0000	03/21/25 0414	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/20/25 0000	03/21/25 0414	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-3
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-02

Collected By: JGH
Collection Date: 03/10/2025 12:32

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2219	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/20/25 0000	03/21/25 0414	CSM
Surrogate: Dibromofluoromethane	73.3	Limit: 75-136	% Rec	1	S2	03/20/25 0000	03/21/25 0414	CSM
Surrogate: Dibromofluoromethane	96.5	Limit: 57-134	% Rec	1		03/13/25 0000	03/13/25 2219	CSM
Surrogate: Dibromofluoromethane	96.5	Limit: 75-136	% Rec	1		03/13/25 0000	03/13/25 2219	CSM
Surrogate: 1,2-Dichloroethane-d4	68.3	Limit: 61-142	% Rec	1		03/20/25 0000	03/21/25 0414	CSM
Surrogate: 1,2-Dichloroethane-d4	86.8	Limit: 61-142	% Rec	1		03/13/25 0000	03/13/25 2219	CSM
Surrogate: 1,2-Dichloroethane-d4	86.8	Limit: 53-140	% Rec	1		03/13/25 0000	03/13/25 2219	CSM
Surrogate: Toluene-d8	95.3	Limit: 86-114	% Rec	1		03/13/25 0000	03/13/25 2219	CSM
Surrogate: Toluene-d8	95.3	Limit: 82-121	% Rec	1		03/13/25 0000	03/13/25 2219	CSM
Surrogate: Toluene-d8	106	Limit: 82-121	% Rec	1		03/20/25 0000	03/21/25 0414	CSM
Surrogate: 4-Bromofluorobenzene	91.3	Limit: 78-121	% Rec	1		03/13/25 0000	03/13/25 2219	CSM
Surrogate: 4-Bromofluorobenzene	99.8	Limit: 80-116	% Rec	1		03/20/25 0000	03/21/25 0414	CSM
Surrogate: 4-Bromofluorobenzene	91.3	Limit: 80-116	% Rec	1		03/13/25 0000	03/13/25 2219	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0448	KKJ
Arsenic, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0448	KKJ
Barium, total	0.320	0.0040	mg/L	4		03/17/25 0938	03/20/25 0448	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0448	KKJ
Cadmium, total	0.0021	0.0008	mg/L	4		03/17/25 0938	03/20/25 0448	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0448	KKJ
Cobalt, total	<0.0004	0.0004	mg/L	4		03/17/25 0938	03/20/25 0448	KKJ
Copper, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0448	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0448	KKJ
Nickel, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0448	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0448	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0448	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0448	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0448	KKJ
Zinc, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0448	KKJ

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-7
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-03

Collected By: JGH
Collection Date: 03/10/2025 14:12

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/20/25 0000	03/21/25 0436	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/20/25 0000	03/21/25 0436	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-7
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-03

Collected By: JGH
Collection Date: 03/10/2025 14:12

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2241	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/20/25 0000	03/21/25 0436	CSM
Surrogate: Dibromofluoromethane	96.1	Limit: 75-136	% Rec	1		03/13/25 0000	03/13/25 2241	CSM
Surrogate: Dibromofluoromethane	96.1	Limit: 57-134	% Rec	1		03/13/25 0000	03/13/25 2241	CSM
Surrogate: Dibromofluoromethane	70.1	Limit: 75-136	% Rec	1	S2	03/20/25 0000	03/21/25 0436	CSM
Surrogate: 1,2-Dichloroethane-d4	86.0	Limit: 53-140	% Rec	1		03/13/25 0000	03/13/25 2241	CSM
Surrogate: 1,2-Dichloroethane-d4	86.0	Limit: 61-142	% Rec	1		03/13/25 0000	03/13/25 2241	CSM
Surrogate: 1,2-Dichloroethane-d4	67.0	Limit: 61-142	% Rec	1		03/20/25 0000	03/21/25 0436	CSM
Surrogate: Toluene-d8	97.2	Limit: 82-121	% Rec	1		03/13/25 0000	03/13/25 2241	CSM
Surrogate: Toluene-d8	97.2	Limit: 86-114	% Rec	1		03/13/25 0000	03/13/25 2241	CSM
Surrogate: Toluene-d8	108	Limit: 82-121	% Rec	1		03/20/25 0000	03/21/25 0436	CSM
Surrogate: 4-Bromofluorobenzene	91.6	Limit: 78-121	% Rec	1		03/13/25 0000	03/13/25 2241	CSM
Surrogate: 4-Bromofluorobenzene	91.6	Limit: 80-116	% Rec	1		03/13/25 0000	03/13/25 2241	CSM
Surrogate: 4-Bromofluorobenzene	95.0	Limit: 80-116	% Rec	1		03/20/25 0000	03/21/25 0436	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0454	KKJ
Arsenic, total	0.0066	0.0040	mg/L	4		03/17/25 0938	03/20/25 0454	KKJ
Barium, total	0.344	0.0040	mg/L	4		03/17/25 0938	03/20/25 0454	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0454	KKJ
Cadmium, total	0.0017	0.0008	mg/L	4		03/17/25 0938	03/20/25 0454	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0454	KKJ
Cobalt, total	0.0120	0.0004	mg/L	4		03/17/25 0938	03/20/25 0454	KKJ
Copper, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0454	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0454	KKJ
Nickel, total	0.0184	0.0040	mg/L	4		03/17/25 0938	03/20/25 0454	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0454	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0454	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0454	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0454	KKJ
Zinc, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0454	KKJ

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-10
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-04

Collected By: JGH
Collection Date: 03/10/2025 14:44

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/20/25 0000	03/21/25 0459	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/20/25 0000	03/21/25 0459	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-10
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-04

Collected By: JGH
Collection Date: 03/10/2025 14:44

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2303	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/20/25 0000	03/21/25 0459	CSM
Surrogate: Dibromofluoromethane	68.5	Limit: 75-136	% Rec	1	S2	03/20/25 0000	03/21/25 0459	CSM
Surrogate: Dibromofluoromethane	96.8	Limit: 75-136	% Rec	1		03/13/25 0000	03/13/25 2303	CSM
Surrogate: Dibromofluoromethane	96.8	Limit: 57-134	% Rec	1		03/13/25 0000	03/13/25 2303	CSM
Surrogate: 1,2-Dichloroethane-d4	84.7	Limit: 61-142	% Rec	1		03/13/25 0000	03/13/25 2303	CSM
Surrogate: 1,2-Dichloroethane-d4	84.7	Limit: 53-140	% Rec	1		03/13/25 0000	03/13/25 2303	CSM
Surrogate: 1,2-Dichloroethane-d4	64.5	Limit: 61-142	% Rec	1		03/20/25 0000	03/21/25 0459	CSM
Surrogate: Toluene-d8	95.7	Limit: 82-121	% Rec	1		03/13/25 0000	03/13/25 2303	CSM
Surrogate: Toluene-d8	95.7	Limit: 86-114	% Rec	1		03/13/25 0000	03/13/25 2303	CSM
Surrogate: Toluene-d8	105	Limit: 82-121	% Rec	1		03/20/25 0000	03/21/25 0459	CSM
Surrogate: 4-Bromofluorobenzene	88.2	Limit: 80-116	% Rec	1		03/13/25 0000	03/13/25 2303	CSM
Surrogate: 4-Bromofluorobenzene	88.2	Limit: 78-121	% Rec	1		03/13/25 0000	03/13/25 2303	CSM
Surrogate: 4-Bromofluorobenzene	99.6	Limit: 80-116	% Rec	1		03/20/25 0000	03/21/25 0459	CSM

Determination of Base/Neutral Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 8270C								
Bis(2-Ethylhexyl) Phthalate	10	6	ug/L	1		03/17/25 1538	03/20/25 1917	EPP
Surrogate: Nitrobenzene-d5	71.1	Limit: 20-149	% Rec	1		03/17/25 1538	03/20/25 1917	EPP
Surrogate: 2-Fluorobiphenyl	85.3	Limit: 11-146	% Rec	1		03/17/25 1538	03/20/25 1917	EPP
Surrogate: Terphenyl-d14	76.7	Limit: 27-155	% Rec	1		03/17/25 1538	03/20/25 1917	EPP

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0500	KKJ
Arsenic, total	0.0108	0.0040	mg/L	4		03/17/25 0938	03/20/25 0500	KKJ
Barium, total	0.494	0.0040	mg/L	4		03/17/25 0938	03/20/25 0500	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0500	KKJ
Cadmium, total	0.0011	0.0008	mg/L	4		03/17/25 0938	03/20/25 0500	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0500	KKJ
Cobalt, total	0.0009	0.0004	mg/L	4		03/17/25 0938	03/20/25 0500	KKJ
Copper, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0500	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0500	KKJ
Nickel, total	0.0054	0.0040	mg/L	4		03/17/25 0938	03/20/25 0500	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0500	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0500	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0500	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0500	KKJ
Zinc, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0500	KKJ



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC0854

Client Sample ID: MW-13
Sample Matrix: Aqueous
Lab Sample ID: 1IC0854-05

Collected By: JGH
Collection Date: 03/11/2025 13:44

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Vinyl Chloride	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Bromomethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Chloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Acetone	<10.0	10.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Methyl Iodide	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Carbon Disulfide	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Methylene Chloride	<5.0	5.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Acrylonitrile	<5.0	5.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Vinyl Acetate	<5.0	5.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Bromochloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Chloroform	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Benzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Trichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Dibromomethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Bromodichloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Toluene	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Dibromochloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Chlorobenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Ethylbenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Xylenes, total	<2.0	2.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Styrene	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Bromoform	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-13
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-05

Collected By: JGH
Collection Date: 03/11/2025 13:44

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/17/25 0000	03/18/25 0925	BDF
Surrogate: Dibromofluoromethane	80.9	Limit: 75-136	% Rec	1		03/17/25 0000	03/18/25 0925	BDF
Surrogate: Dibromofluoromethane	80.9	Limit: 57-134	% Rec	1		03/17/25 0000	03/18/25 0925	BDF
Surrogate: 1,2-Dichloroethane-d4	77.7	Limit: 53-140	% Rec	1		03/17/25 0000	03/18/25 0925	BDF
Surrogate: 1,2-Dichloroethane-d4	77.7	Limit: 61-142	% Rec	1		03/17/25 0000	03/18/25 0925	BDF
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec	1		03/17/25 0000	03/18/25 0925	BDF
Surrogate: Toluene-d8	103	Limit: 86-114	% Rec	1		03/17/25 0000	03/18/25 0925	BDF
Surrogate: 4-Bromofluorobenzene	96.1	Limit: 80-116	% Rec	1		03/17/25 0000	03/18/25 0925	BDF
Surrogate: 4-Bromofluorobenzene	96.1	Limit: 78-121	% Rec	1		03/17/25 0000	03/18/25 0925	BDF

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0518	KKJ
Arsenic, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0518	KKJ
Barium, total	0.0631	0.0040	mg/L	4		03/17/25 0938	03/20/25 0518	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0518	KKJ
Cadmium, total	0.0026	0.0008	mg/L	4		03/17/25 0938	03/20/25 0518	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0518	KKJ
Cobalt, total	<0.0004	0.0004	mg/L	4		03/17/25 0938	03/20/25 0518	KKJ
Copper, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0518	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0518	KKJ
Nickel, total	0.0052	0.0040	mg/L	4		03/17/25 0938	03/20/25 0518	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0518	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0518	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0518	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0518	KKJ
Zinc, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0518	KKJ

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-14
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-06

Collected By: JGH
Collection Date: 03/10/2025 13:32

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/20/25 0000	03/21/25 0521	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/20/25 0000	03/21/25 0521	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-14
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-06

Collected By: JGH
Collection Date: 03/10/2025 13:32

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 2326	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/20/25 0000	03/21/25 0521	CSM
Surrogate: Dibromofluoromethane	71.6	Limit: 75-136	% Rec	1	S2	03/20/25 0000	03/21/25 0521	CSM
Surrogate: Dibromofluoromethane	93.3	Limit: 75-136	% Rec	1		03/13/25 0000	03/13/25 2326	CSM
Surrogate: Dibromofluoromethane	93.3	Limit: 57-134	% Rec	1		03/13/25 0000	03/13/25 2326	CSM
Surrogate: 1,2-Dichloroethane-d4	68.8	Limit: 61-142	% Rec	1		03/20/25 0000	03/21/25 0521	CSM
Surrogate: 1,2-Dichloroethane-d4	82.9	Limit: 53-140	% Rec	1		03/13/25 0000	03/13/25 2326	CSM
Surrogate: 1,2-Dichloroethane-d4	82.9	Limit: 61-142	% Rec	1		03/13/25 0000	03/13/25 2326	CSM
Surrogate: Toluene-d8	107	Limit: 82-121	% Rec	1		03/20/25 0000	03/21/25 0521	CSM
Surrogate: Toluene-d8	96.8	Limit: 82-121	% Rec	1		03/13/25 0000	03/13/25 2326	CSM
Surrogate: Toluene-d8	96.8	Limit: 86-114	% Rec	1		03/13/25 0000	03/13/25 2326	CSM
Surrogate: 4-Bromofluorobenzene	95.8	Limit: 80-116	% Rec	1		03/20/25 0000	03/21/25 0521	CSM
Surrogate: 4-Bromofluorobenzene	91.1	Limit: 78-121	% Rec	1		03/13/25 0000	03/13/25 2326	CSM
Surrogate: 4-Bromofluorobenzene	91.1	Limit: 80-116	% Rec	1		03/13/25 0000	03/13/25 2326	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0525	KKJ
Arsenic, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0525	KKJ
Barium, total	0.135	0.0040	mg/L	4		03/17/25 0938	03/20/25 0525	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0525	KKJ
Cadmium, total	<0.0008	0.0008	mg/L	4		03/17/25 0938	03/20/25 0525	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0525	KKJ
Cobalt, total	<0.0004	0.0004	mg/L	4		03/17/25 0938	03/20/25 0525	KKJ
Copper, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0525	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0525	KKJ
Nickel, total	0.0043	0.0040	mg/L	4		03/17/25 0938	03/20/25 0525	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0525	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0525	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0525	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0525	KKJ
Zinc, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0525	KKJ

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-16
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-07

Collected By: JGH
Collection Date: 03/10/2025 12:59

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
1,1-Dichloroethane	1.2	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
cis-1,2-Dichloroethylene	1.3	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Benzene	1.1	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Chlorobenzene	2.7	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-16
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-07

Collected By: JGH
Collection Date: 03/10/2025 12:59

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
1,4-Dichlorobenzene	1.2	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1341	CSM
Surrogate: Dibromofluoromethane	91.0	Limit: 57-134	% Rec	1		03/13/25 0000	03/14/25 1341	CSM
Surrogate: Dibromofluoromethane	91.0	Limit: 75-136	% Rec	1		03/13/25 0000	03/14/25 1341	CSM
Surrogate: 1,2-Dichloroethane-d4	79.7	Limit: 53-140	% Rec	1		03/13/25 0000	03/14/25 1341	CSM
Surrogate: 1,2-Dichloroethane-d4	79.7	Limit: 61-142	% Rec	1		03/13/25 0000	03/14/25 1341	CSM
Surrogate: Toluene-d8	96.2	Limit: 86-114	% Rec	1		03/13/25 0000	03/14/25 1341	CSM
Surrogate: Toluene-d8	96.2	Limit: 82-121	% Rec	1		03/13/25 0000	03/14/25 1341	CSM
Surrogate: 4-Bromofluorobenzene	95.9	Limit: 78-121	% Rec	1		03/13/25 0000	03/14/25 1341	CSM
Surrogate: 4-Bromofluorobenzene	95.9	Limit: 80-116	% Rec	1		03/13/25 0000	03/14/25 1341	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0531	KKJ
Arsenic, total	0.0240	0.0040	mg/L	4		03/17/25 0938	03/20/25 0531	KKJ
Barium, total	0.697	0.0040	mg/L	4		03/17/25 0938	03/20/25 0531	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0531	KKJ
Cadmium, total	0.0011	0.0008	mg/L	4		03/17/25 0938	03/20/25 0531	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0531	KKJ
Cobalt, total	0.0009	0.0004	mg/L	4		03/17/25 0938	03/20/25 0531	KKJ
Copper, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0531	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0531	KKJ
Nickel, total	0.0278	0.0040	mg/L	4		03/17/25 0938	03/20/25 0531	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0531	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0531	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0531	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0531	KKJ
Zinc, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0531	KKJ

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-17 (b)
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-08

Collected By: JGH
Collection Date: 03/10/2025 12:18

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-17 (b)
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-08

Collected By: JGH
Collection Date: 03/10/2025 12:18

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1403	CSM
Surrogate: Dibromofluoromethane	88.2	Limit: 57-134	% Rec	1		03/13/25 0000	03/14/25 1403	CSM
Surrogate: Dibromofluoromethane	88.2	Limit: 75-136	% Rec	1		03/13/25 0000	03/14/25 1403	CSM
Surrogate: 1,2-Dichloroethane-d4	79.0	Limit: 61-142	% Rec	1		03/13/25 0000	03/14/25 1403	CSM
Surrogate: 1,2-Dichloroethane-d4	79.0	Limit: 53-140	% Rec	1		03/13/25 0000	03/14/25 1403	CSM
Surrogate: Toluene-d8	96.7	Limit: 82-121	% Rec	1		03/13/25 0000	03/14/25 1403	CSM
Surrogate: Toluene-d8	96.7	Limit: 86-114	% Rec	1		03/13/25 0000	03/14/25 1403	CSM
Surrogate: 4-Bromofluorobenzene	92.8	Limit: 80-116	% Rec	1		03/13/25 0000	03/14/25 1403	CSM
Surrogate: 4-Bromofluorobenzene	92.8	Limit: 78-121	% Rec	1		03/13/25 0000	03/14/25 1403	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0537	KKJ
Arsenic, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0537	KKJ
Barium, total	0.0847	0.0040	mg/L	4		03/17/25 0938	03/20/25 0537	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0537	KKJ
Cadmium, total	<0.0008	0.0008	mg/L	4		03/17/25 0938	03/20/25 0537	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0537	KKJ
Cobalt, total	<0.0004	0.0004	mg/L	4		03/17/25 0938	03/20/25 0537	KKJ
Copper, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0537	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0537	KKJ
Nickel, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0537	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0537	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0537	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0537	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0537	KKJ
Zinc, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0537	KKJ

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-18
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-09

Collected By: JGH
Collection Date: 03/10/2025 12:45

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-18
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-09

Collected By: JGH
Collection Date: 03/10/2025 12:45

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1425	CSM
Surrogate: Dibromofluoromethane	88.6	Limit: 75-136	% Rec	1		03/13/25 0000	03/14/25 1425	CSM
Surrogate: Dibromofluoromethane	88.6	Limit: 57-134	% Rec	1		03/13/25 0000	03/14/25 1425	CSM
Surrogate: 1,2-Dichloroethane-d4	78.9	Limit: 61-142	% Rec	1		03/13/25 0000	03/14/25 1425	CSM
Surrogate: 1,2-Dichloroethane-d4	78.9	Limit: 53-140	% Rec	1		03/13/25 0000	03/14/25 1425	CSM
Surrogate: Toluene-d8	96.1	Limit: 82-121	% Rec	1		03/13/25 0000	03/14/25 1425	CSM
Surrogate: Toluene-d8	96.1	Limit: 86-114	% Rec	1		03/13/25 0000	03/14/25 1425	CSM
Surrogate: 4-Bromofluorobenzene	91.2	Limit: 80-116	% Rec	1		03/13/25 0000	03/14/25 1425	CSM
Surrogate: 4-Bromofluorobenzene	91.2	Limit: 78-121	% Rec	1		03/13/25 0000	03/14/25 1425	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0543	KKJ
Arsenic, total	0.0312	0.0040	mg/L	4		03/17/25 0938	03/20/25 0543	KKJ
Barium, total	0.393	0.0040	mg/L	4		03/17/25 0938	03/20/25 0543	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0543	KKJ
Cadmium, total	<0.0008	0.0008	mg/L	4		03/17/25 0938	03/20/25 0543	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0543	KKJ
Cobalt, total	0.0008	0.0004	mg/L	4		03/17/25 0938	03/20/25 0543	KKJ
Copper, total	0.0162	0.0040	mg/L	4		03/17/25 0938	03/20/25 0543	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0543	KKJ
Nickel, total	0.0082	0.0040	mg/L	4		03/17/25 0938	03/20/25 0543	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0543	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0543	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0543	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0543	KKJ
Zinc, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0543	KKJ

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-19
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-10

Collected By: JGH
Collection Date: 03/10/2025 13:58

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
1,1-Dichloroethane	2.7	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
cis-1,2-Dichloroethylene	2.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-19
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-10

Collected By: JGH
Collection Date: 03/10/2025 13:58

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1447	CSM
Surrogate: Dibromofluoromethane	91.9	Limit: 57-134	% Rec	1		03/13/25 0000	03/14/25 1447	CSM
Surrogate: Dibromofluoromethane	91.9	Limit: 75-136	% Rec	1		03/13/25 0000	03/14/25 1447	CSM
Surrogate: 1,2-Dichloroethane-d4	82.1	Limit: 61-142	% Rec	1		03/13/25 0000	03/14/25 1447	CSM
Surrogate: 1,2-Dichloroethane-d4	82.1	Limit: 53-140	% Rec	1		03/13/25 0000	03/14/25 1447	CSM
Surrogate: Toluene-d8	95.6	Limit: 86-114	% Rec	1		03/13/25 0000	03/14/25 1447	CSM
Surrogate: Toluene-d8	95.6	Limit: 82-121	% Rec	1		03/13/25 0000	03/14/25 1447	CSM
Surrogate: 4-Bromofluorobenzene	93.6	Limit: 78-121	% Rec	1		03/13/25 0000	03/14/25 1447	CSM
Surrogate: 4-Bromofluorobenzene	93.6	Limit: 80-116	% Rec	1		03/13/25 0000	03/14/25 1447	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0549	KKJ
Arsenic, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0549	KKJ
Barium, total	0.259	0.0040	mg/L	4		03/17/25 0938	03/20/25 0549	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0549	KKJ
Cadmium, total	<0.0008	0.0008	mg/L	4		03/17/25 0938	03/20/25 0549	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0549	KKJ
Cobalt, total	0.0013	0.0004	mg/L	4		03/17/25 0938	03/20/25 0549	KKJ
Copper, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0549	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0549	KKJ
Nickel, total	0.0097	0.0040	mg/L	4		03/17/25 0938	03/20/25 0549	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0549	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0549	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0549	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0549	KKJ
Zinc, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0549	KKJ

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CERTIFICATE OF ANALYSIS

1IC0854

Client Sample ID: MW-20
Sample Matrix: Aqueous
Lab Sample ID: 1IC0854-11

Collected By: JGH
Collection Date: 03/10/2025 14:26

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Benzene	1.1	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/20/25 0000	03/21/25 0543	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/20/25 0000	03/21/25 0543	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-20
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-11

Collected By: JGH
Collection Date: 03/10/2025 14:26

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1510	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/20/25 0000	03/21/25 0543	CSM
Surrogate: Dibromofluoromethane	92.0	Limit: 57-134	% Rec	1		03/13/25 0000	03/14/25 1510	CSM
Surrogate: Dibromofluoromethane	92.0	Limit: 75-136	% Rec	1		03/13/25 0000	03/14/25 1510	CSM
Surrogate: Dibromofluoromethane	73.1	Limit: 75-136	% Rec	1	S2	03/20/25 0000	03/21/25 0543	CSM
Surrogate: 1,2-Dichloroethane-d4	81.5	Limit: 53-140	% Rec	1		03/13/25 0000	03/14/25 1510	CSM
Surrogate: 1,2-Dichloroethane-d4	81.5	Limit: 61-142	% Rec	1		03/13/25 0000	03/14/25 1510	CSM
Surrogate: 1,2-Dichloroethane-d4	69.6	Limit: 61-142	% Rec	1		03/20/25 0000	03/21/25 0543	CSM
Surrogate: Toluene-d8	96.7	Limit: 86-114	% Rec	1		03/13/25 0000	03/14/25 1510	CSM
Surrogate: Toluene-d8	107	Limit: 82-121	% Rec	1		03/20/25 0000	03/21/25 0543	CSM
Surrogate: Toluene-d8	96.7	Limit: 82-121	% Rec	1		03/13/25 0000	03/14/25 1510	CSM
Surrogate: 4-Bromofluorobenzene	102	Limit: 78-121	% Rec	1		03/13/25 0000	03/14/25 1510	CSM
Surrogate: 4-Bromofluorobenzene	102	Limit: 80-116	% Rec	1		03/13/25 0000	03/14/25 1510	CSM
Surrogate: 4-Bromofluorobenzene	95.1	Limit: 80-116	% Rec	1		03/20/25 0000	03/21/25 0543	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0555	KKJ
Arsenic, total	0.0549	0.0040	mg/L	4		03/17/25 0938	03/20/25 0555	KKJ
Barium, total	1.64	0.0040	mg/L	4		03/17/25 0938	03/20/25 0555	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0555	KKJ
Cadmium, total	0.0014	0.0008	mg/L	4		03/17/25 0938	03/20/25 0555	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0555	KKJ
Cobalt, total	0.0072	0.0004	mg/L	4		03/17/25 0938	03/20/25 0555	KKJ
Copper, total	0.0264	0.0040	mg/L	4		03/17/25 0938	03/20/25 0555	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0555	KKJ
Nickel, total	0.0209	0.0040	mg/L	4		03/17/25 0938	03/20/25 0555	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0555	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0555	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0555	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0555	KKJ
Zinc, total	0.0449	0.0200	mg/L	4		03/17/25 0938	03/20/25 0555	KKJ

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: GWD-1
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-12

Collected By: JGH
Collection Date: 03/10/2025 13:12

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: GWD-1
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-12

Collected By: JGH
Collection Date: 03/10/2025 13:12

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1532	CSM
Surrogate: Dibromofluoromethane	86.4	Limit: 57-134	% Rec	1		03/13/25 0000	03/14/25 1532	CSM
Surrogate: Dibromofluoromethane	86.4	Limit: 75-136	% Rec	1		03/13/25 0000	03/14/25 1532	CSM
Surrogate: 1,2-Dichloroethane-d4	77.8	Limit: 61-142	% Rec	1		03/13/25 0000	03/14/25 1532	CSM
Surrogate: 1,2-Dichloroethane-d4	77.8	Limit: 53-140	% Rec	1		03/13/25 0000	03/14/25 1532	CSM
Surrogate: Toluene-d8	96.6	Limit: 82-121	% Rec	1		03/13/25 0000	03/14/25 1532	CSM
Surrogate: Toluene-d8	96.6	Limit: 86-114	% Rec	1		03/13/25 0000	03/14/25 1532	CSM
Surrogate: 4-Bromofluorobenzene	91.7	Limit: 78-121	% Rec	1		03/13/25 0000	03/14/25 1532	CSM
Surrogate: 4-Bromofluorobenzene	91.7	Limit: 80-116	% Rec	1		03/13/25 0000	03/14/25 1532	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0602	KKJ
Arsenic, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0602	KKJ
Barium, total	0.219	0.0040	mg/L	4		03/17/25 0938	03/20/25 0602	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0602	KKJ
Cadmium, total	<0.0008	0.0008	mg/L	4		03/17/25 0938	03/20/25 0602	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0602	KKJ
Cobalt, total	0.0009	0.0004	mg/L	4		03/17/25 0938	03/20/25 0602	KKJ
Copper, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0602	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0602	KKJ
Nickel, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0602	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0602	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0602	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0602	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0602	KKJ
Zinc, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0602	KKJ

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: Duplicate
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-13

Collected By: JGH
Collection Date: 03/10/2025 11:44

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: Duplicate
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-13

Collected By: JGH
Collection Date: 03/10/2025 11:44

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1554	CSM
Surrogate: Dibromofluoromethane	90.9	Limit: 75-136	% Rec	1		03/13/25 0000	03/14/25 1554	CSM
Surrogate: Dibromofluoromethane	90.9	Limit: 57-134	% Rec	1		03/13/25 0000	03/14/25 1554	CSM
Surrogate: 1,2-Dichloroethane-d4	79.2	Limit: 53-140	% Rec	1		03/13/25 0000	03/14/25 1554	CSM
Surrogate: 1,2-Dichloroethane-d4	79.2	Limit: 61-142	% Rec	1		03/13/25 0000	03/14/25 1554	CSM
Surrogate: Toluene-d8	96.2	Limit: 82-121	% Rec	1		03/13/25 0000	03/14/25 1554	CSM
Surrogate: Toluene-d8	96.2	Limit: 86-114	% Rec	1		03/13/25 0000	03/14/25 1554	CSM
Surrogate: 4-Bromofluorobenzene	93.4	Limit: 78-121	% Rec	1		03/13/25 0000	03/14/25 1554	CSM
Surrogate: 4-Bromofluorobenzene	93.4	Limit: 80-116	% Rec	1		03/13/25 0000	03/14/25 1554	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0608	KKJ
Arsenic, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0608	KKJ
Barium, total	0.699	0.0040	mg/L	4		03/17/25 0938	03/20/25 0608	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0608	KKJ
Cadmium, total	<0.0008	0.0008	mg/L	4		03/17/25 0938	03/20/25 0608	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0608	KKJ
Cobalt, total	0.0084	0.0004	mg/L	4		03/17/25 0938	03/20/25 0608	KKJ
Copper, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0608	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0608	KKJ
Nickel, total	0.0195	0.0040	mg/L	4		03/17/25 0938	03/20/25 0608	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0608	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0608	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0608	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0608	KKJ
Zinc, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0608	KKJ

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-44 (b)
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-14

Collected By: JGH
Collection Date: 03/10/2025 11:55

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-44 (b)
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-14

Collected By: JGH
Collection Date: 03/10/2025 11:55

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/13/25 0000	03/14/25 1617	CSM
Surrogate: Dibromofluoromethane	88.8	Limit: 57-134	% Rec	1		03/13/25 0000	03/14/25 1617	CSM
Surrogate: Dibromofluoromethane	88.8	Limit: 75-136	% Rec	1		03/13/25 0000	03/14/25 1617	CSM
Surrogate: 1,2-Dichloroethane-d4	78.7	Limit: 61-142	% Rec	1		03/13/25 0000	03/14/25 1617	CSM
Surrogate: 1,2-Dichloroethane-d4	78.7	Limit: 53-140	% Rec	1		03/13/25 0000	03/14/25 1617	CSM
Surrogate: Toluene-d8	96.4	Limit: 86-114	% Rec	1		03/13/25 0000	03/14/25 1617	CSM
Surrogate: Toluene-d8	96.4	Limit: 82-121	% Rec	1		03/13/25 0000	03/14/25 1617	CSM
Surrogate: 4-Bromofluorobenzene	92.5	Limit: 80-116	% Rec	1		03/13/25 0000	03/14/25 1617	CSM
Surrogate: 4-Bromofluorobenzene	92.5	Limit: 78-121	% Rec	1		03/13/25 0000	03/14/25 1617	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0614	KKJ
Arsenic, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0614	KKJ
Barium, total	0.123	0.0040	mg/L	4		03/17/25 0938	03/20/25 0614	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0614	KKJ
Cadmium, total	<0.0008	0.0008	mg/L	4		03/17/25 0938	03/20/25 0614	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0614	KKJ
Cobalt, total	<0.0004	0.0004	mg/L	4		03/17/25 0938	03/20/25 0614	KKJ
Copper, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0614	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0614	KKJ
Nickel, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0614	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0614	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0614	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0614	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0614	KKJ
Zinc, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0614	KKJ

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-53
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-15

Collected By: JGH
Collection Date: 03/10/2025 15:02

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Acetone	<10.0	10.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Chloroform	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Benzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Toluene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Styrene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Bromoform	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: MW-53
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-15

Collected By: JGH
Collection Date: 03/10/2025 15:02

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2034	CSM
Surrogate: Dibromofluoromethane	114	Limit: 57-134	% Rec	1		03/17/25 0000	03/17/25 2034	CSM
Surrogate: Dibromofluoromethane	114	Limit: 75-136	% Rec	1		03/17/25 0000	03/17/25 2034	CSM
Surrogate: 1,2-Dichloroethane-d4	119	Limit: 53-140	% Rec	1		03/17/25 0000	03/17/25 2034	CSM
Surrogate: 1,2-Dichloroethane-d4	119	Limit: 61-142	% Rec	1		03/17/25 0000	03/17/25 2034	CSM
Surrogate: Toluene-d8	94.3	Limit: 86-114	% Rec	1		03/17/25 0000	03/17/25 2034	CSM
Surrogate: Toluene-d8	94.3	Limit: 82-121	% Rec	1		03/17/25 0000	03/17/25 2034	CSM
Surrogate: 4-Bromofluorobenzene	87.3	Limit: 78-121	% Rec	1		03/17/25 0000	03/17/25 2034	CSM
Surrogate: 4-Bromofluorobenzene	87.3	Limit: 80-116	% Rec	1		03/17/25 0000	03/17/25 2034	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0632	KKJ
Arsenic, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0632	KKJ
Barium, total	0.0793	0.0040	mg/L	4		03/17/25 0938	03/20/25 0632	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0632	KKJ
Cadmium, total	<0.0008	0.0008	mg/L	4		03/17/25 0938	03/20/25 0632	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0632	KKJ
Cobalt, total	<0.0004	0.0004	mg/L	4		03/17/25 0938	03/20/25 0632	KKJ
Copper, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0632	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0632	KKJ
Nickel, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0632	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0632	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0632	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0632	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0632	KKJ
Zinc, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0632	KKJ

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: GWD-3
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-16

Collected By: JGH
Collection Date: 03/10/2025 15:14

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Acetone	<10.0	10.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Chloroform	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Benzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Toluene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Styrene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Bromoform	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: GWD-3
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-16

Collected By: JGH
Collection Date: 03/10/2025 15:14

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2056	CSM
Surrogate: Dibromofluoromethane	113	Limit: 75-136	% Rec	1		03/17/25 0000	03/17/25 2056	CSM
Surrogate: Dibromofluoromethane	113	Limit: 57-134	% Rec	1		03/17/25 0000	03/17/25 2056	CSM
Surrogate: 1,2-Dichloroethane-d4	120	Limit: 53-140	% Rec	1		03/17/25 0000	03/17/25 2056	CSM
Surrogate: 1,2-Dichloroethane-d4	120	Limit: 61-142	% Rec	1		03/17/25 0000	03/17/25 2056	CSM
Surrogate: Toluene-d8	95.6	Limit: 82-121	% Rec	1		03/17/25 0000	03/17/25 2056	CSM
Surrogate: Toluene-d8	95.6	Limit: 86-114	% Rec	1		03/17/25 0000	03/17/25 2056	CSM
Surrogate: 4-Bromofluorobenzene	94.2	Limit: 80-116	% Rec	1		03/17/25 0000	03/17/25 2056	CSM
Surrogate: 4-Bromofluorobenzene	94.2	Limit: 78-121	% Rec	1		03/17/25 0000	03/17/25 2056	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0638	KKJ
Arsenic, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0638	KKJ
Barium, total	0.258	0.0040	mg/L	4		03/17/25 0938	03/20/25 0638	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0638	KKJ
Cadmium, total	<0.0008	0.0008	mg/L	4		03/17/25 0938	03/20/25 0638	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0638	KKJ
Cobalt, total	<0.0004	0.0004	mg/L	4		03/17/25 0938	03/20/25 0638	KKJ
Copper, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0638	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0638	KKJ
Nickel, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0638	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0638	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0638	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0638	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0638	KKJ
Zinc, total	0.120	0.0200	mg/L	4		03/17/25 0938	03/20/25 0638	KKJ

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: GWD-4
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-17

Collected By: JGH
Collection Date: 03/10/2025 15:25

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Acetone	<10.0	10.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Chloroform	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Benzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Toluene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Styrene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Bromoform	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM

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CERTIFICATE OF ANALYSIS

11C0854

Client Sample ID: GWD-4
Sample Matrix: Aqueous
Lab Sample ID: 11C0854-17

Collected By: JGH
Collection Date: 03/10/2025 15:25

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/17/25 0000	03/17/25 2119	CSM
Surrogate: Dibromofluoromethane	114	Limit: 57-134	% Rec	1		03/17/25 0000	03/17/25 2119	CSM
Surrogate: Dibromofluoromethane	114	Limit: 75-136	% Rec	1		03/17/25 0000	03/17/25 2119	CSM
Surrogate: 1,2-Dichloroethane-d4	117	Limit: 53-140	% Rec	1		03/17/25 0000	03/17/25 2119	CSM
Surrogate: 1,2-Dichloroethane-d4	117	Limit: 61-142	% Rec	1		03/17/25 0000	03/17/25 2119	CSM
Surrogate: Toluene-d8	92.6	Limit: 86-114	% Rec	1		03/17/25 0000	03/17/25 2119	CSM
Surrogate: Toluene-d8	92.6	Limit: 82-121	% Rec	1		03/17/25 0000	03/17/25 2119	CSM
Surrogate: 4-Bromofluorobenzene	93.9	Limit: 78-121	% Rec	1		03/17/25 0000	03/17/25 2119	CSM
Surrogate: 4-Bromofluorobenzene	93.9	Limit: 80-116	% Rec	1		03/17/25 0000	03/17/25 2119	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0645	KKJ
Arsenic, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0645	KKJ
Barium, total	0.229	0.0040	mg/L	4		03/17/25 0938	03/20/25 0645	KKJ
Beryllium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0645	KKJ
Cadmium, total	<0.0008	0.0008	mg/L	4		03/17/25 0938	03/20/25 0645	KKJ
Chromium, total	<0.0080	0.0080	mg/L	4		03/17/25 0938	03/20/25 0645	KKJ
Cobalt, total	<0.0004	0.0004	mg/L	4		03/17/25 0938	03/20/25 0645	KKJ
Copper, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0645	KKJ
Lead, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0645	KKJ
Nickel, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0645	KKJ
Selenium, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0645	KKJ
Silver, total	<0.0040	0.0040	mg/L	4		03/17/25 0938	03/20/25 0645	KKJ
Thallium, total	<0.0020	0.0020	mg/L	4		03/17/25 0938	03/20/25 0645	KKJ
Vanadium, total	<0.0200	0.0200	mg/L	4		03/17/25 0938	03/20/25 0645	KKJ
Zinc, total	0.0589	0.0200	mg/L	4		03/17/25 0938	03/20/25 0645	KKJ

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CERTIFICATE OF ANALYSIS

1IC0854

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IC0698	1IC0698-BS1	
		1IC0698-BSD1	
		1IC0698-BLK1	
		1IC0854-01	MW-1D
		1IC0854-02	MW-3
		1IC0854-03	MW-7
		1IC0854-04	MW-10
		1IC0854-06	MW-14
		1IC0698-MS1	1IC0573-07
		1IC0698-MSD1	1IC0573-07
Method	Batch	Laboratory ID	Client / Source ID
EPA 8151A	1IC0735	1IC0735-BLK1	
		1IC0854-01	MW-1D
		1IC0735-BS1	
		1IC0735-BSD1	
Method	Batch	Laboratory ID	Client / Source ID
EPA 376.2	1IC0760	1IC0760-MS1	1IC0696-01
		1IC0760-BLK1	
		1IC0760-MSD1	1IC0696-01
		1IC0760-BS1	
		1IC0854-01	MW-1D
Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1IC0761	1IC0761-BLK1	
		1IC0761-BS1	
		1IC0854-01	MW-1D
		1IC0761-MS1	1IC0854-01
		1IC0761-MSD1	1IC0854-01
		1IC0761-PS1	1IC0854-01
		1IC0854-02	MW-3
		1IC0854-03	MW-7
		1IC0854-04	MW-10
		1IC0854-05	MW-13
		1IC0854-06	MW-14
		1IC0854-07	MW-16
		1IC0854-08	MW-17 (b)
		1IC0854-09	MW-18
		1IC0854-10	MW-19



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CERTIFICATE OF ANALYSIS

1IC0854

EPA 6020A	1IC0761	1IC0854-11	MW-20
		1IC0854-12	GWD-1
		1IC0854-13	Duplicate
		1IC0854-14	MW-44 (b)
		1IC0854-15	MW-53
		1IC0854-16	GWD-3
		1IC0854-17	GWD-4

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IC0774	1IC0774-BS1	
		1IC0774-BSD1	
		1IC0774-BLK1	
		1IC0854-07	MW-16
		1IC0854-08	MW-17 (b)
		1IC0854-09	MW-18
		1IC0854-10	MW-19
		1IC0854-11	MW-20
		1IC0854-12	GWD-1
		1IC0854-13	Duplicate
		1IC0854-14	MW-44 (b)
		1IC0774-MS1	1IC0854-08
		1IC0774-MSD1	1IC0854-08

Method	Batch	Laboratory ID	Client / Source ID
EPA 8081	1IC0789	1IC0789-BLK1	
		1IC0789-BS1	
		1IC0789-BSD1	
		1IC0854-01	MW-1D

Method	Batch	Laboratory ID	Client / Source ID
EPA 8082	1IC0790	1IC0790-BLK1	
		1IC0790-BS1	
		1IC0790-BSD1	
		1IC0854-01	MW-1D

Method	Batch	Laboratory ID	Client / Source ID
EPA 8270C	1IC0791	1IC0791-BLK1	
		1IC0791-BS1	
		1IC0791-BSD1	
		1IC0791-SRM1	
		1IC0854-01	MW-1D

Method	Batch	Laboratory ID	Client / Source ID
EPA 8141	1IC0795	1IC0795-BLK1	



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CERTIFICATE OF ANALYSIS

1IC0854

EPA 8141	1IC0795	1IC0854-01 1IC0795-BS1 1IC0795-BSD1	MW-1D

Method	Batch	Laboratory ID	Client / Source ID
EPA 8270C	1IC0804	1IC0804-BLK1 1IC0804-BS1 1IC0804-BSD1 1IC0854-04	MW-10

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IC0807	1IC0807-BS1 1IC0807-BLK1 1IC0807-MS1 1IC0807-MSD1 1IC0807-BS2 1IC0807-BSD2 1IC0807-MS2 1IC0807-MSD2 1IC0807-BLK2 1IC0854-05	1IC0696-04 1IC0696-04 1IC0854-15 1IC0854-15 MW-13

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IC0808	1IC0808-BS1 1IC0808-BSD1 1IC0808-BLK1 1IC0854-15 1IC0854-16 1IC0854-17 1IC0808-MS1 1IC0808-MSD1	MW-53 GWD-3 GWD-4 1IC0568-01RE1 1IC0568-01RE1

Method	Batch	Laboratory ID	Client / Source ID
EPA 9014	1IC0986	1IC0854-01 1IC0986-MSD1 1IC0986-MS1 1IC0986-BS1 1IC0986-BLK1	MW-1D 1IC0827-03 1IC0827-03

Method	Batch	Laboratory ID	Client / Source ID
EPA 7470A	1IC1060	1IC1060-BLK1 1IC1060-BS1 1IC0854-01 1IC1060-MS1	MW-1D 1IC1029-01



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CERTIFICATE OF ANALYSIS

1IC0854

EPA 7470A	1IC1060	1IC1060-MSD1	1IC1029-01
Method	Batch	Laboratory ID	Client / Source ID
EPA 8015C	1IC1088	1IC1088-BS1	
		1IC1088-BLK1	
		1IC1088-MS1	1IC0851-01
		1IC1088-MSD1	1IC0851-01
		1IC1088-BLK2	
		1IC0854-01	MW-1D
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IC1114	1IC1114-BS1	
		1IC1114-BSD1	
		1IC1114-BLK1	
		1IC0854-02RE1	MW-3
		1IC0854-03RE1	MW-7
		1IC0854-04RE1	MW-10
		1IC0854-06RE1	MW-14
		1IC0854-11RE1	MW-20
		1IC1114-MS1	1IC1317-01
		1IC1114-MSD1	1IC1317-01
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IC1150	1IC1150-BS1	
		1IC1150-BLK1	
		1IC0854-01RE1	MW-1D
		1IC1150-MS1	1IC1317-07
		1IC1150-MSD1	1IC1317-07
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IC1200	1IC1200-BS1	
		1IC1200-BSD1	
		1IC1200-BLK1	
		1IC0854-01	MW-1D
		1IC1200-MS1	1IC0851-21
		1IC1200-MSD1	1IC0851-21

Batch Quality Control Summary: Microbac Laboratories, Inc., Newton

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
Blank (1IC0698-BLK1)										
Dichlorodifluoromethane	<1.0	1.0	ug/L							

Prepared: 03/13/25 00:00 Analyzed: 03/13/25 12:04



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
Blank (1IC0698-BLK1)				Prepared: 03/13/25 00:00 Analyzed: 03/13/25 12:04						
Chloromethane	<1.0	1.0	ug/L							
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
Acrolein	<10.0	10.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<2.0	2.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Acetonitrile	<10.0	10.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
2,2-Dichloropropane	<1.0	1.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<5.0	5.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
1,1-Dichloropropene	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
Blank (1IC0698-BLK1)				Prepared: 03/13/25 00:00 Analyzed: 03/13/25 12:04						
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
Toluene	<1.0	1.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
Ethyl Methacrylate	<10.0	10.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
1,3-Dichloropropane	<1.0	1.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							

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CERTIFICATE OF ANALYSIS

11C0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0698 - EPA 5030B - EPA 8260D										
Blank (11C0698-BLK1)										
Prepared: 03/13/25 00:00 Analyzed: 03/13/25 12:04										
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,3-Dichlorobenzene	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L							
Surrogate: Dibromofluoromethane	46.8		ug/L	50.2		93.3	57-134			
Surrogate: Dibromofluoromethane	46.8		ug/L	50.2		93.3	57-134			
Surrogate: Dibromofluoromethane	46.8		ug/L	50.2		93.3	75-136			
Surrogate: 1,2-Dichloroethane-d4	39.6		ug/L	50.1		79.1	53-140			
Surrogate: 1,2-Dichloroethane-d4	39.6		ug/L	50.1		79.1	53-140			
Surrogate: 1,2-Dichloroethane-d4	39.6		ug/L	50.1		79.1	53-140			
Surrogate: 1,2-Dichloroethane-d4	39.6		ug/L	50.1		79.1	61-142			
Surrogate: Toluene-d8	47.1		ug/L	50.4		93.6	86-114			
Surrogate: Toluene-d8	47.1		ug/L	50.4		93.6	86-114			
Surrogate: Toluene-d8	47.1		ug/L	50.4		93.6	86-114			
Surrogate: Toluene-d8	47.1		ug/L	50.4		93.6	82-121			
Surrogate: 4-Bromofluorobenzene	46.4		ug/L	50.1		92.4	78-121			
Surrogate: 4-Bromofluorobenzene	46.4		ug/L	50.1		92.4	78-121			
Surrogate: 4-Bromofluorobenzene	46.4		ug/L	50.1		92.4	78-121			
Surrogate: 4-Bromofluorobenzene	46.4		ug/L	50.1		92.4	80-116			
LCS (11C0698-BS1)										
Prepared: 03/13/25 00:00 Analyzed: 03/13/25 10:57										
Dichlorodifluoromethane	34.96	1.0	ug/L	30.3		115	49-138			
Chloromethane	25.56	1.0	ug/L	30.3		84.3	60-141			
Chloromethane	25.56	1.0	ug/L	30.3		84.3	63-155			
Vinyl Chloride	33.34	1.0	ug/L	30.2		110	65-137			
Vinyl Chloride	33.34	1.0	ug/L	30.2		110	70-154			
Bromomethane	34.49	1.0	ug/L	30.1		115	47-173			
Bromomethane	34.49	1.0	ug/L	30.1		115	52-176			
Chloroethane	35.43	1.0	ug/L	30.3		117	67-145			
Chloroethane	35.43	1.0	ug/L	30.3		117	72-148			
Trichlorofluoromethane	42.14	1.0	ug/L	30.3		139	63-127			Q2
Trichlorofluoromethane	42.14	1.0	ug/L	30.3		139	70-152			
Acrolein	64.38	10.0	ug/L	50.4		128	21-142			
1,1-Dichloroethylene	58.12	1.0	ug/L	50.1		116	69-136			
1,1-Dichloroethylene	58.12	1.0	ug/L	50.1		116	70-148			
Acetone	102.6	10.0	ug/L	100		103	45-153			
Acetone	102.6	10.0	ug/L	100		103	43-172			
Methyl Iodide	124.1	2.0	ug/L	100		124	58-156			
Methyl Iodide	124.1	1.0	ug/L	100		124	69-170			

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
LCS (1IC0698-BS1)				Prepared: 03/13/25 00:00 Analyzed: 03/13/25 10:57						
Carbon Disulfide	116.2	1.0	ug/L	100		116	68-128			
Carbon Disulfide	116.2	1.0	ug/L	100		116	72-162			
Acetonitrile	94.18	10.0	ug/L	100		94.2	35-177			
Methylene Chloride	52.93	5.0	ug/L	50.1		106	65-124			
Methylene Chloride	52.93	5.0	ug/L	50.1		106	68-142			
Acrylonitrile	50.43	5.0	ug/L	50.2		100	56-135			
Acrylonitrile	50.43	5.0	ug/L	50.2		100	56-135			
trans-1,2-Dichloroethylene	55.75	1.0	ug/L	50.1		111	74-126			
trans-1,2-Dichloroethylene	55.75	1.0	ug/L	50.1		111	66-148			
1,1-Dichloroethane	56.27	1.0	ug/L	50.1		112	73-122			
1,1-Dichloroethane	56.27	1.0	ug/L	50.1		112	66-143			
Vinyl Acetate	166.6	5.0	ug/L	140		119	24-171			
Vinyl Acetate	166.6	5.0	ug/L	140		119	43-153			
2,2-Dichloropropane	59.12	1.0	ug/L	50.3		117	68-120			
cis-1,2-Dichloroethylene	56.54	1.0	ug/L	50.4		112	65-149			
cis-1,2-Dichloroethylene	56.54	1.0	ug/L	50.4		112	71-149			
2-Butanone (MEK)	92.44	5.0	ug/L	100		92.4	57-147			
2-Butanone (MEK)	92.44	10.0	ug/L	100		92.4	52-159			
Bromochloromethane	49.88	1.0	ug/L	50.4		99.0	76-125			
Bromochloromethane	49.88	1.0	ug/L	50.4		99.0	69-143			
Chloroform	56.67	1.0	ug/L	50.1		113	71-125			
Chloroform	56.67	1.0	ug/L	50.1		113	69-144			
1,1,1-Trichloroethane	59.33	1.0	ug/L	50.1		118	66-118			
1,1,1-Trichloroethane	59.33	1.0	ug/L	50.1		118	62-129			
1,1-Dichloropropene	58.58	1.0	ug/L	50.5		116	69-130			
Carbon Tetrachloride	61.06	1.0	ug/L	50.1		122	68-126			
Carbon Tetrachloride	61.06	1.0	ug/L	50.1		122	63-141			
Benzene	51.42	1.0	ug/L	50.4		102	81-123			
Benzene	51.42	1.0	ug/L	50.4		102	71-134			
1,2-Dichloroethane	50.31	1.0	ug/L	50.1		100	70-130			
1,2-Dichloroethane	50.31	1.0	ug/L	50.1		100	72-132			
Trichloroethylene	55.94	1.0	ug/L	50.1		112	84-118			
Trichloroethylene	55.94	1.0	ug/L	50.1		112	71-135			
1,2-Dichloropropane	48.60	1.0	ug/L	50.1		97.0	87-118			
1,2-Dichloropropane	48.60	1.0	ug/L	50.1		97.0	69-136			
Dibromomethane	49.24	1.0	ug/L	50.4		97.8	82-126			
Dibromomethane	49.24	1.0	ug/L	50.4		97.8	73-147			
Bromodichloromethane	52.99	1.0	ug/L	50.1		106	80-116			
Bromodichloromethane	52.99	1.0	ug/L	50.1		106	68-129			
cis-1,3-Dichloropropene	47.35	1.0	ug/L	50.1		94.5	83-116			
cis-1,3-Dichloropropene	47.35	1.0	ug/L	50.1		94.5	65-134			
Toluene	52.08	1.0	ug/L	50.5		103	78-123			
Toluene	52.08	1.0	ug/L	50.5		103	72-133			

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
LCS (1IC0698-BS1)				Prepared: 03/13/25 00:00 Analyzed: 03/13/25 10:57						
trans-1,3-Dichloropropene	46.62	1.0	ug/L	50.1		93.1	75-120			
trans-1,3-Dichloropropene	46.62	1.0	ug/L	50.1		93.1	67-130			
Ethyl Methacrylate	85.81	10.0	ug/L	100		85.8	77-129			
1,1,2-Trichloroethane	51.64	1.0	ug/L	50.1		103	81-121			
1,1,2-Trichloroethane	51.64	1.0	ug/L	50.1		103	69-135			
Tetrachloroethylene	58.04	1.0	ug/L	50.1		116	76-120			
Tetrachloroethylene	58.04	1.0	ug/L	50.1		116	69-130			
1,3-Dichloropropane	50.36	1.0	ug/L	50.4		99.9	86-131			
Dibromochloromethane	51.55	1.0	ug/L	50.1		103	83-123			
Dibromochloromethane	51.55	1.0	ug/L	50.1		103	73-127			
1,2-Dibromoethane	49.10	1.0	ug/L	50.2		97.8	86-115			
1,2-Dibromoethane	49.10	1.0	ug/L	50.2		97.8	67-132			
Chlorobenzene	50.34	1.0	ug/L	50.1		101	82-117			
Chlorobenzene	50.34	1.0	ug/L	50.1		101	72-123			
1,1,1,2-Tetrachloroethane	52.44	1.0	ug/L	50.3		104	86-119			
1,1,1,2-Tetrachloroethane	52.44	1.0	ug/L	50.3		104	73-127			
Ethylbenzene	51.81	1.0	ug/L	50.2		103	80-122			
Ethylbenzene	51.81	1.0	ug/L	50.2		103	71-127			
Xylenes, total	153.9	2.0	ug/L	151		102	81-122			
Xylenes, total	153.9	2.0	ug/L	151		102	74-127			
Styrene	53.73	1.0	ug/L	50.4		107	85-118			
Styrene	53.73	1.0	ug/L	50.4		107	66-126			
Bromoform	50.14	1.0	ug/L	50.1		100	80-123			
Bromoform	50.14	1.0	ug/L	50.1		100	68-130			
1,2,3-Trichloropropane	46.44	1.0	ug/L	50.3		92.2	83-126			
1,2,3-Trichloropropane	46.44	1.0	ug/L	50.3		92.2	63-136			
trans-1,4-Dichloro-2-butene	78.57	5.0	ug/L	100		78.6	67-118			
trans-1,4-Dichloro-2-butene	78.57	5.0	ug/L	100		78.6	54-134			
1,1,2,2-Tetrachloroethane	44.44	1.0	ug/L	50.1		88.7	81-124			
1,1,2,2-Tetrachloroethane	44.44	1.0	ug/L	50.1		88.7	61-131			
1,3-Dichlorobenzene	49.79	1.0	ug/L	50.1		99.4	83-114			
1,4-Dichlorobenzene	47.11	1.0	ug/L	50.1		94.0	83-117			
1,4-Dichlorobenzene	47.11	1.0	ug/L	50.1		94.0	70-129			
1,2-Dichlorobenzene	48.41	1.0	ug/L	50.1		96.6	83-116			
1,2-Dichlorobenzene	48.41	1.0	ug/L	50.1		96.6	69-126			
1,2-Dibromo-3-chloropropane	41.27	1.0	ug/L	50.1		82.3	77-128			
Surrogate: Dibromofluoromethane	54.9		ug/L	50.2		109	57-134			
Surrogate: Dibromofluoromethane	54.9		ug/L	50.2		109	57-134			
Surrogate: Dibromofluoromethane	54.9		ug/L	50.2		109	75-136			
Surrogate: 1,2-Dichloroethane-d4	49.0		ug/L	50.1		97.9	53-140			
Surrogate: 1,2-Dichloroethane-d4	49.0		ug/L	50.1		97.9	53-140			
Surrogate: 1,2-Dichloroethane-d4	49.0		ug/L	50.1		97.9	53-140			
Surrogate: 1,2-Dichloroethane-d4	49.0		ug/L	50.1		97.9	61-142			

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
LCS (1IC0698-BS1)				Prepared: 03/13/25 00:00 Analyzed: 03/13/25 10:57						
Surrogate: Toluene-d8	50.3		ug/L	50.4		99.8	86-114			
Surrogate: Toluene-d8	50.3		ug/L	50.4		99.8	86-114			
Surrogate: Toluene-d8	50.3		ug/L	50.4		99.8	86-114			
Surrogate: Toluene-d8	50.3		ug/L	50.4		99.8	82-121			
Surrogate: 4-Bromofluorobenzene	49.5		ug/L	50.1		98.6	78-121			
Surrogate: 4-Bromofluorobenzene	49.5		ug/L	50.1		98.6	78-121			
Surrogate: 4-Bromofluorobenzene	49.5		ug/L	50.1		98.6	78-121			
Surrogate: 4-Bromofluorobenzene	49.5		ug/L	50.1		98.6	80-116			
LCS Dup (1IC0698-BSD1)				Prepared: 03/13/25 00:00 Analyzed: 03/13/25 11:19						
Dichlorodifluoromethane	33.19	1.0	ug/L	30.3		110	49-138	5.19	22	
Chloromethane	25.11	1.0	ug/L	30.3		82.8	60-141	1.78	30	
Chloromethane	25.11	1.0	ug/L	30.3		82.8	63-155	1.78	24	
Vinyl Chloride	30.32	1.0	ug/L	30.2		100	65-137	9.49	20	
Vinyl Chloride	30.32	1.0	ug/L	30.2		100	70-154	9.49	25	
Bromomethane	33.62	1.0	ug/L	30.1		112	47-173	2.55	17	
Bromomethane	33.62	1.0	ug/L	30.1		112	52-176	2.55	27	
Chloroethane	32.88	1.0	ug/L	30.3		108	67-145	7.47	30	
Chloroethane	32.88	1.0	ug/L	30.3		108	72-148	7.47	25	
Trichlorofluoromethane	39.68	1.0	ug/L	30.3		131	63-127	6.01	15	Q2
Trichlorofluoromethane	39.68	1.0	ug/L	30.3		131	70-152	6.01	26	
Acrolein	66.61	10.0	ug/L	50.4		132	21-142	3.40	18	
1,1-Dichloroethylene	54.40	1.0	ug/L	50.1		109	69-136	6.61	30	
1,1-Dichloroethylene	54.40	1.0	ug/L	50.1		109	70-148	6.61	24	
Acetone	87.13	10.0	ug/L	100		87.1	45-153	16.3	23	
Acetone	87.13	10.0	ug/L	100		87.1	43-172	16.3	30	
Methyl Iodide	117.5	2.0	ug/L	100		117	58-156	5.45	17	
Methyl Iodide	117.5	1.0	ug/L	100		117	69-170	5.45	30	
Carbon Disulfide	107.5	1.0	ug/L	100		108	68-128	7.73	30	
Carbon Disulfide	107.5	1.0	ug/L	100		108	72-162	7.73	24	
Acetonitrile	91.94	10.0	ug/L	100		91.9	35-177	2.41	30	
Methylene Chloride	51.57	5.0	ug/L	50.1		103	65-124	2.60	30	
Methylene Chloride	51.57	5.0	ug/L	50.1		103	68-142	2.60	21	
Acrylonitrile	48.71	5.0	ug/L	50.2		97.0	56-135	3.47	16	
Acrylonitrile	48.71	5.0	ug/L	50.2		97.0	56-135	3.47	16	
trans-1,2-Dichloroethylene	52.40	1.0	ug/L	50.1		105	74-126	6.20	30	
trans-1,2-Dichloroethylene	52.40	1.0	ug/L	50.1		105	66-148	6.20	27	
1,1-Dichloroethane	53.15	1.0	ug/L	50.1		106	73-122	5.70	30	
1,1-Dichloroethane	53.15	1.0	ug/L	50.1		106	66-143	5.70	24	
Vinyl Acetate	164.0	5.0	ug/L	140		117	24-171	1.63	30	
Vinyl Acetate	164.0	5.0	ug/L	140		117	43-153	1.63	30	
2,2-Dichloropropane	55.73	1.0	ug/L	50.3		111	68-120	5.90	14	
cis-1,2-Dichloroethylene	52.84	1.0	ug/L	50.4		105	65-149	6.77	30	
cis-1,2-Dichloroethylene	52.84	1.0	ug/L	50.4		105	71-149	6.77	26	

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
LCS Dup (1IC0698-BSD1)				Prepared: 03/13/25 00:00 Analyzed: 03/13/25 11:19						
2-Butanone (MEK)	84.79	5.0	ug/L	100		84.8	57-147	8.63	18	
2-Butanone (MEK)	84.79	10.0	ug/L	100		84.8	52-159	8.63	27	
Bromochloromethane	47.55	1.0	ug/L	50.4		94.3	76-125	4.78	30	
Bromochloromethane	47.55	1.0	ug/L	50.4		94.3	69-143	4.78	23	
Chloroform	54.55	1.0	ug/L	50.1		109	71-125	3.81	30	
Chloroform	54.55	1.0	ug/L	50.1		109	69-144	3.81	23	
1,1,1-Trichloroethane	55.25	1.0	ug/L	50.1		110	66-118	7.12	30	
1,1,1-Trichloroethane	55.25	1.0	ug/L	50.1		110	62-129	7.12	24	
1,1-Dichloropropene	55.65	1.0	ug/L	50.5		110	69-130	5.13	30	
Carbon Tetrachloride	56.93	1.0	ug/L	50.1		114	68-126	7.00	13	
Carbon Tetrachloride	56.93	1.0	ug/L	50.1		114	63-141	7.00	25	
Benzene	49.91	1.0	ug/L	50.4		99.0	81-123	2.98	30	
Benzene	49.91	1.0	ug/L	50.4		99.0	71-134	2.98	24	
1,2-Dichloroethane	48.98	1.0	ug/L	50.1		97.8	70-130	2.68	30	
1,2-Dichloroethane	48.98	1.0	ug/L	50.1		97.8	72-132	2.68	24	
Trichloroethylene	53.39	1.0	ug/L	50.1		107	84-118	4.66	30	
Trichloroethylene	53.39	1.0	ug/L	50.1		107	71-135	4.66	24	
1,2-Dichloropropane	48.82	1.0	ug/L	50.1		97.5	87-118	0.452	30	
1,2-Dichloropropane	48.82	1.0	ug/L	50.1		97.5	69-136	0.452	24	
Dibromomethane	48.38	1.0	ug/L	50.4		96.1	82-126	1.76	30	
Dibromomethane	48.38	1.0	ug/L	50.4		96.1	73-147	1.76	25	
Bromodichloromethane	51.83	1.0	ug/L	50.1		103	80-116	2.21	30	
Bromodichloromethane	51.83	1.0	ug/L	50.1		103	68-129	2.21	22	
cis-1,3-Dichloropropene	47.71	1.0	ug/L	50.1		95.3	83-116	0.757	30	
cis-1,3-Dichloropropene	47.71	1.0	ug/L	50.1		95.3	65-134	0.757	23	
Toluene	50.62	1.0	ug/L	50.5		100	78-123	2.84	30	
Toluene	50.62	1.0	ug/L	50.5		100	72-133	2.84	24	
trans-1,3-Dichloropropene	46.24	1.0	ug/L	50.1		92.3	75-120	0.818	30	
trans-1,3-Dichloropropene	46.24	1.0	ug/L	50.1		92.3	67-130	0.818	24	
Ethyl Methacrylate	87.73	10.0	ug/L	100		87.7	77-129	2.21	30	
1,1,2-Trichloroethane	52.58	1.0	ug/L	50.1		105	81-121	1.80	30	
1,1,2-Trichloroethane	52.58	1.0	ug/L	50.1		105	69-135	1.80	23	
Tetrachloroethylene	54.87	1.0	ug/L	50.1		110	76-120	5.62	30	
Tetrachloroethylene	54.87	1.0	ug/L	50.1		110	69-130	5.62	25	
1,3-Dichloropropane	47.79	1.0	ug/L	50.4		94.8	86-131	5.24	30	
Dibromochloromethane	50.53	1.0	ug/L	50.1		101	83-123	2.00	15	
Dibromochloromethane	50.53	1.0	ug/L	50.1		101	73-127	2.00	22	
1,2-Dibromoethane	48.42	1.0	ug/L	50.2		96.4	86-115	1.39	30	
1,2-Dibromoethane	48.42	1.0	ug/L	50.2		96.4	67-132	1.39	24	
Chlorobenzene	48.12	1.0	ug/L	50.1		96.1	82-117	4.51	30	
Chlorobenzene	48.12	1.0	ug/L	50.1		96.1	72-123	4.51	23	
1,1,1,2-Tetrachloroethane	50.39	1.0	ug/L	50.3		100	86-119	3.99	30	
1,1,1,2-Tetrachloroethane	50.39	1.0	ug/L	50.3		100	73-127	3.99	24	

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CERTIFICATE OF ANALYSIS

11C0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0698 - EPA 5030B - EPA 8260D										
LCS Dup (11C0698-BSD1)										
Prepared: 03/13/25 00:00 Analyzed: 03/13/25 11:19										
Ethylbenzene	49.24	1.0	ug/L	50.2		98.1	80-122	5.09	30	
Ethylbenzene	49.24	1.0	ug/L	50.2		98.1	71-127	5.09	26	
Xylenes, total	146.0	2.0	ug/L	151		96.7	81-122	5.23	30	
Xylenes, total	146.0	2.0	ug/L	151		96.7	74-127	5.23	25	
Styrene	51.30	1.0	ug/L	50.4		102	85-118	4.63	30	
Styrene	51.30	1.0	ug/L	50.4		102	66-126	4.63	23	
Bromoform	48.22	1.0	ug/L	50.1		96.2	80-123	3.90	30	
Bromoform	48.22	1.0	ug/L	50.1		96.2	68-130	3.90	23	
1,2,3-Trichloropropane	45.49	1.0	ug/L	50.3		90.4	83-126	2.07	30	
1,2,3-Trichloropropane	45.49	1.0	ug/L	50.3		90.4	63-136	2.07	24	
trans-1,4-Dichloro-2-butene	77.40	5.0	ug/L	100		77.4	67-118	1.50	10	
trans-1,4-Dichloro-2-butene	77.40	5.0	ug/L	100		77.4	54-134	1.50	27	
1,1,2,2-Tetrachloroethane	44.72	1.0	ug/L	50.1		89.3	81-124	0.628	30	
1,1,2,2-Tetrachloroethane	44.72	1.0	ug/L	50.1		89.3	61-131	0.628	29	
1,3-Dichlorobenzene	49.92	1.0	ug/L	50.1		99.7	83-114	0.261	30	
1,4-Dichlorobenzene	47.73	1.0	ug/L	50.1		95.2	83-117	1.31	30	
1,4-Dichlorobenzene	47.73	1.0	ug/L	50.1		95.2	70-129	1.31	24	
1,2-Dichlorobenzene	47.96	1.0	ug/L	50.1		95.7	83-116	0.934	30	
1,2-Dichlorobenzene	47.96	1.0	ug/L	50.1		95.7	69-126	0.934	26	
1,2-Dibromo-3-chloropropane	42.25	1.0	ug/L	50.1		84.3	77-128	2.35	30	
Surrogate: Dibromofluoromethane	54.2		ug/L	50.2		108	57-134			
Surrogate: Dibromofluoromethane	54.2		ug/L	50.2		108	57-134			
Surrogate: Dibromofluoromethane	54.2		ug/L	50.2		108	75-136			
Surrogate: 1,2-Dichloroethane-d4	48.1		ug/L	50.1		96.0	53-140			
Surrogate: 1,2-Dichloroethane-d4	48.1		ug/L	50.1		96.0	53-140			
Surrogate: 1,2-Dichloroethane-d4	48.1		ug/L	50.1		96.0	53-140			
Surrogate: 1,2-Dichloroethane-d4	48.1		ug/L	50.1		96.0	61-142			
Surrogate: Toluene-d8	49.8		ug/L	50.4		98.8	86-114			
Surrogate: Toluene-d8	49.8		ug/L	50.4		98.8	86-114			
Surrogate: Toluene-d8	49.8		ug/L	50.4		98.8	86-114			
Surrogate: Toluene-d8	49.8		ug/L	50.4		98.8	82-121			
Surrogate: 4-Bromofluorobenzene	49.2		ug/L	50.1		98.1	78-121			
Surrogate: 4-Bromofluorobenzene	49.2		ug/L	50.1		98.1	78-121			
Surrogate: 4-Bromofluorobenzene	49.2		ug/L	50.1		98.1	78-121			
Surrogate: 4-Bromofluorobenzene	49.2		ug/L	50.1		98.1	80-116			
Matrix Spike (11C0698-MS1)										
Source: 11C0573-07 Prepared: 03/13/25 00:00 Analyzed: 03/13/25 23:48										
Dichlorodifluoromethane	326.5	10.0	ug/L	303	ND	108	37-140			
Chloromethane	246.7	10.0	ug/L	303	ND	81.4	47-147			
Chloromethane	246.7	10.0	ug/L	303	ND	81.4	61-152			
Vinyl Chloride	307.9	10.0	ug/L	302	ND	102	55-142			
Vinyl Chloride	307.9	10.0	ug/L	302	ND	102	66-149			
Bromomethane	310.3	10.0	ug/L	301	ND	103	34-160			
Bromomethane	310.3	10.0	ug/L	301	ND	103	43-171			
Chloroethane	329.8	10.0	ug/L	303	ND	109	54-154			

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC0698-MS1)	Source: 1IC0573-07			Prepared: 03/13/25 00:00 Analyzed: 03/13/25 23:48						
Chloroethane	329.8	10.0	ug/L	303	ND	109	69-148			M1
Trichlorofluoromethane	418.1	10.0	ug/L	303	ND	138	49-131			
Trichlorofluoromethane	418.1	10.0	ug/L	303	ND	138	62-163			
Acrolein	523.8	100	ug/L	504	ND	104	22-138			
1,1-Dichloroethylene	557.8	10.0	ug/L	501	ND	111	57-143			
1,1-Dichloroethylene	557.8	10.0	ug/L	501	ND	111	70-148			
Acetone	837.0	100	ug/L	1000	ND	83.7	27-173			
Acetone	837.0	100	ug/L	1000	ND	83.7	45-173			
Methyl Iodide	1170	20.0	ug/L	1000	ND	117	39-157			
Methyl Iodide	1170	10.0	ug/L	1000	ND	117	62-167			
Carbon Disulfide	1136	10.0	ug/L	1000	ND	114	53-136			
Carbon Disulfide	1136	10.0	ug/L	1000	ND	114	71-163			
Acetonitrile	898.9	100	ug/L	1000	ND	89.9	11-189			
Methylene Chloride	512.8	50.0	ug/L	501	ND	102	57-128			
Methylene Chloride	512.8	50.0	ug/L	501	ND	102	69-140			
Acrylonitrile	487.5	50.0	ug/L	502	ND	97.1	38-147			
Acrylonitrile	487.5	50.0	ug/L	502	ND	97.1	38-147			
trans-1,2-Dichloroethylene	535.1	10.0	ug/L	501	ND	107	61-135			
trans-1,2-Dichloroethylene	535.1	10.0	ug/L	501	ND	107	69-144			
1,1-Dichloroethane	547.5	10.0	ug/L	501	ND	109	60-131			
1,1-Dichloroethane	547.5	10.0	ug/L	501	ND	109	70-138			
Vinyl Acetate	1553	50.0	ug/L	1400	ND	111	24-163			
Vinyl Acetate	1553	50.0	ug/L	1400	ND	111	58-142			
2,2-Dichloropropane	514.9	10.0	ug/L	503	ND	102	37-112			
cis-1,2-Dichloroethylene	528.3	10.0	ug/L	504	ND	105	47-162			
cis-1,2-Dichloroethylene	528.3	10.0	ug/L	504	ND	105	68-151			
2-Butanone (MEK)	848.1	50.0	ug/L	1000	ND	84.8	45-156			
2-Butanone (MEK)	848.1	100	ug/L	1000	ND	84.8	50-160			
Bromochloromethane	486.6	10.0	ug/L	504	ND	96.5	55-132			
Bromochloromethane	486.6	10.0	ug/L	504	ND	96.5	65-143			
Chloroform	554.7	10.0	ug/L	501	ND	111	45-142			
Chloroform	554.7	10.0	ug/L	501	ND	111	71-143			
1,1,1-Trichloroethane	584.4	10.0	ug/L	501	ND	117	52-128			
1,1,1-Trichloroethane	584.4	10.0	ug/L	501	ND	117	63-133			
1,1-Dichloropropene	565.5	10.0	ug/L	505	ND	112	49-138			
Carbon Tetrachloride	604.0	10.0	ug/L	501	ND	121	56-132			
Carbon Tetrachloride	604.0	10.0	ug/L	501	ND	121	63-142			
Benzene	525.4	10.0	ug/L	504	ND	104	77-124			
Benzene	525.4	10.0	ug/L	504	ND	104	69-133			
1,2-Dichloroethane	498.5	10.0	ug/L	501	ND	99.5	67-130			
1,2-Dichloroethane	498.5	10.0	ug/L	501	ND	99.5	63-138			
Trichloroethylene	560.2	10.0	ug/L	501	ND	112	75-123			
Trichloroethylene	560.2	10.0	ug/L	501	ND	112	71-133			

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC0698-MS1)	Source: 1IC0573-07			Prepared: 03/13/25 00:00 Analyzed: 03/13/25 23:48						
1,2-Dichloropropane	489.9	10.0	ug/L	501	ND	97.8	75-126			
1,2-Dichloropropane	489.9	10.0	ug/L	501	ND	97.8	69-132			
Dibromomethane	498.6	10.0	ug/L	504	ND	99.0	72-131			
Dibromomethane	498.6	10.0	ug/L	504	ND	99.0	70-147			
Bromodichloromethane	614.2	10.0	ug/L	501	ND	123	70-123			
Bromodichloromethane	614.2	10.0	ug/L	501	ND	123	67-130			
cis-1,3-Dichloropropene	527.0	10.0	ug/L	501	ND	105	68-119			
cis-1,3-Dichloropropene	527.0	10.0	ug/L	501	ND	105	61-126			
Toluene	522.6	10.0	ug/L	505	ND	104	63-131			
Toluene	522.6	10.0	ug/L	505	ND	104	71-133			
trans-1,3-Dichloropropene	446.3	10.0	ug/L	501	ND	89.1	65-121			
trans-1,3-Dichloropropene	446.3	10.0	ug/L	501	ND	89.1	63-124			
Ethyl Methacrylate	820.9	100	ug/L	1000	ND	82.1	62-137			
1,1,2-Trichloroethane	526.6	10.0	ug/L	501	ND	105	76-124			
1,1,2-Trichloroethane	526.6	10.0	ug/L	501	ND	105	69-133			
Tetrachloroethylene	588.2	10.0	ug/L	501	ND	117	77-117			
Tetrachloroethylene	588.2	10.0	ug/L	501	ND	117	70-124			
1,3-Dichloropropane	494.8	10.0	ug/L	504	ND	98.1	81-132			
Dibromochloromethane	518.4	10.0	ug/L	501	ND	104	77-124			
Dibromochloromethane	518.4	10.0	ug/L	501	ND	104	74-122			
1,2-Dibromoethane	484.7	10.0	ug/L	502	ND	96.5	82-117			
1,2-Dibromoethane	484.7	10.0	ug/L	502	ND	96.5	66-127			
Chlorobenzene	508.9	10.0	ug/L	501	ND	102	82-114			
Chlorobenzene	508.9	10.0	ug/L	501	ND	102	76-116			
1,1,1,2-Tetrachloroethane	536.2	10.0	ug/L	503	ND	107	82-118			
1,1,1,2-Tetrachloroethane	536.2	10.0	ug/L	503	ND	107	77-121			
Ethylbenzene	522.3	10.0	ug/L	502	ND	104	80-119			
Ethylbenzene	522.3	10.0	ug/L	502	ND	104	73-124			
Xylenes, total	1560	20.0	ug/L	1510	ND	103	81-119			
Xylenes, total	1560	20.0	ug/L	1510	ND	103	75-123			
Styrene	538.9	10.0	ug/L	504	ND	107	81-119			
Styrene	538.9	10.0	ug/L	504	ND	107	70-120			
Bromoform	501.6	10.0	ug/L	501	ND	100	74-122			
Bromoform	501.6	10.0	ug/L	501	ND	100	70-124			
1,2,3-Trichloropropane	466.8	10.0	ug/L	503	ND	92.7	72-138			
1,2,3-Trichloropropane	466.8	10.0	ug/L	503	ND	92.7	62-135			
trans-1,4-Dichloro-2-butene	741.5	50.0	ug/L	1000	ND	74.2	56-116			
trans-1,4-Dichloro-2-butene	741.5	50.0	ug/L	1000	ND	74.2	50-120			
1,1,2,2-Tetrachloroethane	422.1	10.0	ug/L	501	ND	84.2	78-126			
1,1,2,2-Tetrachloroethane	422.1	10.0	ug/L	501	ND	84.2	63-126			
1,3-Dichlorobenzene	494.4	10.0	ug/L	501	ND	98.7	81-113			
1,4-Dichlorobenzene	469.6	10.0	ug/L	501	ND	93.7	81-116			
1,4-Dichlorobenzene	469.6	10.0	ug/L	501	ND	93.7	72-119			

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC0698-MS1)	Source: 1IC0573-07			Prepared: 03/13/25 00:00 Analyzed: 03/13/25 23:48						
1,2-Dichlorobenzene	466.2	10.0	ug/L	501	ND	93.1	81-116			
1,2-Dichlorobenzene	466.2	10.0	ug/L	501	ND	93.1	71-117			
1,2-Dibromo-3-chloropropane	397.6	10.0	ug/L	501	ND	79.3	63-138			
Surrogate: Dibromofluoromethane	536		ug/L	502		107	57-134			
Surrogate: Dibromofluoromethane	536		ug/L	502		107	57-134			
Surrogate: Dibromofluoromethane	536		ug/L	502		107	75-136			
Surrogate: 1,2-Dichloroethane-d4	490		ug/L	501		97.8	53-140			
Surrogate: 1,2-Dichloroethane-d4	490		ug/L	501		97.8	53-140			
Surrogate: 1,2-Dichloroethane-d4	490		ug/L	501		97.8	53-140			
Surrogate: 1,2-Dichloroethane-d4	490		ug/L	501		97.8	61-142			
Surrogate: Toluene-d8	502		ug/L	504		99.6	86-114			
Surrogate: Toluene-d8	502		ug/L	504		99.6	86-114			
Surrogate: Toluene-d8	502		ug/L	504		99.6	86-114			
Surrogate: Toluene-d8	502		ug/L	504		99.6	82-121			
Surrogate: 4-Bromofluorobenzene	514		ug/L	501		103	78-121			
Surrogate: 4-Bromofluorobenzene	514		ug/L	501		103	78-121			
Surrogate: 4-Bromofluorobenzene	514		ug/L	501		103	78-121			
Surrogate: 4-Bromofluorobenzene	514		ug/L	501		103	80-116			
Matrix Spike Dup (1IC0698-MSD1)	Source: 1IC0573-07			Prepared: 03/13/25 00:00 Analyzed: 03/14/25 00:10						
Dichlorodifluoromethane	311.1	10.0	ug/L	303	ND	103	37-140	4.83	18	
Chloromethane	231.9	10.0	ug/L	303	ND	76.5	47-147	6.18	18	
Chloromethane	231.9	10.0	ug/L	303	ND	76.5	61-152	6.18	26	
Vinyl Chloride	295.4	10.0	ug/L	302	ND	97.7	55-142	4.14	20	
Vinyl Chloride	295.4	10.0	ug/L	302	ND	97.7	66-149	4.14	23	
Bromomethane	312.0	10.0	ug/L	301	ND	104	34-160	0.546	22	
Bromomethane	312.0	10.0	ug/L	301	ND	104	43-171	0.546	29	
Chloroethane	323.0	10.0	ug/L	303	ND	107	54-154	2.08	20	
Chloroethane	323.0	10.0	ug/L	303	ND	107	69-148	2.08	25	
Trichlorofluoromethane	392.4	10.0	ug/L	303	ND	129	49-131	6.34	14	
Trichlorofluoromethane	392.4	10.0	ug/L	303	ND	129	62-163	6.34	25	
Acrolein	547.9	100	ug/L	504	ND	109	22-138	4.50	30	
1,1-Dichloroethylene	540.0	10.0	ug/L	501	ND	108	57-143	3.24	15	
1,1-Dichloroethylene	540.0	10.0	ug/L	501	ND	108	70-148	3.24	22	
Acetone	906.1	100	ug/L	1000	ND	90.6	27-173	7.93	30	
Acetone	906.1	100	ug/L	1000	ND	90.6	45-173	7.93	30	
Methyl Iodide	1118	20.0	ug/L	1000	ND	112	39-157	4.57	12	
Methyl Iodide	1118	10.0	ug/L	1000	ND	112	62-167	4.57	24	
Carbon Disulfide	1053	10.0	ug/L	1000	ND	105	53-136	7.57	20	
Carbon Disulfide	1053	10.0	ug/L	1000	ND	105	71-163	7.57	22	
Acetonitrile	869.0	100	ug/L	1000	ND	86.9	11-189	3.38	24	
Methylene Chloride	489.4	50.0	ug/L	501	ND	97.7	57-128	4.67	14	
Methylene Chloride	489.4	50.0	ug/L	501	ND	97.7	69-140	4.67	19	
Acrylonitrile	455.1	50.0	ug/L	502	ND	90.7	38-147	6.87	30	
Acrylonitrile	455.1	50.0	ug/L	502	ND	90.7	38-147	6.87	30	

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IC0698-MSD1)	Source: 1IC0573-07			Prepared: 03/13/25 00:00 Analyzed: 03/14/25 00:10						
trans-1,2-Dichloroethylene	516.6	10.0	ug/L	501	ND	103	61-135	3.52	12	
trans-1,2-Dichloroethylene	516.6	10.0	ug/L	501	ND	103	69-144	3.52	22	
1,1-Dichloroethane	525.2	10.0	ug/L	501	ND	105	60-131	4.16	15	
1,1-Dichloroethane	525.2	10.0	ug/L	501	ND	105	70-138	4.16	20	
Vinyl Acetate	1532	50.0	ug/L	1400	ND	109	24-163	1.36	16	
Vinyl Acetate	1532	50.0	ug/L	1400	ND	109	58-142	1.36	24	
2,2-Dichloropropane	490.7	10.0	ug/L	503	ND	97.5	37-112	4.81	13	
cis-1,2-Dichloroethylene	504.4	10.0	ug/L	504	ND	100	47-162	4.63	22	
cis-1,2-Dichloroethylene	504.4	10.0	ug/L	504	ND	100	68-151	4.63	22	
2-Butanone (MEK)	807.6	50.0	ug/L	1000	ND	80.8	45-156	4.89	20	
2-Butanone (MEK)	807.6	100	ug/L	1000	ND	80.8	50-160	4.89	23	
Bromochloromethane	463.9	10.0	ug/L	504	ND	92.0	55-132	4.78	15	
Bromochloromethane	463.9	10.0	ug/L	504	ND	92.0	65-143	4.78	22	
Chloroform	527.3	10.0	ug/L	501	ND	105	45-142	5.06	12	
Chloroform	527.3	10.0	ug/L	501	ND	105	71-143	5.06	21	
1,1,1-Trichloroethane	555.4	10.0	ug/L	501	ND	111	52-128	5.09	14	
1,1,1-Trichloroethane	555.4	10.0	ug/L	501	ND	111	63-133	5.09	23	
1,1-Dichloropropene	543.5	10.0	ug/L	505	ND	108	49-138	3.97	12	
Carbon Tetrachloride	574.1	10.0	ug/L	501	ND	115	56-132	5.08	12	
Carbon Tetrachloride	574.1	10.0	ug/L	501	ND	115	63-142	5.08	22	
Benzene	491.8	10.0	ug/L	504	ND	97.5	77-124	6.61	12	
Benzene	491.8	10.0	ug/L	504	ND	97.5	69-133	6.61	18	
1,2-Dichloroethane	475.8	10.0	ug/L	501	ND	95.0	67-130	4.66	13	
1,2-Dichloroethane	475.8	10.0	ug/L	501	ND	95.0	63-138	4.66	20	
Trichloroethylene	533.3	10.0	ug/L	501	ND	106	75-123	4.92	11	
Trichloroethylene	533.3	10.0	ug/L	501	ND	106	71-133	4.92	23	
1,2-Dichloropropane	483.5	10.0	ug/L	501	ND	96.5	75-126	1.31	11	
1,2-Dichloropropane	483.5	10.0	ug/L	501	ND	96.5	69-132	1.31	20	
Dibromomethane	466.7	10.0	ug/L	504	ND	92.7	72-131	6.61	12	
Dibromomethane	466.7	10.0	ug/L	504	ND	92.7	70-147	6.61	22	
Bromodichloromethane	517.0	10.0	ug/L	501	ND	103	70-123	17.2	10	R1
Bromodichloromethane	517.0	10.0	ug/L	501	ND	103	67-130	17.2	21	
cis-1,3-Dichloropropene	449.2	10.0	ug/L	501	ND	89.7	68-119	15.9	10	R1
cis-1,3-Dichloropropene	449.2	10.0	ug/L	501	ND	89.7	61-126	15.9	21	
Toluene	500.2	10.0	ug/L	505	ND	99.1	63-131	4.38	15	
Toluene	500.2	10.0	ug/L	505	ND	99.1	71-133	4.38	19	
trans-1,3-Dichloropropene	431.9	10.0	ug/L	501	ND	86.3	65-121	3.28	14	
trans-1,3-Dichloropropene	431.9	10.0	ug/L	501	ND	86.3	63-124	3.28	21	
Ethyl Methacrylate	800.5	100	ug/L	1000	ND	80.0	62-137	2.52	10	
1,1,2-Trichloroethane	509.8	10.0	ug/L	501	ND	102	76-124	3.24	12	
1,1,2-Trichloroethane	509.8	10.0	ug/L	501	ND	102	69-133	3.24	19	
Tetrachloroethylene	558.3	10.0	ug/L	501	ND	111	77-117	5.22	12	
Tetrachloroethylene	558.3	10.0	ug/L	501	ND	111	70-124	5.22	24	

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11C0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0698 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (11C0698-MSD1)	Source: 11C0573-07			Prepared: 03/13/25 00:00 Analyzed: 03/14/25 00:10						
1,3-Dichloropropane	477.0	10.0	ug/L	504	ND	94.6	81-132	3.66	12	
Dibromochloromethane	494.0	10.0	ug/L	501	ND	98.7	77-124	4.82	17	
Dibromochloromethane	494.0	10.0	ug/L	501	ND	98.7	74-122	4.82	21	
1,2-Dibromoethane	477.2	10.0	ug/L	502	ND	95.0	82-117	1.56	14	
1,2-Dibromoethane	477.2	10.0	ug/L	502	ND	95.0	66-127	1.56	23	
Chlorobenzene	483.8	10.0	ug/L	501	ND	96.6	82-114	5.06	11	
Chlorobenzene	483.8	10.0	ug/L	501	ND	96.6	76-116	5.06	21	
1,1,1,2-Tetrachloroethane	506.9	10.0	ug/L	503	ND	101	82-118	5.62	15	
1,1,1,2-Tetrachloroethane	506.9	10.0	ug/L	503	ND	101	77-121	5.62	25	
Ethylbenzene	495.3	10.0	ug/L	502	ND	98.7	80-119	5.31	11	
Ethylbenzene	495.3	10.0	ug/L	502	ND	98.7	73-124	5.31	20	
Xylenes, total	1476	20.0	ug/L	1510	ND	97.7	81-119	5.55	11	
Xylenes, total	1476	20.0	ug/L	1510	ND	97.7	75-123	5.55	20	
Styrene	512.8	10.0	ug/L	504	ND	102	81-119	4.96	12	
Styrene	512.8	10.0	ug/L	504	ND	102	70-120	4.96	23	
Bromoform	477.3	10.0	ug/L	501	ND	95.2	74-122	4.96	12	
Bromoform	477.3	10.0	ug/L	501	ND	95.2	70-124	4.96	22	
1,2,3-Trichloropropane	439.8	10.0	ug/L	503	ND	87.4	72-138	5.96	14	
1,2,3-Trichloropropane	439.8	10.0	ug/L	503	ND	87.4	62-135	5.96	28	
trans-1,4-Dichloro-2-butene	703.1	50.0	ug/L	1000	ND	70.3	56-116	5.32	10	
trans-1,4-Dichloro-2-butene	703.1	50.0	ug/L	1000	ND	70.3	50-120	5.32	26	
1,1,2,2-Tetrachloroethane	418.1	10.0	ug/L	501	ND	83.4	78-126	0.952	13	
1,1,2,2-Tetrachloroethane	418.1	10.0	ug/L	501	ND	83.4	63-126	0.952	24	
1,3-Dichlorobenzene	479.8	10.0	ug/L	501	ND	95.8	81-113	3.00	14	
1,4-Dichlorobenzene	456.9	10.0	ug/L	501	ND	91.2	81-116	2.74	14	
1,4-Dichlorobenzene	456.9	10.0	ug/L	501	ND	91.2	72-119	2.74	24	
1,2-Dichlorobenzene	454.8	10.0	ug/L	501	ND	90.8	81-116	2.48	13	
1,2-Dichlorobenzene	454.8	10.0	ug/L	501	ND	90.8	71-117	2.48	24	
1,2-Dibromo-3-chloropropane	374.5	10.0	ug/L	501	ND	74.7	63-138	5.98	17	
Surrogate: Dibromofluoromethane	522		ug/L	502		104	57-134			
Surrogate: Dibromofluoromethane	522		ug/L	502		104	57-134			
Surrogate: Dibromofluoromethane	522		ug/L	502		104	75-136			
Surrogate: 1,2-Dichloroethane-d4	472		ug/L	501		94.3	53-140			
Surrogate: 1,2-Dichloroethane-d4	472		ug/L	501		94.3	53-140			
Surrogate: 1,2-Dichloroethane-d4	472		ug/L	501		94.3	53-140			
Surrogate: 1,2-Dichloroethane-d4	472		ug/L	501		94.3	61-142			
Surrogate: Toluene-d8	495		ug/L	504		98.2	86-114			
Surrogate: Toluene-d8	495		ug/L	504		98.2	86-114			
Surrogate: Toluene-d8	495		ug/L	504		98.2	86-114			
Surrogate: Toluene-d8	495		ug/L	504		98.2	82-121			
Surrogate: 4-Bromofluorobenzene	504		ug/L	501		100	78-121			
Surrogate: 4-Bromofluorobenzene	504		ug/L	501		100	78-121			
Surrogate: 4-Bromofluorobenzene	504		ug/L	501		100	78-121			
Surrogate: 4-Bromofluorobenzene	504		ug/L	501		100	80-116			

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0774 - EPA 5030B - EPA 8260D										
Blank (1IC0774-BLK1)				Prepared: 03/14/25 00:00 Analyzed: 03/14/25 11:49						
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0774 - EPA 5030B - EPA 8260D										
Blank (1IC0774-BLK1)										
				Prepared: 03/14/25 00:00 Analyzed: 03/14/25 11:49						
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	44.4		ug/L	50.2		88.4	57-134			
Surrogate: Dibromofluoromethane	44.4		ug/L	50.2		88.4	75-136			
Surrogate: 1,2-Dichloroethane-d4	38.8		ug/L	50.1		77.5	53-140			
Surrogate: 1,2-Dichloroethane-d4	38.8		ug/L	50.1		77.5	61-142			
Surrogate: Toluene-d8	46.8		ug/L	50.4		92.9	86-114			
Surrogate: Toluene-d8	46.8		ug/L	50.4		92.9	82-121			
Surrogate: 4-Bromofluorobenzene	45.6		ug/L	50.1		90.8	78-121			
Surrogate: 4-Bromofluorobenzene	45.6		ug/L	50.1		90.8	80-116			
LCS (1IC0774-BS1)										
				Prepared: 03/14/25 00:00 Analyzed: 03/14/25 10:42						
Chloromethane	25.47	1.0	ug/L	30.3		84.0	63-155			
Vinyl Chloride	31.74	1.0	ug/L	30.2		105	70-154			
Bromomethane	33.06	1.0	ug/L	30.1		110	52-176			
Chloroethane	34.90	1.0	ug/L	30.3		115	72-148			
Trichlorofluoromethane	41.05	1.0	ug/L	30.3		135	70-152			
1,1-Dichloroethylene	56.72	1.0	ug/L	50.1		113	70-148			
Acetone	82.51	10.0	ug/L	100		82.5	43-172			
Methyl Iodide	119.2	1.0	ug/L	100		119	69-170			
Carbon Disulfide	111.7	1.0	ug/L	100		112	72-162			
Methylene Chloride	51.61	5.0	ug/L	50.1		103	68-142			
Acrylonitrile	48.32	5.0	ug/L	50.2		96.3	56-135			
trans-1,2-Dichloroethylene	53.23	1.0	ug/L	50.1		106	66-148			
1,1-Dichloroethane	53.49	1.0	ug/L	50.1		107	66-143			
Vinyl Acetate	152.4	5.0	ug/L	140		109	43-153			
cis-1,2-Dichloroethylene	53.33	1.0	ug/L	50.4		106	71-149			
2-Butanone (MEK)	83.54	10.0	ug/L	100		83.5	52-159			
Bromochloromethane	47.49	1.0	ug/L	50.4		94.2	69-143			
Chloroform	54.63	1.0	ug/L	50.1		109	69-144			
1,1,1-Trichloroethane	57.69	1.0	ug/L	50.1		115	62-129			
Carbon Tetrachloride	58.31	1.0	ug/L	50.1		116	63-141			
Benzene	51.48	1.0	ug/L	50.4		102	71-134			
1,2-Dichloroethane	48.90	1.0	ug/L	50.1		97.6	72-132			
Trichloroethylene	56.38	1.0	ug/L	50.1		113	71-135			
1,2-Dichloropropane	49.39	1.0	ug/L	50.1		98.6	69-136			
Dibromomethane	47.09	1.0	ug/L	50.4		93.5	73-147			
Bromodichloromethane	52.64	1.0	ug/L	50.1		105	68-129			
cis-1,3-Dichloropropene	47.33	1.0	ug/L	50.1		94.5	65-134			
4-Methyl-2-pentanone (MIBK)	96.01	5.0	ug/L	100		96.0	58-147			
Toluene	59.47	1.0	ug/L	50.5		118	72-133			
trans-1,3-Dichloropropene	46.03	1.0	ug/L	50.1		91.9	67-130			

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0774 - EPA 5030B - EPA 8260D										
LCS (1IC0774-BS1)										
Prepared: 03/14/25 00:00 Analyzed: 03/14/25 10:42										
1,1,2-Trichloroethane	51.62	1.0	ug/L	50.1		103	69-135			
Tetrachloroethylene	56.58	1.0	ug/L	50.1		113	69-130			
2-Hexanone (MBK)	67.25	5.0	ug/L	100		67.2	55-144			
Dibromochloromethane	49.55	1.0	ug/L	50.1		99.0	73-127			
1,2-Dibromoethane	47.20	1.0	ug/L	50.2		94.0	67-132			
Chlorobenzene	49.77	1.0	ug/L	50.1		99.4	72-123			
1,1,1,2-Tetrachloroethane	50.93	1.0	ug/L	50.3		101	73-127			
Ethylbenzene	50.32	1.0	ug/L	50.2		100	71-127			
Xylenes, total	152.1	2.0	ug/L	151		101	74-127			
Styrene	52.21	1.0	ug/L	50.4		104	66-126			
Bromoform	47.89	1.0	ug/L	50.1		95.6	68-130			
1,2,3-Trichloropropane	45.79	1.0	ug/L	50.3		91.0	63-136			
trans-1,4-Dichloro-2-butene	74.84	5.0	ug/L	100		74.8	54-134			
1,1,2,2-Tetrachloroethane	43.14	1.0	ug/L	50.1		86.1	61-131			
1,4-Dichlorobenzene	48.81	1.0	ug/L	50.1		97.4	70-129			
1,2-Dichlorobenzene	48.34	1.0	ug/L	50.1		96.5	69-126			
1,2-Dibromo-3-chloropropane	37.86	5.0	ug/L	50.1		75.5	50-143			
Surrogate: Dibromofluoromethane	52.8		ug/L	50.2		105	57-134			
Surrogate: Dibromofluoromethane	52.8		ug/L	50.2		105	75-136			
Surrogate: 1,2-Dichloroethane-d4	47.8		ug/L	50.1		95.3	53-140			
Surrogate: 1,2-Dichloroethane-d4	47.8		ug/L	50.1		95.3	61-142			
Surrogate: Toluene-d8	55.6		ug/L	50.4		110	86-114			
Surrogate: Toluene-d8	55.6		ug/L	50.4		110	82-121			
Surrogate: 4-Bromofluorobenzene	48.6		ug/L	50.1		97.0	78-121			
Surrogate: 4-Bromofluorobenzene	48.6		ug/L	50.1		97.0	80-116			
LCS Dup (1IC0774-BSD1)										
Prepared: 03/14/25 00:00 Analyzed: 03/14/25 11:04										
Chloromethane	23.51	1.0	ug/L	30.3		77.5	63-155	8.00	24	
Vinyl Chloride	28.98	1.0	ug/L	30.2		95.8	70-154	9.09	25	
Bromomethane	32.07	1.0	ug/L	30.1		106	52-176	3.04	27	
Chloroethane	32.24	1.0	ug/L	30.3		106	72-148	7.92	25	
Trichlorofluoromethane	37.33	1.0	ug/L	30.3		123	70-152	9.49	26	
1,1-Dichloroethylene	50.91	1.0	ug/L	50.1		102	70-148	10.8	24	
Acetone	79.99	10.0	ug/L	100		80.0	43-172	3.10	30	
Methyl Iodide	109.4	1.0	ug/L	100		109	69-170	8.54	30	
Carbon Disulfide	103.7	1.0	ug/L	100		104	72-162	7.39	24	
Methylene Chloride	48.35	5.0	ug/L	50.1		96.5	68-142	6.52	21	
Acrylonitrile	46.81	5.0	ug/L	50.2		93.2	56-135	3.17	16	
trans-1,2-Dichloroethylene	50.07	1.0	ug/L	50.1		100	66-148	6.12	27	
1,1-Dichloroethane	50.50	1.0	ug/L	50.1		101	66-143	5.75	24	
Vinyl Acetate	147.8	5.0	ug/L	140		106	43-153	3.04	30	
cis-1,2-Dichloroethylene	49.85	1.0	ug/L	50.4		99.0	71-149	6.75	26	
2-Butanone (MEK)	79.75	10.0	ug/L	100		79.8	52-159	4.64	27	
Bromochloromethane	45.57	1.0	ug/L	50.4		90.4	69-143	4.13	23	

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0774 - EPA 5030B - EPA 8260D										
LCS Dup (1IC0774-BSD1)										
Prepared: 03/14/25 00:00 Analyzed: 03/14/25 11:04										
Chloroform	51.51	1.0	ug/L	50.1		103	69-144	5.88	23	
1,1,1-Trichloroethane	52.79	1.0	ug/L	50.1		105	62-129	8.87	24	
Carbon Tetrachloride	53.99	1.0	ug/L	50.1		108	63-141	7.69	25	
Benzene	48.93	1.0	ug/L	50.4		97.0	71-134	5.08	24	
1,2-Dichloroethane	47.67	1.0	ug/L	50.1		95.2	72-132	2.55	24	
Trichloroethylene	53.75	1.0	ug/L	50.1		107	71-135	4.78	24	
1,2-Dichloropropane	47.87	1.0	ug/L	50.1		95.6	69-136	3.13	24	
Dibromomethane	47.04	1.0	ug/L	50.4		93.4	73-147	0.106	25	
Bromodichloromethane	50.73	1.0	ug/L	50.1		101	68-129	3.70	22	
cis-1,3-Dichloropropene	45.78	1.0	ug/L	50.1		91.4	65-134	3.33	23	
4-Methyl-2-pentanone (MIBK)	77.10	5.0	ug/L	100		77.1	58-147	21.8	27	
Toluene	48.67	1.0	ug/L	50.5		96.4	72-133	20.0	24	
trans-1,3-Dichloropropene	44.89	1.0	ug/L	50.1		89.6	67-130	2.51	24	
1,1,2-Trichloroethane	49.50	1.0	ug/L	50.1		98.8	69-135	4.19	23	
Tetrachloroethylene	54.73	1.0	ug/L	50.1		109	69-130	3.32	25	
2-Hexanone (MBK)	66.54	5.0	ug/L	100		66.5	55-144	1.06	25	
Dibromochloromethane	49.61	1.0	ug/L	50.1		99.1	73-127	0.121	22	
1,2-Dibromoethane	48.13	1.0	ug/L	50.2		95.8	67-132	1.95	24	
Chlorobenzene	48.35	1.0	ug/L	50.1		96.5	72-123	2.89	23	
1,1,1,2-Tetrachloroethane	50.61	1.0	ug/L	50.3		101	73-127	0.630	24	
Ethylbenzene	49.12	1.0	ug/L	50.2		97.9	71-127	2.41	26	
Xylenes, total	146.7	2.0	ug/L	151		97.1	74-127	3.63	25	
Styrene	51.08	1.0	ug/L	50.4		101	66-126	2.19	23	
Bromoform	48.57	1.0	ug/L	50.1		96.9	68-130	1.41	23	
1,2,3-Trichloropropane	45.83	1.0	ug/L	50.3		91.0	63-136	0.0873	24	
trans-1,4-Dichloro-2-butene	72.38	5.0	ug/L	100		72.4	54-134	3.34	27	
1,1,2,2-Tetrachloroethane	40.80	1.0	ug/L	50.1		81.4	61-131	5.58	29	
1,4-Dichlorobenzene	46.30	1.0	ug/L	50.1		92.4	70-129	5.28	24	
1,2-Dichlorobenzene	45.60	1.0	ug/L	50.1		91.0	69-126	5.83	26	
1,2-Dibromo-3-chloropropane	38.93	5.0	ug/L	50.1		77.7	50-143	2.79	30	
Surrogate: Dibromofluoromethane	52.2		ug/L	50.2		104	57-134			
Surrogate: Dibromofluoromethane	52.2		ug/L	50.2		104	75-136			
Surrogate: 1,2-Dichloroethane-d4	47.7		ug/L	50.1		95.2	53-140			
Surrogate: 1,2-Dichloroethane-d4	47.7		ug/L	50.1		95.2	61-142			
Surrogate: Toluene-d8	48.9		ug/L	50.4		97.0	86-114			
Surrogate: Toluene-d8	48.9		ug/L	50.4		97.0	82-121			
Surrogate: 4-Bromofluorobenzene	49.9		ug/L	50.1		99.5	78-121			
Surrogate: 4-Bromofluorobenzene	49.9		ug/L	50.1		99.5	80-116			
Matrix Spike (1IC0774-MS1)										
Source: 1IC0854-08 Prepared: 03/14/25 00:00 Analyzed: 03/14/25 16:39										
Chloromethane	235.9	10.0	ug/L	303	ND	77.8	61-152			
Vinyl Chloride	302.7	10.0	ug/L	302	ND	100	66-149			
Bromomethane	317.3	10.0	ug/L	301	ND	105	43-171			
Chloroethane	332.7	10.0	ug/L	303	ND	110	69-148			

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0774 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC0774-MS1)	Source: 1IC0854-08			Prepared: 03/14/25 00:00 Analyzed: 03/14/25 16:39						
Trichlorofluoromethane	409.4	10.0	ug/L	303	ND	135	62-163			
1,1-Dichloroethylene	541.3	10.0	ug/L	501	ND	108	70-148			
Acetone	761.0	100	ug/L	1000	ND	76.1	45-173			
Methyl Iodide	1102	10.0	ug/L	1000	ND	110	62-167			
Carbon Disulfide	1086	10.0	ug/L	1000	ND	109	71-163			
Methylene Chloride	481.0	50.0	ug/L	501	ND	96.0	69-140			
Acrylonitrile	436.1	50.0	ug/L	502	ND	86.9	38-147			
trans-1,2-Dichloroethylene	517.4	10.0	ug/L	501	ND	103	69-144			
1,1-Dichloroethane	513.4	10.0	ug/L	501	ND	102	70-138			
Vinyl Acetate	1420	50.0	ug/L	1400	ND	101	58-142			
cis-1,2-Dichloroethylene	502.6	10.0	ug/L	504	ND	99.8	68-151			
2-Butanone (MEK)	769.2	100	ug/L	1000	ND	76.9	50-160			
Bromochloromethane	451.1	10.0	ug/L	504	ND	89.5	65-143			
Chloroform	518.8	10.0	ug/L	501	ND	104	71-143			
1,1,1-Trichloroethane	556.6	10.0	ug/L	501	ND	111	63-133			
Carbon Tetrachloride	581.6	10.0	ug/L	501	ND	116	63-142			
Benzene	503.2	10.0	ug/L	504	ND	99.8	69-133			
1,2-Dichloroethane	473.8	10.0	ug/L	501	ND	94.6	63-138			
Trichloroethylene	535.2	10.0	ug/L	501	ND	107	71-133			
1,2-Dichloropropane	467.4	10.0	ug/L	501	ND	93.3	69-132			
Dibromomethane	465.5	10.0	ug/L	504	ND	92.4	70-147			
Bromodichloromethane	506.1	10.0	ug/L	501	ND	101	67-130			
cis-1,3-Dichloropropene	445.4	10.0	ug/L	501	ND	88.9	61-126			
4-Methyl-2-pentanone (MIBK)	721.1	50.0	ug/L	1000	ND	72.1	55-147			
Toluene	514.3	10.0	ug/L	505	ND	102	71-133			
trans-1,3-Dichloropropene	431.3	10.0	ug/L	501	ND	86.1	63-124			
1,1,2-Trichloroethane	501.3	10.0	ug/L	501	ND	100	69-133			
Tetrachloroethylene	560.5	10.0	ug/L	501	ND	112	70-124			
2-Hexanone (MBK)	614.0	50.0	ug/L	1000	ND	61.4	53-141			
Dibromochloromethane	473.9	10.0	ug/L	501	ND	94.6	74-122			
1,2-Dibromoethane	458.7	10.0	ug/L	502	ND	91.3	66-127			
Chlorobenzene	480.9	10.0	ug/L	501	ND	96.0	76-116			
1,1,1,2-Tetrachloroethane	495.9	10.0	ug/L	503	ND	98.5	77-121			
Ethylbenzene	497.1	10.0	ug/L	502	ND	99.1	73-124			
Xylenes, total	1471	20.0	ug/L	1510	ND	97.4	75-123			
Styrene	507.5	10.0	ug/L	504	ND	101	70-120			
Bromoform	461.5	10.0	ug/L	501	ND	92.1	70-124			
1,2,3-Trichloropropane	429.7	10.0	ug/L	503	ND	85.4	62-135			
trans-1,4-Dichloro-2-butene	696.7	50.0	ug/L	1000	ND	69.7	50-120			
1,1,2,2-Tetrachloroethane	400.8	10.0	ug/L	501	ND	80.0	63-126			
1,4-Dichlorobenzene	459.7	10.0	ug/L	501	ND	91.7	72-119			
1,2-Dichlorobenzene	454.4	10.0	ug/L	501	ND	90.7	71-117			
1,2-Dibromo-3-chloropropane	357.2	50.0	ug/L	501	ND	71.3	49-134			

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CERTIFICATE OF ANALYSIS

11C0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0774 - EPA 5030B - EPA 8260D										
Matrix Spike (11C0774-MS1)	Source: 11C0854-08			Prepared: 03/14/25 00:00 Analyzed: 03/14/25 16:39						
Surrogate: Dibromofluoromethane	516		ug/L	502		103	57-134			
Surrogate: Dibromofluoromethane	516		ug/L	502		103	75-136			
Surrogate: 1,2-Dichloroethane-d4	474		ug/L	501		94.7	53-140			
Surrogate: 1,2-Dichloroethane-d4	474		ug/L	501		94.7	61-142			
Surrogate: Toluene-d8	504		ug/L	504		100	86-114			
Surrogate: Toluene-d8	504		ug/L	504		100	82-121			
Surrogate: 4-Bromofluorobenzene	496		ug/L	501		99.0	78-121			
Surrogate: 4-Bromofluorobenzene	496		ug/L	501		99.0	80-116			
Matrix Spike Dup (11C0774-MSD1)	Source: 11C0854-08			Prepared: 03/14/25 00:00 Analyzed: 03/14/25 17:01						
Chloromethane	236.3	10.0	ug/L	303	ND	77.9	61-152	0.169	26	
Vinyl Chloride	294.9	10.0	ug/L	302	ND	97.5	66-149	2.61	23	
Bromomethane	313.2	10.0	ug/L	301	ND	104	43-171	1.30	29	
Chloroethane	314.4	10.0	ug/L	303	ND	104	69-148	5.66	25	
Trichlorofluoromethane	382.1	10.0	ug/L	303	ND	126	62-163	6.90	25	
1,1-Dichloroethylene	520.6	10.0	ug/L	501	ND	104	70-148	3.90	22	
Acetone	884.3	100	ug/L	1000	ND	88.4	45-173	15.0	30	
Methyl Iodide	1120	10.0	ug/L	1000	ND	112	62-167	1.68	24	
Carbon Disulfide	1055	10.0	ug/L	1000	ND	106	71-163	2.91	22	
Methylene Chloride	498.6	50.0	ug/L	501	ND	99.5	69-140	3.59	19	
Acrylonitrile	451.6	50.0	ug/L	502	ND	90.0	38-147	3.49	30	
trans-1,2-Dichloroethylene	503.5	10.0	ug/L	501	ND	101	69-144	2.72	22	
1,1-Dichloroethane	507.3	10.0	ug/L	501	ND	101	70-138	1.20	20	
Vinyl Acetate	1490	50.0	ug/L	1400	ND	106	58-142	4.84	24	
cis-1,2-Dichloroethylene	493.9	10.0	ug/L	504	ND	98.1	68-151	1.75	22	
2-Butanone (MEK)	788.8	100	ug/L	1000	ND	78.9	50-160	2.52	23	
Bromochloromethane	454.4	10.0	ug/L	504	ND	90.2	65-143	0.729	22	
Chloroform	508.9	10.0	ug/L	501	ND	102	71-143	1.93	21	
1,1,1-Trichloroethane	538.8	10.0	ug/L	501	ND	108	63-133	3.25	23	
Carbon Tetrachloride	543.4	10.0	ug/L	501	ND	108	63-142	6.79	22	
Benzene	505.7	10.0	ug/L	504	ND	100	69-133	0.496	18	
1,2-Dichloroethane	493.3	10.0	ug/L	501	ND	98.5	63-138	4.03	20	
Trichloroethylene	533.6	10.0	ug/L	501	ND	107	71-133	0.299	23	
1,2-Dichloropropane	482.2	10.0	ug/L	501	ND	96.3	69-132	3.12	20	
Dibromomethane	478.9	10.0	ug/L	504	ND	95.1	70-147	2.84	22	
Bromodichloromethane	514.0	10.0	ug/L	501	ND	103	67-130	1.55	21	
cis-1,3-Dichloropropene	458.2	10.0	ug/L	501	ND	91.5	61-126	2.83	21	
4-Methyl-2-pentanone (MIBK)	775.6	50.0	ug/L	1000	ND	77.6	55-147	7.28	23	
Toluene	511.3	10.0	ug/L	505	ND	101	71-133	0.585	19	
trans-1,3-Dichloropropene	461.7	10.0	ug/L	501	ND	92.2	63-124	6.81	21	
1,1,2-Trichloroethane	513.1	10.0	ug/L	501	ND	102	69-133	2.33	19	
Tetrachloroethylene	535.5	10.0	ug/L	501	ND	107	70-124	4.56	24	
2-Hexanone (MBK)	643.2	50.0	ug/L	1000	ND	64.3	53-141	4.65	24	
Dibromochloromethane	482.9	10.0	ug/L	501	ND	96.4	74-122	1.88	21	

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0774 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IC0774-MSD1)	Source: 1IC0854-08			Prepared: 03/14/25 00:00 Analyzed: 03/14/25 17:01						
1,2-Dibromoethane	465.9	10.0	ug/L	502	ND	92.8	66-127	1.56	23	
Chlorobenzene	482.3	10.0	ug/L	501	ND	96.3	76-116	0.291	21	
1,1,1,2-Tetrachloroethane	487.0	10.0	ug/L	503	ND	96.7	77-121	1.81	25	
Ethylbenzene	483.0	10.0	ug/L	502	ND	96.3	73-124	2.88	20	
Xylenes, total	1472	20.0	ug/L	1510	ND	97.4	75-123	0.0544	20	
Styrene	512.3	10.0	ug/L	504	ND	102	70-120	0.941	23	
Bromoform	470.4	10.0	ug/L	501	ND	93.9	70-124	1.91	22	
1,2,3-Trichloropropane	456.0	10.0	ug/L	503	ND	90.6	62-135	5.94	28	
trans-1,4-Dichloro-2-butene	734.0	50.0	ug/L	1000	ND	73.4	50-120	5.21	26	
1,1,1,2-Tetrachloroethane	421.1	10.0	ug/L	501	ND	84.0	63-126	4.94	24	
1,4-Dichlorobenzene	454.8	10.0	ug/L	501	ND	90.7	72-119	1.07	24	
1,2-Dichlorobenzene	461.1	10.0	ug/L	501	ND	92.0	71-117	1.46	24	
1,2-Dibromo-3-chloropropane	382.7	50.0	ug/L	501	ND	76.3	49-134	6.89	28	
Surrogate: Dibromofluoromethane	519		ug/L	502		103	57-134			
Surrogate: Dibromofluoromethane	519		ug/L	502		103	75-136			
Surrogate: 1,2-Dichloroethane-d4	464		ug/L	501		92.7	53-140			
Surrogate: 1,2-Dichloroethane-d4	464		ug/L	501		92.7	61-142			
Surrogate: Toluene-d8	505		ug/L	504		100	86-114			
Surrogate: Toluene-d8	505		ug/L	504		100	82-121			
Surrogate: 4-Bromofluorobenzene	498		ug/L	501		99.3	78-121			
Surrogate: 4-Bromofluorobenzene	498		ug/L	501		99.3	80-116			

Batch 1IC0807 - EPA 5030B - EPA 8260D

Blank (1IC0807-BLK1)	Prepared: 03/17/25 00:00 Analyzed: 03/17/25 20:21									
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0807 - EPA 5030B - EPA 8260D										
Blank (1IC0807-BLK1)										
Prepared: 03/17/25 00:00 Analyzed: 03/17/25 20:21										
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	43.6		ug/L	50.2		86.8	57-134			
Surrogate: Dibromofluoromethane	43.6		ug/L	50.2		86.8	75-136			
Surrogate: 1,2-Dichloroethane-d4	41.0		ug/L	50.1		81.8	53-140			
Surrogate: 1,2-Dichloroethane-d4	41.0		ug/L	50.1		81.8	61-142			
Surrogate: Toluene-d8	51.8		ug/L	50.4		103	86-114			
Surrogate: Toluene-d8	51.8		ug/L	50.4		103	82-121			
Surrogate: 4-Bromofluorobenzene	50.5		ug/L	50.1		101	78-121			
Surrogate: 4-Bromofluorobenzene	50.5		ug/L	50.1		101	80-116			
Blank (1IC0807-BLK2)										
Prepared: 03/17/25 00:00 Analyzed: 03/18/25 07:10										
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0807 - EPA 5030B - EPA 8260D										
Blank (1IC0807-BLK2)				Prepared: 03/17/25 00:00 Analyzed: 03/18/25 07:10						
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	39.5		ug/L	50.2		78.7	57-134			

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0807 - EPA 5030B - EPA 8260D										
Blank (1IC0807-BLK2)										
				Prepared: 03/17/25 00:00 Analyzed: 03/18/25 07:10						
Surrogate: Dibromofluoromethane	39.5		ug/L	50.2		78.7	75-136			
Surrogate: 1,2-Dichloroethane-d4	37.2		ug/L	50.1		74.2	53-140			
Surrogate: 1,2-Dichloroethane-d4	37.2		ug/L	50.1		74.2	61-142			
Surrogate: Toluene-d8	52.7		ug/L	50.4		105	86-114			
Surrogate: Toluene-d8	52.7		ug/L	50.4		105	82-121			
Surrogate: 4-Bromofluorobenzene	49.5		ug/L	50.1		98.7	78-121			
Surrogate: 4-Bromofluorobenzene	49.5		ug/L	50.1		98.7	80-116			
LCS (1IC0807-BS1)										
				Prepared: 03/17/25 00:00 Analyzed: 03/17/25 19:01						
Chloromethane	31.99	1.0	ug/L	30.3		106	63-155			
Vinyl Chloride	30.87	1.0	ug/L	30.2		102	70-154			
Bromomethane	28.22	1.0	ug/L	30.1		93.7	52-176			
Chloroethane	31.66	1.0	ug/L	30.3		104	72-148			
Trichlorofluoromethane	29.32	1.0	ug/L	30.3		96.7	70-152			
1,1-Dichloroethylene	56.32	1.0	ug/L	50.1		112	70-148			
Acetone	130.6	10.0	ug/L	100		131	43-172			
Methyl Iodide	105.7	1.0	ug/L	100		106	69-170			
Carbon Disulfide	103.6	1.0	ug/L	100		104	72-162			
Methylene Chloride	52.46	5.0	ug/L	50.1		105	68-142			
Acrylonitrile	128.1	5.0	ug/L	50.2		255	56-135			Q4
trans-1,2-Dichloroethylene	56.56	1.0	ug/L	50.1		113	66-148			
1,1-Dichloroethane	56.01	1.0	ug/L	50.1		112	66-143			
Vinyl Acetate	182.9	5.0	ug/L	140		131	43-153			
cis-1,2-Dichloroethylene	56.29	1.0	ug/L	50.4		112	71-149			
2-Butanone (MEK)	108.2	10.0	ug/L	100		108	52-159			
Bromochloromethane	57.54	1.0	ug/L	50.4		114	69-143			
Chloroform	55.06	1.0	ug/L	50.1		110	69-144			
1,1,1-Trichloroethane	55.17	1.0	ug/L	50.1		110	62-129			
Carbon Tetrachloride	55.05	1.0	ug/L	50.1		110	63-141			
Benzene	49.00	1.0	ug/L	50.4		97.2	71-134			
1,2-Dichloroethane	55.01	1.0	ug/L	50.1		110	72-132			
Trichloroethylene	50.10	1.0	ug/L	50.1		100	71-135			
1,2-Dichloropropane	51.79	1.0	ug/L	50.1		103	69-136			
Dibromomethane	55.44	1.0	ug/L	50.4		110	73-147			
Bromodichloromethane	54.46	1.0	ug/L	50.1		109	68-129			
cis-1,3-Dichloropropene	54.03	1.0	ug/L	50.1		108	65-134			
4-Methyl-2-pentanone (MIBK)	112.0	5.0	ug/L	100		112	58-147			
Toluene	52.24	1.0	ug/L	50.5		103	72-133			
trans-1,3-Dichloropropene	54.08	1.0	ug/L	50.1		108	67-130			
1,1,2-Trichloroethane	51.16	1.0	ug/L	50.1		102	69-135			
Tetrachloroethylene	48.66	1.0	ug/L	50.1		97.1	69-130			
2-Hexanone (MBK)	121.3	5.0	ug/L	100		121	55-144			
Dibromochloromethane	55.26	1.0	ug/L	50.1		110	73-127			
1,2-Dibromoethane	55.88	1.0	ug/L	50.2		111	67-132			

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0807 - EPA 5030B - EPA 8260D										
LCS (1IC0807-BS1)										
Prepared: 03/17/25 00:00 Analyzed: 03/17/25 19:01										
Chlorobenzene	48.27	1.0	ug/L	50.1		96.4	72-123			
1,1,1,2-Tetrachloroethane	50.14	1.0	ug/L	50.3		99.6	73-127			
Ethylbenzene	51.97	1.0	ug/L	50.2		104	71-127			
Xylenes, total	160.4	2.0	ug/L	151		106	74-127			
Styrene	55.39	1.0	ug/L	50.4		110	66-126			
Bromoform	55.24	1.0	ug/L	50.1		110	68-130			
1,2,3-Trichloropropane	49.38	1.0	ug/L	50.3		98.1	63-136			
trans-1,4-Dichloro-2-butene	110.5	5.0	ug/L	100		111	54-134			
1,1,2,2-Tetrachloroethane	51.21	1.0	ug/L	50.1		102	61-131			
1,4-Dichlorobenzene	49.20	1.0	ug/L	50.1		98.2	70-129			
1,2-Dichlorobenzene	54.00	1.0	ug/L	50.1		108	69-126			
1,2-Dibromo-3-chloropropane	59.61	5.0	ug/L	50.1		119	50-143			
Surrogate: Dibromofluoromethane	55.3		ug/L	50.2		110	57-134			
Surrogate: Dibromofluoromethane	55.3		ug/L	50.2		110	75-136			
Surrogate: 1,2-Dichloroethane-d4	55.2		ug/L	50.1		110	53-140			
Surrogate: 1,2-Dichloroethane-d4	55.2		ug/L	50.1		110	61-142			
Surrogate: Toluene-d8	50.2		ug/L	50.4		99.6	86-114			
Surrogate: Toluene-d8	50.2		ug/L	50.4		99.6	82-121			
Surrogate: 4-Bromofluorobenzene	53.0		ug/L	50.1		106	78-121			
Surrogate: 4-Bromofluorobenzene	53.0		ug/L	50.1		106	80-116			
LCS (1IC0807-BS2)										
Prepared: 03/17/25 00:00 Analyzed: 03/18/25 05:19										
Chloromethane	32.41	1.0	ug/L	30.3		107	63-155			
Vinyl Chloride	32.87	1.0	ug/L	30.2		109	70-154			
Bromomethane	30.60	1.0	ug/L	30.1		102	52-176			
Chloroethane	31.37	1.0	ug/L	30.3		103	72-148			
Trichlorofluoromethane	33.69	1.0	ug/L	30.3		111	70-152			
1,1-Dichloroethylene	56.66	1.0	ug/L	50.1		113	70-148			
Acetone	132.7	10.0	ug/L	100		133	43-172			
Methyl Iodide	100.7	1.0	ug/L	100		101	69-170			
Carbon Disulfide	103.5	1.0	ug/L	100		104	72-162			
Methylene Chloride	49.57	5.0	ug/L	50.1		98.9	68-142			
Acrylonitrile	57.03	5.0	ug/L	50.2		114	56-135			
trans-1,2-Dichloroethylene	56.18	1.0	ug/L	50.1		112	66-148			
1,1-Dichloroethane	56.08	1.0	ug/L	50.1		112	66-143			
Vinyl Acetate	172.8	5.0	ug/L	140		123	43-153			
cis-1,2-Dichloroethylene	56.61	1.0	ug/L	50.4		112	71-149			
2-Butanone (MEK)	111.6	10.0	ug/L	100		112	52-159			
Bromochloromethane	56.23	1.0	ug/L	50.4		112	69-143			
Chloroform	56.17	1.0	ug/L	50.1		112	69-144			
1,1,1-Trichloroethane	56.43	1.0	ug/L	50.1		113	62-129			
Carbon Tetrachloride	55.95	1.0	ug/L	50.1		112	63-141			
Benzene	50.09	1.0	ug/L	50.4		99.3	71-134			
1,2-Dichloroethane	53.51	1.0	ug/L	50.1		107	72-132			

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0807 - EPA 5030B - EPA 8260D										
LCS (1IC0807-BS2)										
Prepared: 03/17/25 00:00 Analyzed: 03/18/25 05:19										
Trichloroethylene	51.60	1.0	ug/L	50.1		103	71-135			
1,2-Dichloropropane	52.02	1.0	ug/L	50.1		104	69-136			
Dibromomethane	54.39	1.0	ug/L	50.4		108	73-147			
Bromodichloromethane	54.07	1.0	ug/L	50.1		108	68-129			
cis-1,3-Dichloropropene	51.63	1.0	ug/L	50.1		103	65-134			
4-Methyl-2-pentanone (MIBK)	112.6	5.0	ug/L	100		113	58-147			
Toluene	53.33	1.0	ug/L	50.5		106	72-133			
trans-1,3-Dichloropropene	50.10	1.0	ug/L	50.1		100	67-130			
1,1,2-Trichloroethane	52.01	1.0	ug/L	50.1		104	69-135			
Tetrachloroethylene	49.42	1.0	ug/L	50.1		98.6	69-130			
2-Hexanone (MBK)	114.2	5.0	ug/L	100		114	55-144			
Dibromochloromethane	55.13	1.0	ug/L	50.1		110	73-127			
1,2-Dibromoethane	53.91	1.0	ug/L	50.2		107	67-132			
Chlorobenzene	49.01	1.0	ug/L	50.1		97.9	72-123			
1,1,1,2-Tetrachloroethane	48.88	1.0	ug/L	50.3		97.1	73-127			
Ethylbenzene	52.41	1.0	ug/L	50.2		104	71-127			
Xylenes, total	158.3	2.0	ug/L	151		105	74-127			
Styrene	54.76	1.0	ug/L	50.4		109	66-126			
Bromoform	56.81	1.0	ug/L	50.1		113	68-130			
1,2,3-Trichloropropane	50.18	1.0	ug/L	50.3		99.7	63-136			
trans-1,4-Dichloro-2-butene	96.39	5.0	ug/L	100		96.4	54-134			
1,1,2,2-Tetrachloroethane	49.19	1.0	ug/L	50.1		98.2	61-131			
1,4-Dichlorobenzene	47.98	1.0	ug/L	50.1		95.7	70-129			
1,2-Dichlorobenzene	51.40	1.0	ug/L	50.1		103	69-126			
1,2-Dibromo-3-chloropropane	56.43	5.0	ug/L	50.1		113	50-143			
Surrogate: Dibromofluoromethane	56.0		ug/L	50.2		112	57-134			
Surrogate: Dibromofluoromethane	56.0		ug/L	50.2		112	75-136			
Surrogate: 1,2-Dichloroethane-d4	55.4		ug/L	50.1		111	53-140			
Surrogate: 1,2-Dichloroethane-d4	55.4		ug/L	50.1		111	61-142			
Surrogate: Toluene-d8	50.2		ug/L	50.4		99.7	86-114			
Surrogate: Toluene-d8	50.2		ug/L	50.4		99.7	82-121			
Surrogate: 4-Bromofluorobenzene	52.2		ug/L	50.1		104	78-121			
Surrogate: 4-Bromofluorobenzene	52.2		ug/L	50.1		104	80-116			
LCS Dup (1IC0807-BS2)										
Prepared: 03/17/25 00:00 Analyzed: 03/18/25 05:41										
Chloromethane	30.24	1.0	ug/L	30.3		99.7	63-155	6.93	24	
Vinyl Chloride	30.29	1.0	ug/L	30.2		100	70-154	8.17	25	
Bromomethane	29.35	1.0	ug/L	30.1		97.4	52-176	4.17	27	
Chloroethane	29.21	1.0	ug/L	30.3		96.3	72-148	7.13	25	
Trichlorofluoromethane	31.08	1.0	ug/L	30.3		103	70-152	8.06	26	
1,1-Dichloroethylene	53.21	1.0	ug/L	50.1		106	70-148	6.28	24	
Acetone	128.2	10.0	ug/L	100		128	43-172	3.43	30	
Methyl Iodide	95.17	1.0	ug/L	100		95.2	69-170	5.65	30	
Carbon Disulfide	97.35	1.0	ug/L	100		97.4	72-162	6.13	24	

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0807 - EPA 5030B - EPA 8260D										
LCS Dup (1IC0807-BSD2)										
Prepared: 03/17/25 00:00 Analyzed: 03/18/25 05:41										
Methylene Chloride	47.40	5.0	ug/L	50.1		94.6	68-142	4.48	21	
Acrylonitrile	55.77	5.0	ug/L	50.2		111	56-135	2.23	16	
trans-1,2-Dichloroethylene	53.13	1.0	ug/L	50.1		106	66-148	5.58	27	
1,1-Dichloroethane	53.13	1.0	ug/L	50.1		106	66-143	5.40	24	
Vinyl Acetate	170.5	5.0	ug/L	140		122	43-153	1.36	30	
cis-1,2-Dichloroethylene	53.57	1.0	ug/L	50.4		106	71-149	5.52	26	
2-Butanone (MEK)	104.5	10.0	ug/L	100		105	52-159	6.53	27	
Bromochloromethane	55.07	1.0	ug/L	50.4		109	69-143	2.08	23	
Chloroform	52.62	1.0	ug/L	50.1		105	69-144	6.53	23	
1,1,1-Trichloroethane	53.00	1.0	ug/L	50.1		106	62-129	6.27	24	
Carbon Tetrachloride	52.13	1.0	ug/L	50.1		104	63-141	7.07	25	
Benzene	48.15	1.0	ug/L	50.4		95.5	71-134	3.95	24	
1,2-Dichloroethane	52.28	1.0	ug/L	50.1		104	72-132	2.33	24	
Trichloroethylene	47.77	1.0	ug/L	50.1		95.4	71-135	7.71	24	
1,2-Dichloropropane	49.87	1.0	ug/L	50.1		99.6	69-136	4.22	24	
Dibromomethane	53.04	1.0	ug/L	50.4		105	73-147	2.51	25	
Bromodichloromethane	52.72	1.0	ug/L	50.1		105	68-129	2.53	22	
cis-1,3-Dichloropropene	49.96	1.0	ug/L	50.1		99.8	65-134	3.29	23	
4-Methyl-2-pentanone (MIBK)	112.4	5.0	ug/L	100		112	58-147	0.204	27	
Toluene	50.54	1.0	ug/L	50.5		100	72-133	5.37	24	
trans-1,3-Dichloropropene	48.04	1.0	ug/L	50.1		95.9	67-130	4.20	24	
1,1,2-Trichloroethane	50.12	1.0	ug/L	50.1		100	69-135	3.70	23	
Tetrachloroethylene	47.42	1.0	ug/L	50.1		94.7	69-130	4.13	25	
2-Hexanone (MBK)	115.0	5.0	ug/L	100		115	55-144	0.733	25	
Dibromochloromethane	52.89	1.0	ug/L	50.1		106	73-127	4.15	22	
1,2-Dibromoethane	53.48	1.0	ug/L	50.2		106	67-132	0.801	24	
Chlorobenzene	47.03	1.0	ug/L	50.1		93.9	72-123	4.12	23	
1,1,1,2-Tetrachloroethane	47.80	1.0	ug/L	50.3		94.9	73-127	2.23	24	
Ethylbenzene	50.17	1.0	ug/L	50.2		100	71-127	4.37	26	
Xylenes, total	151.9	2.0	ug/L	151		101	74-127	4.17	25	
Styrene	53.03	1.0	ug/L	50.4		105	66-126	3.21	23	
Bromoform	53.13	1.0	ug/L	50.1		106	68-130	6.69	23	
1,2,3-Trichloropropane	49.89	1.0	ug/L	50.3		99.1	63-136	0.580	24	
trans-1,4-Dichloro-2-butene	93.88	5.0	ug/L	100		93.9	54-134	2.64	27	
1,1,2,2-Tetrachloroethane	49.88	1.0	ug/L	50.1		99.6	61-131	1.39	29	
1,4-Dichlorobenzene	46.49	1.0	ug/L	50.1		92.7	70-129	3.15	24	
1,2-Dichlorobenzene	49.89	1.0	ug/L	50.1		99.6	69-126	2.98	26	
1,2-Dibromo-3-chloropropane	55.27	5.0	ug/L	50.1		110	50-143	2.08	30	
Surrogate: Dibromofluoromethane	54.1		ug/L	50.2		108	57-134			
Surrogate: Dibromofluoromethane	54.1		ug/L	50.2		108	75-136			
Surrogate: 1,2-Dichloroethane-d4	54.7		ug/L	50.1		109	53-140			
Surrogate: 1,2-Dichloroethane-d4	54.7		ug/L	50.1		109	61-142			
Surrogate: Toluene-d8	49.7		ug/L	50.4		98.7	86-114			

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0807 - EPA 5030B - EPA 8260D										
LCS Dup (1IC0807-BSD2)				Prepared: 03/17/25 00:00 Analyzed: 03/18/25 05:41						
Surrogate: Toluene-d8	49.7		ug/L	50.4		98.7	82-121			
Surrogate: 4-Bromofluorobenzene	51.8		ug/L	50.1		103	78-121			
Surrogate: 4-Bromofluorobenzene	51.8		ug/L	50.1		103	80-116			
Matrix Spike (1IC0807-MS1)				Source: 1IC0696-04 Prepared: 03/17/25 00:00 Analyzed: 03/18/25 03:49						
Chloromethane	329.9	10.0	ug/L	303	ND	109	61-152			
Vinyl Chloride	342.5	10.0	ug/L	302	ND	113	66-149			
Bromomethane	311.5	10.0	ug/L	301	ND	103	43-171			
Chloroethane	331.4	10.0	ug/L	303	ND	109	69-148			
Trichlorofluoromethane	350.6	10.0	ug/L	303	ND	116	62-163			
1,1-Dichloroethylene	583.7	10.0	ug/L	501	ND	116	70-148			
Acetone	2086	100	ug/L	1000	ND	209	45-173			M1
Methyl Iodide	1021	10.0	ug/L	1000	ND	102	62-167			
Carbon Disulfide	1071	10.0	ug/L	1000	ND	107	71-163			
Methylene Chloride	503.7	50.0	ug/L	501	ND	101	69-140			
Acrylonitrile	592.1	50.0	ug/L	502	ND	118	38-147			
trans-1,2-Dichloroethylene	565.4	10.0	ug/L	501	ND	113	69-144			
1,1-Dichloroethane	569.7	10.0	ug/L	501	ND	114	70-138			
Vinyl Acetate	1710	50.0	ug/L	1400	ND	122	58-142			
cis-1,2-Dichloroethylene	575.6	10.0	ug/L	504	ND	114	68-151			
2-Butanone (MEK)	1091	100	ug/L	1000	ND	109	50-160			
Bromochloromethane	575.2	10.0	ug/L	504	ND	114	65-143			
Chloroform	562.3	10.0	ug/L	501	ND	112	71-143			
1,1,1-Trichloroethane	568.3	10.0	ug/L	501	ND	113	63-133			
Carbon Tetrachloride	569.5	10.0	ug/L	501	ND	114	63-142			
Benzene	504.3	10.0	ug/L	504	ND	100	69-133			
1,2-Dichloroethane	530.4	10.0	ug/L	501	ND	106	63-138			
Trichloroethylene	517.5	10.0	ug/L	501	ND	103	71-133			
1,2-Dichloropropane	514.7	10.0	ug/L	501	ND	103	69-132			
Dibromomethane	549.4	10.0	ug/L	504	ND	109	70-147			
Bromodichloromethane	537.5	10.0	ug/L	501	ND	107	67-130			
cis-1,3-Dichloropropene	502.0	10.0	ug/L	501	ND	100	61-126			
4-Methyl-2-pentanone (MIBK)	1126	50.0	ug/L	1000	ND	113	55-147			
Toluene	542.8	10.0	ug/L	505	ND	108	71-133			
trans-1,3-Dichloropropene	477.5	10.0	ug/L	501	ND	95.4	63-124			
1,1,2-Trichloroethane	533.4	10.0	ug/L	501	ND	106	69-133			
Tetrachloroethylene	498.5	10.0	ug/L	501	ND	99.5	70-124			
2-Hexanone (MBK)	1154	50.0	ug/L	1000	ND	115	53-141			
Dibromochloromethane	543.7	10.0	ug/L	501	ND	109	74-122			
1,2-Dibromoethane	543.0	10.0	ug/L	502	ND	108	66-127			
Chlorobenzene	491.2	10.0	ug/L	501	ND	98.1	76-116			
1,1,1,2-Tetrachloroethane	503.0	10.0	ug/L	503	ND	99.9	77-121			
Ethylbenzene	530.2	10.0	ug/L	502	ND	106	73-124			

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CERTIFICATE OF ANALYSIS

11C0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0807 - EPA 5030B - EPA 8260D										
Matrix Spike (11C0807-MS1)	Source: 11C0696-04			Prepared: 03/17/25 00:00 Analyzed: 03/18/25 03:49						
Xylenes, total	1615	20.0	ug/L	1510	ND	107	75-123			
Styrene	550.2	10.0	ug/L	504	ND	109	70-120			
Bromoform	530.5	10.0	ug/L	501	ND	106	70-124			
1,2,3-Trichloropropane	527.4	10.0	ug/L	503	ND	105	62-135			
trans-1,4-Dichloro-2-butene	1015	50.0	ug/L	1000	ND	101	50-120			
1,1,2,2-Tetrachloroethane	511.0	10.0	ug/L	501	ND	102	63-126			
1,4-Dichlorobenzene	491.5	10.0	ug/L	501	ND	98.1	72-119			
1,2-Dichlorobenzene	510.9	10.0	ug/L	501	ND	102	71-117			
1,2-Dibromo-3-chloropropane	594.5	50.0	ug/L	501	ND	119	49-134			
Surrogate: Dibromofluoromethane	561		ug/L	502		112	57-134			
Surrogate: Dibromofluoromethane	561		ug/L	502		112	75-136			
Surrogate: 1,2-Dichloroethane-d4	545		ug/L	501		109	53-140			
Surrogate: 1,2-Dichloroethane-d4	545		ug/L	501		109	61-142			
Surrogate: Toluene-d8	502		ug/L	504		99.7	86-114			
Surrogate: Toluene-d8	502		ug/L	504		99.7	82-121			
Surrogate: 4-Bromofluorobenzene	512		ug/L	501		102	78-121			
Surrogate: 4-Bromofluorobenzene	512		ug/L	501		102	80-116			
Matrix Spike (11C0807-MS2)	Source: 11C0854-15			Prepared: 03/17/25 00:00 Analyzed: 03/18/25 06:03						
Chloromethane	308.2	10.0	ug/L	303	ND	102	61-152			
Vinyl Chloride	313.4	10.0	ug/L	302	ND	104	66-149			
Bromomethane	292.8	10.0	ug/L	301	ND	97.2	43-171			
Chloroethane	304.3	10.0	ug/L	303	ND	100	69-148			
Trichlorofluoromethane	324.5	10.0	ug/L	303	ND	107	62-163			
1,1-Dichloroethylene	563.7	10.0	ug/L	501	ND	112	70-148			
Acetone	1331	100	ug/L	1000	ND	133	45-173			
Methyl Iodide	977.5	10.0	ug/L	1000	ND	97.8	62-167			
Carbon Disulfide	1019	10.0	ug/L	1000	ND	102	71-163			
Methylene Chloride	480.2	50.0	ug/L	501	ND	95.8	69-140			
Acrylonitrile	580.7	50.0	ug/L	502	ND	116	38-147			
trans-1,2-Dichloroethylene	560.3	10.0	ug/L	501	ND	112	69-144			
1,1-Dichloroethane	561.0	10.0	ug/L	501	ND	112	70-138			
Vinyl Acetate	1732	50.0	ug/L	1400	ND	124	58-142			
cis-1,2-Dichloroethylene	563.5	10.0	ug/L	504	ND	112	68-151			
2-Butanone (MEK)	1128	100	ug/L	1000	ND	113	50-160			
Bromochloromethane	565.7	10.0	ug/L	504	ND	112	65-143			
Chloroform	553.5	10.0	ug/L	501	ND	111	71-143			
1,1,1-Trichloroethane	560.7	10.0	ug/L	501	ND	112	63-133			
Carbon Tetrachloride	553.3	10.0	ug/L	501	ND	110	63-142			
Benzene	484.7	10.0	ug/L	504	ND	96.1	69-133			
1,2-Dichloroethane	527.5	10.0	ug/L	501	ND	105	63-138			
Trichloroethylene	505.1	10.0	ug/L	501	ND	101	71-133			
1,2-Dichloropropane	506.4	10.0	ug/L	501	ND	101	69-132			
Dibromomethane	525.4	10.0	ug/L	504	ND	104	70-147			

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0807 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC0807-MS2)	Source: 1IC0854-15			Prepared: 03/17/25 00:00 Analyzed: 03/18/25 06:03						
Bromodichloromethane	529.9	10.0	ug/L	501	ND	106	67-130			
cis-1,3-Dichloropropene	503.5	10.0	ug/L	501	ND	101	61-126			
4-Methyl-2-pentanone (MIBK)	1105	50.0	ug/L	1000	ND	111	55-147			
Toluene	513.9	10.0	ug/L	505	ND	102	71-133			
trans-1,3-Dichloropropene	479.2	10.0	ug/L	501	ND	95.7	63-124			
1,1,2-Trichloroethane	505.3	10.0	ug/L	501	ND	101	69-133			
Tetrachloroethylene	486.6	10.0	ug/L	501	ND	97.1	70-124			
2-Hexanone (MBK)	1154	50.0	ug/L	1000	ND	115	53-141			
Dibromochloromethane	544.9	10.0	ug/L	501	ND	109	74-122			
1,2-Dibromoethane	535.3	10.0	ug/L	502	ND	107	66-127			
Chlorobenzene	483.8	10.0	ug/L	501	ND	96.6	76-116			
1,1,1,2-Tetrachloroethane	493.2	10.0	ug/L	503	ND	98.0	77-121			
Ethylbenzene	516.5	10.0	ug/L	502	ND	103	73-124			
Xylenes, total	1550	20.0	ug/L	1510	ND	103	75-123			
Styrene	543.6	10.0	ug/L	504	ND	108	70-120			
Bromoform	537.0	10.0	ug/L	501	ND	107	70-124			
1,2,3-Trichloropropane	485.3	10.0	ug/L	503	ND	96.4	62-135			
trans-1,4-Dichloro-2-butene	944.2	50.0	ug/L	1000	ND	94.4	50-120			
1,1,2,2-Tetrachloroethane	486.8	10.0	ug/L	501	ND	97.2	63-126			
1,4-Dichlorobenzene	459.4	10.0	ug/L	501	ND	91.7	72-119			
1,2-Dichlorobenzene	490.7	10.0	ug/L	501	ND	98.0	71-117			
1,2-Dibromo-3-chloropropane	553.9	50.0	ug/L	501	ND	110	49-134			
Surrogate: Dibromofluoromethane	566		ug/L	502		113	57-134			
Surrogate: Dibromofluoromethane	566		ug/L	502		113	75-136			
Surrogate: 1,2-Dichloroethane-d4	558		ug/L	501		111	53-140			
Surrogate: 1,2-Dichloroethane-d4	558		ug/L	501		111	61-142			
Surrogate: Toluene-d8	490		ug/L	504		97.3	86-114			
Surrogate: Toluene-d8	490		ug/L	504		97.3	82-121			
Surrogate: 4-Bromofluorobenzene	518		ug/L	501		103	78-121			
Surrogate: 4-Bromofluorobenzene	518		ug/L	501		103	80-116			
Matrix Spike Dup (1IC0807-MSD1)	Source: 1IC0696-04			Prepared: 03/17/25 00:00 Analyzed: 03/18/25 04:12						
Chloromethane	300.6	10.0	ug/L	303	ND	99.1	61-152	9.29	26	
Vinyl Chloride	301.0	10.0	ug/L	302	ND	99.5	66-149	12.9	23	
Bromomethane	287.6	10.0	ug/L	301	ND	95.5	43-171	7.98	29	
Chloroethane	298.5	10.0	ug/L	303	ND	98.5	69-148	10.4	25	
Trichlorofluoromethane	309.9	10.0	ug/L	303	ND	102	62-163	12.3	25	
1,1-Dichloroethylene	528.3	10.0	ug/L	501	ND	105	70-148	9.96	22	
Acetone	1332	100	ug/L	1000	ND	133	45-173	44.1	30	R1
Methyl Iodide	931.5	10.0	ug/L	1000	ND	93.2	62-167	9.19	24	
Carbon Disulfide	972.3	10.0	ug/L	1000	ND	97.2	71-163	9.65	22	
Methylene Chloride	475.7	50.0	ug/L	501	ND	94.9	69-140	5.72	19	
Acrylonitrile	593.1	50.0	ug/L	502	ND	118	38-147	0.169	30	
trans-1,2-Dichloroethylene	530.2	10.0	ug/L	501	ND	106	69-144	6.43	22	

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0807 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IC0807-MSD1)	Source: 1IC0696-04			Prepared: 03/17/25 00:00 Analyzed: 03/18/25 04:12						
1,1-Dichloroethane	536.5	10.0	ug/L	501	ND	107	70-138	6.00	20	
Vinyl Acetate	1680	50.0	ug/L	1400	ND	120	58-142	1.83	24	
cis-1,2-Dichloroethylene	540.0	10.0	ug/L	504	ND	107	68-151	6.38	22	
2-Butanone (MEK)	1050	100	ug/L	1000	ND	105	50-160	3.88	23	
Bromochloromethane	552.7	10.0	ug/L	504	ND	110	65-143	3.99	22	
Chloroform	527.0	10.0	ug/L	501	ND	105	71-143	6.48	21	
1,1,1-Trichloroethane	525.2	10.0	ug/L	501	ND	105	63-133	7.88	23	
Carbon Tetrachloride	520.7	10.0	ug/L	501	ND	104	63-142	8.95	22	
Benzene	471.2	10.0	ug/L	504	ND	93.4	69-133	6.79	18	
1,2-Dichloroethane	517.3	10.0	ug/L	501	ND	103	63-138	2.50	20	
Trichloroethylene	477.4	10.0	ug/L	501	ND	95.3	71-133	8.06	23	
1,2-Dichloropropane	502.4	10.0	ug/L	501	ND	100	69-132	2.42	20	
Dibromomethane	525.8	10.0	ug/L	504	ND	104	70-147	4.39	22	
Bromodichloromethane	515.4	10.0	ug/L	501	ND	103	67-130	4.20	21	
cis-1,3-Dichloropropene	492.3	10.0	ug/L	501	ND	98.3	61-126	1.95	21	
4-Methyl-2-pentanone (MIBK)	1102	50.0	ug/L	1000	ND	110	55-147	2.13	23	
Toluene	502.2	10.0	ug/L	505	ND	99.5	71-133	7.77	19	
trans-1,3-Dichloropropene	472.1	10.0	ug/L	501	ND	94.3	63-124	1.14	21	
1,1,2-Trichloroethane	500.0	10.0	ug/L	501	ND	99.8	69-133	6.46	19	
Tetrachloroethylene	454.7	10.0	ug/L	501	ND	90.8	70-124	9.19	24	
2-Hexanone (MBK)	1127	50.0	ug/L	1000	ND	113	53-141	2.33	24	
Dibromochloromethane	535.5	10.0	ug/L	501	ND	107	74-122	1.52	21	
1,2-Dibromoethane	539.7	10.0	ug/L	502	ND	107	66-127	0.610	23	
Chlorobenzene	462.4	10.0	ug/L	501	ND	92.3	76-116	6.04	21	
1,1,1,2-Tetrachloroethane	481.3	10.0	ug/L	503	ND	95.6	77-121	4.41	25	
Ethylbenzene	489.2	10.0	ug/L	502	ND	97.5	73-124	8.04	20	
Xylenes, total	1490	20.0	ug/L	1510	ND	98.6	75-123	8.06	20	
Styrene	522.0	10.0	ug/L	504	ND	104	70-120	5.26	23	
Bromoform	524.0	10.0	ug/L	501	ND	105	70-124	1.23	22	
1,2,3-Trichloropropane	466.8	10.0	ug/L	503	ND	92.7	62-135	12.2	28	
trans-1,4-Dichloro-2-butene	963.4	50.0	ug/L	1000	ND	96.3	50-120	5.18	26	
1,1,2,2-Tetrachloroethane	500.4	10.0	ug/L	501	ND	99.9	63-126	2.10	24	
1,4-Dichlorobenzene	463.7	10.0	ug/L	501	ND	92.5	72-119	5.82	24	
1,2-Dichlorobenzene	490.6	10.0	ug/L	501	ND	97.9	71-117	4.05	24	
1,2-Dibromo-3-chloropropane	600.0	50.0	ug/L	501	ND	120	49-134	0.921	28	
Surrogate: Dibromofluoromethane	545		ug/L	502		109	57-134			
Surrogate: Dibromofluoromethane	545		ug/L	502		109	75-136			
Surrogate: 1,2-Dichloroethane-d4	573		ug/L	501		114	53-140			
Surrogate: 1,2-Dichloroethane-d4	573		ug/L	501		114	61-142			
Surrogate: Toluene-d8	496		ug/L	504		98.5	86-114			
Surrogate: Toluene-d8	496		ug/L	504		98.5	82-121			
Surrogate: 4-Bromofluorobenzene	508		ug/L	501		101	78-121			
Surrogate: 4-Bromofluorobenzene	508		ug/L	501		101	80-116			

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CERTIFICATE OF ANALYSIS

11C0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0807 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (11C0807-MSD2)	Source: 11C0854-15			Prepared: 03/17/25 00:00 Analyzed: 03/18/25 06:26						
Chloromethane	289.8	10.0	ug/L	303	ND	95.6	61-152	6.15	26	
Vinyl Chloride	288.9	10.0	ug/L	302	ND	95.5	66-149	8.14	23	
Bromomethane	276.2	10.0	ug/L	301	ND	91.7	43-171	5.83	29	
Chloroethane	288.5	10.0	ug/L	303	ND	95.2	69-148	5.33	25	
Trichlorofluoromethane	286.9	10.0	ug/L	303	ND	94.7	62-163	12.3	25	
1,1-Dichloroethylene	497.8	10.0	ug/L	501	ND	99.3	70-148	12.4	22	
Acetone	1176	100	ug/L	1000	ND	118	45-173	12.3	30	
Methyl Iodide	913.8	10.0	ug/L	1000	ND	91.4	62-167	6.74	24	
Carbon Disulfide	929.9	10.0	ug/L	1000	ND	93.0	71-163	9.10	22	
Methylene Chloride	448.3	50.0	ug/L	501	ND	89.5	69-140	6.87	19	
Acrylonitrile	541.9	50.0	ug/L	502	ND	108	38-147	6.91	30	
trans-1,2-Dichloroethylene	491.6	10.0	ug/L	501	ND	98.1	69-144	13.1	22	
1,1-Dichloroethane	488.8	10.0	ug/L	501	ND	97.6	70-138	13.8	20	
Vinyl Acetate	1556	50.0	ug/L	1400	ND	111	58-142	10.7	24	
cis-1,2-Dichloroethylene	496.4	10.0	ug/L	504	ND	98.6	68-151	12.7	22	
2-Butanone (MEK)	1031	100	ug/L	1000	ND	103	50-160	8.98	23	
Bromochloromethane	506.1	10.0	ug/L	504	ND	100	65-143	11.1	22	
Chloroform	488.0	10.0	ug/L	501	ND	97.4	71-143	12.6	21	
1,1,1-Trichloroethane	501.4	10.0	ug/L	501	ND	100	63-133	11.2	23	
Carbon Tetrachloride	496.6	10.0	ug/L	501	ND	99.1	63-142	10.8	22	
Benzene	448.0	10.0	ug/L	504	ND	88.8	69-133	7.87	18	
1,2-Dichloroethane	482.7	10.0	ug/L	501	ND	96.4	63-138	8.87	20	
Trichloroethylene	463.1	10.0	ug/L	501	ND	92.4	71-133	8.68	23	
1,2-Dichloropropane	470.2	10.0	ug/L	501	ND	93.9	69-132	7.41	20	
Dibromomethane	489.1	10.0	ug/L	504	ND	97.1	70-147	7.16	22	
Bromodichloromethane	483.2	10.0	ug/L	501	ND	96.5	67-130	9.22	21	
cis-1,3-Dichloropropene	464.4	10.0	ug/L	501	ND	92.7	61-126	8.08	21	
4-Methyl-2-pentanone (MIBK)	1055	50.0	ug/L	1000	ND	106	55-147	4.63	23	
Toluene	493.3	10.0	ug/L	505	ND	97.7	71-133	4.09	19	
trans-1,3-Dichloropropene	451.6	10.0	ug/L	501	ND	90.2	63-124	5.93	21	
1,1,2-Trichloroethane	480.8	10.0	ug/L	501	ND	96.0	69-133	4.97	19	
Tetrachloroethylene	433.8	10.0	ug/L	501	ND	86.6	70-124	11.5	24	
2-Hexanone (MBK)	1090	50.0	ug/L	1000	ND	109	53-141	5.72	24	
Dibromochloromethane	503.0	10.0	ug/L	501	ND	100	74-122	8.00	21	
1,2-Dibromoethane	497.4	10.0	ug/L	502	ND	99.0	66-127	7.34	23	
Chlorobenzene	446.0	10.0	ug/L	501	ND	89.1	76-116	8.13	21	
1,1,1,2-Tetrachloroethane	447.3	10.0	ug/L	503	ND	88.8	77-121	9.76	25	
Ethylbenzene	476.4	10.0	ug/L	502	ND	95.0	73-124	8.08	20	
Xylenes, total	1451	20.0	ug/L	1510	ND	96.1	75-123	6.60	20	
Styrene	504.2	10.0	ug/L	504	ND	100	70-120	7.52	23	
Bromoform	513.9	10.0	ug/L	501	ND	103	70-124	4.40	22	
1,2,3-Trichloropropane	451.0	10.0	ug/L	503	ND	89.6	62-135	7.33	28	
trans-1,4-Dichloro-2-butene	921.8	50.0	ug/L	1000	ND	92.2	50-120	2.40	26	

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1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0807 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IC0807-MSD2)	Source: 1IC0854-15			Prepared: 03/17/25 00:00 Analyzed: 03/18/25 06:26						
1,1,2,2-Tetrachloroethane	472.3	10.0	ug/L	501	ND	94.3	63-126	3.02	24	
1,4-Dichlorobenzene	449.6	10.0	ug/L	501	ND	89.7	72-119	2.16	24	
1,2-Dichlorobenzene	483.1	10.0	ug/L	501	ND	96.4	71-117	1.56	24	
1,2-Dibromo-3-chloropropane	572.5	50.0	ug/L	501	ND	114	49-134	3.30	28	
Surrogate: Dibromofluoromethane	530		ug/L	502		106	57-134			
Surrogate: Dibromofluoromethane	530		ug/L	502		106	75-136			
Surrogate: 1,2-Dichloroethane-d4	518		ug/L	501		103	53-140			
Surrogate: 1,2-Dichloroethane-d4	518		ug/L	501		103	61-142			
Surrogate: Toluene-d8	502		ug/L	504		99.6	86-114			
Surrogate: Toluene-d8	502		ug/L	504		99.6	82-121			
Surrogate: 4-Bromofluorobenzene	508		ug/L	501		101	78-121			
Surrogate: 4-Bromofluorobenzene	508		ug/L	501		101	80-116			
Batch 1IC0808 - EPA 5030B - EPA 8260D										
Blank (1IC0808-BLK1)	Prepared: 03/17/25 00:00 Analyzed: 03/17/25 12:48									
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							

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11C0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0808 - EPA 5030B - EPA 8260D										
Blank (11C0808-BLK1)										
Prepared: 03/17/25 00:00 Analyzed: 03/17/25 12:48										
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane										
	51.9		ug/L	50.2		104	57-134			
Surrogate: Dibromofluoromethane										
	51.9		ug/L	50.2		104	75-136			
Surrogate: 1,2-Dichloroethane-d4										
	51.8		ug/L	50.1		103	53-140			
Surrogate: 1,2-Dichloroethane-d4										
	51.8		ug/L	50.1		103	61-142			
Surrogate: Toluene-d8										
	46.5		ug/L	50.4		92.3	86-114			
Surrogate: Toluene-d8										
	46.5		ug/L	50.4		92.3	82-121			
Surrogate: 4-Bromofluorobenzene										
	49.1		ug/L	50.1		98.0	78-121			
Surrogate: 4-Bromofluorobenzene										
	49.1		ug/L	50.1		98.0	80-116			
LCS (11C0808-BS1)										
Prepared: 03/17/25 00:00 Analyzed: 03/17/25 11:41										
Chloromethane	26.46	1.0	ug/L	30.3		87.3	63-155			
Vinyl Chloride	31.56	1.0	ug/L	30.2		104	70-154			
Bromomethane	31.87	1.0	ug/L	30.1		106	52-176			
Chloroethane	33.36	1.0	ug/L	30.3		110	72-148			
Trichlorofluoromethane	37.00	1.0	ug/L	30.3		122	70-152			
1,1-Dichloroethylene	50.99	1.0	ug/L	50.1		102	70-148			
Acetone	107.4	10.0	ug/L	100		107	43-172			
Methyl Iodide	110.1	1.0	ug/L	100		110	69-170			
Carbon Disulfide	109.0	1.0	ug/L	100		109	72-162			
Methylene Chloride	50.45	5.0	ug/L	50.1		101	68-142			
Acrylonitrile	50.63	5.0	ug/L	50.2		101	56-135			
trans-1,2-Dichloroethylene	48.05	1.0	ug/L	50.1		95.9	66-148			
1,1-Dichloroethane	48.89	1.0	ug/L	50.1		97.6	66-143			
Vinyl Acetate	156.0	5.0	ug/L	140		111	43-153			
cis-1,2-Dichloroethylene	48.49	1.0	ug/L	50.4		96.3	71-149			

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0808 - EPA 5030B - EPA 8260D										
LCS (1IC0808-BS1)										
Prepared: 03/17/25 00:00 Analyzed: 03/17/25 11:41										
2-Butanone (MEK)	86.68	10.0	ug/L	100		86.7	52-159			
Bromochloromethane	48.66	1.0	ug/L	50.4		96.5	69-143			
Chloroform	48.27	1.0	ug/L	50.1		96.4	69-144			
1,1,1-Trichloroethane	47.43	1.0	ug/L	50.1		94.6	62-129			
Carbon Tetrachloride	46.59	1.0	ug/L	50.1		93.0	63-141			
Benzene	43.69	1.0	ug/L	50.4		86.6	71-134			
1,2-Dichloroethane	45.99	1.0	ug/L	50.1		91.8	72-132			
Trichloroethylene	44.74	1.0	ug/L	50.1		89.3	71-135			
1,2-Dichloropropane	44.43	1.0	ug/L	50.1		88.7	69-136			
Dibromomethane	44.33	1.0	ug/L	50.4		88.0	73-147			
Bromodichloromethane	46.77	1.0	ug/L	50.1		93.4	68-129			
cis-1,3-Dichloropropene	42.39	1.0	ug/L	50.1		84.6	65-134			
4-Methyl-2-pentanone (MIBK)	78.67	5.0	ug/L	100		78.7	58-147			
Toluene	43.35	1.0	ug/L	50.5		85.9	72-133			
trans-1,3-Dichloropropene	42.25	1.0	ug/L	50.1		84.4	67-130			
1,1,2-Trichloroethane	51.71	1.0	ug/L	50.1		103	69-135			
Tetrachloroethylene	43.43	1.0	ug/L	50.1		86.7	69-130			
2-Hexanone (MBK)	79.22	5.0	ug/L	100		79.2	55-144			
Dibromochloromethane	47.34	1.0	ug/L	50.1		94.5	73-127			
1,2-Dibromoethane	44.28	1.0	ug/L	50.2		88.2	67-132			
Chlorobenzene	42.17	1.0	ug/L	50.1		84.2	72-123			
1,1,1,2-Tetrachloroethane	44.44	1.0	ug/L	50.3		88.3	73-127			
Ethylbenzene	41.07	1.0	ug/L	50.2		81.9	71-127			
Xylenes, total	126.3	2.0	ug/L	151		83.6	74-127			
Styrene	44.87	1.0	ug/L	50.4		89.1	66-126			
Bromoform	44.24	1.0	ug/L	50.1		88.3	68-130			
1,2,3-Trichloropropane	41.56	1.0	ug/L	50.3		82.6	63-136			
trans-1,4-Dichloro-2-butene	74.20	5.0	ug/L	100		74.2	54-134			
1,1,2,2-Tetrachloroethane	38.42	1.0	ug/L	50.1		76.7	61-131			
1,4-Dichlorobenzene	39.37	1.0	ug/L	50.1		78.5	70-129			
1,2-Dichlorobenzene	38.40	1.0	ug/L	50.1		76.7	69-126			
1,2-Dibromo-3-chloropropane	28.55	5.0	ug/L	50.1		57.0	50-143			
Surrogate: Dibromofluoromethane	55.7		ug/L	50.2		111	57-134			
Surrogate: Dibromofluoromethane	55.7		ug/L	50.2		111	75-136			
Surrogate: 1,2-Dichloroethane-d4	55.5		ug/L	50.1		111	53-140			
Surrogate: 1,2-Dichloroethane-d4	55.5		ug/L	50.1		111	61-142			
Surrogate: Toluene-d8	48.8		ug/L	50.4		96.8	86-114			
Surrogate: Toluene-d8	48.8		ug/L	50.4		96.8	82-121			
Surrogate: 4-Bromofluorobenzene	50.9		ug/L	50.1		102	78-121			
Surrogate: 4-Bromofluorobenzene	50.9		ug/L	50.1		102	80-116			
LCS Dup (1IC0808-BSD1)										
Prepared: 03/17/25 00:00 Analyzed: 03/17/25 12:03										
Chloromethane	24.19	1.0	ug/L	30.3		79.8	63-155	8.96	24	
Vinyl Chloride	29.02	1.0	ug/L	30.2		95.9	70-154	8.39	25	

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0808 - EPA 5030B - EPA 8260D										
LCS Dup (1IC0808-BSD1)				Prepared: 03/17/25 00:00 Analyzed: 03/17/25 12:03						
Bromomethane	31.57	1.0	ug/L	30.1		105	52-176	0.946	27	
Chloroethane	30.90	1.0	ug/L	30.3		102	72-148	7.66	25	
Trichlorofluoromethane	33.19	1.0	ug/L	30.3		110	70-152	10.9	26	
1,1-Dichloroethylene	46.22	1.0	ug/L	50.1		92.2	70-148	9.81	24	
Acetone	121.0	10.0	ug/L	100		121	43-172	11.9	30	
Methyl Iodide	98.63	1.0	ug/L	100		98.6	69-170	11.0	30	
Carbon Disulfide	98.39	1.0	ug/L	100		98.4	72-162	10.3	24	
Methylene Chloride	50.24	5.0	ug/L	50.1		100	68-142	0.417	21	
Acrylonitrile	59.92	5.0	ug/L	50.2		119	56-135	16.8	16	R1
trans-1,2-Dichloroethylene	45.31	1.0	ug/L	50.1		90.5	66-148	5.87	27	
1,1-Dichloroethane	47.68	1.0	ug/L	50.1		95.2	66-143	2.51	24	
Vinyl Acetate	182.0	5.0	ug/L	140		130	43-153	15.4	30	
cis-1,2-Dichloroethylene	46.43	1.0	ug/L	50.4		92.2	71-149	4.34	26	
2-Butanone (MEK)	105.5	10.0	ug/L	100		105	52-159	19.6	27	
Bromochloromethane	51.54	1.0	ug/L	50.4		102	69-143	5.75	23	
Chloroform	48.22	1.0	ug/L	50.1		96.3	69-144	0.104	23	
1,1,1-Trichloroethane	45.07	1.0	ug/L	50.1		89.9	62-129	5.10	24	
Carbon Tetrachloride	44.79	1.0	ug/L	50.1		89.4	63-141	3.94	25	
Benzene	43.66	1.0	ug/L	50.4		86.6	71-134	0.0687	24	
1,2-Dichloroethane	51.71	1.0	ug/L	50.1		103	72-132	11.7	24	
Trichloroethylene	44.17	1.0	ug/L	50.1		88.2	71-135	1.28	24	
1,2-Dichloropropane	45.03	1.0	ug/L	50.1		89.9	69-136	1.34	24	
Dibromomethane	51.51	1.0	ug/L	50.4		102	73-147	15.0	25	
Bromodichloromethane	49.54	1.0	ug/L	50.1		98.9	68-129	5.75	22	
cis-1,3-Dichloropropene	45.48	1.0	ug/L	50.1		90.8	65-134	7.03	23	
4-Methyl-2-pentanone (MIBK)	105.9	5.0	ug/L	100		106	58-147	29.5	27	R1
Toluene	42.39	1.0	ug/L	50.5		84.0	72-133	2.24	24	
trans-1,3-Dichloropropene	48.57	1.0	ug/L	50.1		97.0	67-130	13.9	24	
1,1,2-Trichloroethane	56.24	1.0	ug/L	50.1		112	69-135	8.39	23	
Tetrachloroethylene	41.25	1.0	ug/L	50.1		82.3	69-130	5.15	25	
2-Hexanone (MBK)	89.49	5.0	ug/L	100		89.5	55-144	12.2	25	
Dibromochloromethane	49.46	1.0	ug/L	50.1		98.8	73-127	4.38	22	
1,2-Dibromoethane	51.31	1.0	ug/L	50.2		102	67-132	14.7	24	
Chlorobenzene	40.42	1.0	ug/L	50.1		80.7	72-123	4.24	23	
1,1,1,2-Tetrachloroethane	44.56	1.0	ug/L	50.3		88.5	73-127	0.270	24	
Ethylbenzene	39.05	1.0	ug/L	50.2		77.8	71-127	5.04	26	
Xylenes, total	121.1	2.0	ug/L	151		80.1	74-127	4.22	25	
Styrene	44.71	1.0	ug/L	50.4		88.8	66-126	0.357	23	
Bromoform	51.49	1.0	ug/L	50.1		103	68-130	15.1	23	
1,2,3-Trichloropropane	51.65	1.0	ug/L	50.3		103	63-136	21.7	24	
trans-1,4-Dichloro-2-butene	92.98	5.0	ug/L	100		93.0	54-134	22.5	27	
1,1,2,2-Tetrachloroethane	43.19	1.0	ug/L	50.1		86.2	61-131	11.7	29	
1,4-Dichlorobenzene	37.58	1.0	ug/L	50.1		75.0	70-129	4.65	24	

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0808 - EPA 5030B - EPA 8260D										
LCS Dup (1IC0808-BSD1)				Prepared: 03/17/25 00:00 Analyzed: 03/17/25 12:03						
1,2-Dichlorobenzene	40.13	1.0	ug/L	50.1		80.1	69-126	4.41	26	
1,2-Dibromo-3-chloropropane	39.77	5.0	ug/L	50.1		79.3	50-143	32.8	30	R1
Surrogate: Dibromofluoromethane	58.5		ug/L	50.2		117	57-134			
Surrogate: Dibromofluoromethane	58.5		ug/L	50.2		117	75-136			
Surrogate: 1,2-Dichloroethane-d4	62.6		ug/L	50.1		125	53-140			
Surrogate: 1,2-Dichloroethane-d4	62.6		ug/L	50.1		125	61-142			
Surrogate: Toluene-d8	50.5		ug/L	50.4		100	86-114			
Surrogate: Toluene-d8	50.5		ug/L	50.4		100	82-121			
Surrogate: 4-Bromofluorobenzene	51.6		ug/L	50.1		103	78-121			
Surrogate: 4-Bromofluorobenzene	51.6		ug/L	50.1		103	80-116			
Matrix Spike (1IC0808-MS1)				Source: 1IC0568-01RE1 Prepared: 03/17/25 00:00 Analyzed: 03/17/25 23:32						
Chloromethane	262.9	10.0	ug/L	303	ND	86.7	61-152			
Vinyl Chloride	299.9	10.0	ug/L	302	ND	99.1	66-149			
Bromomethane	320.5	10.0	ug/L	301	ND	106	43-171			
Chloroethane	327.9	10.0	ug/L	303	ND	108	69-148			
Trichlorofluoromethane	372.6	10.0	ug/L	303	ND	123	62-163			
1,1-Dichloroethylene	517.2	10.0	ug/L	501	ND	103	70-148			
Acetone	1379	100	ug/L	1000	ND	138	45-173			
Methyl Iodide	1063	10.0	ug/L	1000	ND	106	62-167			
Carbon Disulfide	1067	10.0	ug/L	1000	ND	107	71-163			
Methylene Chloride	536.4	50.0	ug/L	501	ND	107	69-140			
Acrylonitrile	612.6	50.0	ug/L	502	ND	122	38-147			
trans-1,2-Dichloroethylene	505.6	10.0	ug/L	501	ND	101	69-144			
1,1-Dichloroethane	535.7	10.0	ug/L	501	ND	107	70-138			
Vinyl Acetate	1894	50.0	ug/L	1400	ND	135	58-142			
cis-1,2-Dichloroethylene	523.6	10.0	ug/L	504	ND	104	68-151			
2-Butanone (MEK)	1122	100	ug/L	1000	ND	112	50-160			
Bromochloromethane	547.2	10.0	ug/L	504	ND	109	65-143			
Chloroform	535.2	10.0	ug/L	501	ND	107	71-143			
1,1,1-Trichloroethane	513.3	10.0	ug/L	501	ND	102	63-133			
Carbon Tetrachloride	521.1	10.0	ug/L	501	ND	104	63-142			
Benzene	488.9	10.0	ug/L	504	ND	96.9	69-133			
1,2-Dichloroethane	573.0	10.0	ug/L	501	ND	114	63-138			
Trichloroethylene	488.8	10.0	ug/L	501	ND	97.6	71-133			
1,2-Dichloropropane	503.0	10.0	ug/L	501	ND	100	69-132			
Dibromomethane	550.8	10.0	ug/L	504	ND	109	70-147			
Bromodichloromethane	557.2	10.0	ug/L	501	ND	111	67-130			
cis-1,3-Dichloropropene	444.6	10.0	ug/L	501	ND	88.8	61-126			
4-Methyl-2-pentanone (MIBK)	990.7	50.0	ug/L	1000	ND	99.1	55-147			
Toluene	485.4	10.0	ug/L	505	ND	96.2	71-133			
trans-1,3-Dichloropropene	493.8	10.0	ug/L	501	ND	98.6	63-124			
1,1,2-Trichloroethane	599.1	10.0	ug/L	501	ND	120	69-133			
Tetrachloroethylene	478.3	10.0	ug/L	501	ND	95.5	70-124			

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1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0808 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC0808-MS1) Source: 1IC0568-01RE1 Prepared: 03/17/25 00:00 Analyzed: 03/17/25 23:32										
2-Hexanone (MBK)	839.7	50.0	ug/L	1000	ND	84.0	53-141			
Dibromochloromethane	526.5	10.0	ug/L	501	ND	105	74-122			
1,2-Dibromoethane	524.9	10.0	ug/L	502	ND	105	66-127			
Chlorobenzene	456.8	10.0	ug/L	501	ND	91.2	76-116			
1,1,1,2-Tetrachloroethane	490.8	10.0	ug/L	503	ND	97.5	77-121			
Ethylbenzene	442.1	10.0	ug/L	502	ND	88.1	73-124			
Xylenes, total	1366	20.0	ug/L	1510	ND	90.4	75-123			
Styrene	491.2	10.0	ug/L	504	ND	97.5	70-120			
Bromoform	535.4	10.0	ug/L	501	ND	107	70-124			
1,2,3-Trichloropropane	549.7	10.0	ug/L	503	ND	109	62-135			
trans-1,4-Dichloro-2-butene	922.7	50.0	ug/L	1000	ND	92.3	50-120			
1,1,1,2-Tetrachloroethane	455.1	10.0	ug/L	501	ND	90.8	63-126			
1,4-Dichlorobenzene	405.7	10.0	ug/L	501	ND	80.9	72-119			
1,2-Dichlorobenzene	428.0	10.0	ug/L	501	ND	85.4	71-117			
1,2-Dibromo-3-chloropropane	399.4	50.0	ug/L	501	ND	79.7	49-134			
Surrogate: Dibromofluoromethane	606		ug/L	502		121	57-134			
Surrogate: Dibromofluoromethane	606		ug/L	502		121	75-136			
Surrogate: 1,2-Dichloroethane-d4	648		ug/L	501		129	53-140			
Surrogate: 1,2-Dichloroethane-d4	648		ug/L	501		129	61-142			
Surrogate: Toluene-d8	505		ug/L	504		100	86-114			
Surrogate: Toluene-d8	505		ug/L	504		100	82-121			
Surrogate: 4-Bromofluorobenzene	537		ug/L	501		107	78-121			
Surrogate: 4-Bromofluorobenzene	537		ug/L	501		107	80-116			
Matrix Spike Dup (1IC0808-MSD1) Source: 1IC0568-01RE1 Prepared: 03/17/25 00:00 Analyzed: 03/17/25 23:55										
Chloromethane	247.0	10.0	ug/L	303	ND	81.5	61-152	6.24	26	
Vinyl Chloride	297.2	10.0	ug/L	302	ND	98.3	66-149	0.904	23	
Bromomethane	316.9	10.0	ug/L	301	ND	105	43-171	1.13	29	
Chloroethane	312.0	10.0	ug/L	303	ND	103	69-148	4.97	25	
Trichlorofluoromethane	350.4	10.0	ug/L	303	ND	116	62-163	6.14	25	
1,1-Dichloroethylene	483.5	10.0	ug/L	501	ND	96.5	70-148	6.74	22	
Acetone	1418	100	ug/L	1000	ND	142	45-173	2.76	30	
Methyl Iodide	1050	10.0	ug/L	1000	ND	105	62-167	1.22	24	
Carbon Disulfide	1040	10.0	ug/L	1000	ND	104	71-163	2.55	22	
Methylene Chloride	530.3	50.0	ug/L	501	ND	106	69-140	1.14	19	
Acrylonitrile	634.7	50.0	ug/L	502	ND	126	38-147	3.54	30	
trans-1,2-Dichloroethylene	492.0	10.0	ug/L	501	ND	98.2	69-144	2.73	22	
1,1-Dichloroethane	511.7	10.0	ug/L	501	ND	102	70-138	4.58	20	
Vinyl Acetate	1924	50.0	ug/L	1400	ND	137	58-142	1.61	24	
cis-1,2-Dichloroethylene	502.1	10.0	ug/L	504	ND	99.7	68-151	4.19	22	
2-Butanone (MEK)	1093	100	ug/L	1000	ND	109	50-160	2.65	23	
Bromochloromethane	551.4	10.0	ug/L	504	ND	109	65-143	0.765	22	
Chloroform	527.2	10.0	ug/L	501	ND	105	71-143	1.51	21	
1,1,1-Trichloroethane	492.6	10.0	ug/L	501	ND	98.3	63-133	4.12	23	

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0808 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IC0808-MSD1) Source: 1IC0568-01RE1 Prepared: 03/17/25 00:00 Analyzed: 03/17/25 23:55										
Carbon Tetrachloride	494.4	10.0	ug/L	501	ND	98.7	63-142	5.26	22	
Benzene	474.5	10.0	ug/L	504	ND	94.1	69-133	2.99	18	
1,2-Dichloroethane	567.5	10.0	ug/L	501	ND	113	63-138	0.964	20	
Trichloroethylene	469.6	10.0	ug/L	501	ND	93.7	71-133	4.01	23	
1,2-Dichloropropane	483.9	10.0	ug/L	501	ND	96.6	69-132	3.87	20	
Dibromomethane	560.6	10.0	ug/L	504	ND	111	70-147	1.76	22	
Bromodichloromethane	543.6	10.0	ug/L	501	ND	109	67-130	2.47	21	
cis-1,3-Dichloropropene	444.1	10.0	ug/L	501	ND	88.7	61-126	0.113	21	
4-Methyl-2-pentanone (MIBK)	1073	50.0	ug/L	1000	ND	107	55-147	7.98	23	
Toluene	457.5	10.0	ug/L	505	ND	90.6	71-133	5.92	19	
trans-1,3-Dichloropropene	499.2	10.0	ug/L	501	ND	99.7	63-124	1.09	21	
1,1,2-Trichloroethane	605.5	10.0	ug/L	501	ND	121	69-133	1.06	19	
Tetrachloroethylene	456.8	10.0	ug/L	501	ND	91.2	70-124	4.60	24	
2-Hexanone (MBK)	905.0	50.0	ug/L	1000	ND	90.5	53-141	7.49	24	
Dibromochloromethane	539.2	10.0	ug/L	501	ND	108	74-122	2.38	21	
1,2-Dibromoethane	534.8	10.0	ug/L	502	ND	106	66-127	1.87	23	
Chlorobenzene	440.0	10.0	ug/L	501	ND	87.9	76-116	3.75	21	
1,1,1,2-Tetrachloroethane	480.8	10.0	ug/L	503	ND	95.5	77-121	2.06	25	
Ethylbenzene	419.3	10.0	ug/L	502	ND	83.6	73-124	5.29	20	
Xylenes, total	1317	20.0	ug/L	1510	ND	87.2	75-123	3.61	20	
Styrene	483.2	10.0	ug/L	504	ND	95.9	70-120	1.64	23	
Bromoform	550.4	10.0	ug/L	501	ND	110	70-124	2.76	22	
1,2,3-Trichloropropane	558.1	10.0	ug/L	503	ND	111	62-135	1.52	28	
trans-1,4-Dichloro-2-butene	956.0	50.0	ug/L	1000	ND	95.6	50-120	3.55	26	
1,1,2,2-Tetrachloroethane	465.6	10.0	ug/L	501	ND	92.9	63-126	2.28	24	
1,4-Dichlorobenzene	400.5	10.0	ug/L	501	ND	79.9	72-119	1.29	24	
1,2-Dichlorobenzene	423.9	10.0	ug/L	501	ND	84.6	71-117	0.963	24	
1,2-Dibromo-3-chloropropane	424.2	50.0	ug/L	501	ND	84.6	49-134	6.02	28	
Surrogate: Dibromofluoromethane	604		ug/L	502		120	57-134			
Surrogate: Dibromofluoromethane	604		ug/L	502		120	75-136			
Surrogate: 1,2-Dichloroethane-d4	661		ug/L	501		132	53-140			
Surrogate: 1,2-Dichloroethane-d4	661		ug/L	501		132	61-142			
Surrogate: Toluene-d8	500		ug/L	504		99.3	86-114			
Surrogate: Toluene-d8	500		ug/L	504		99.3	82-121			
Surrogate: 4-Bromofluorobenzene	531		ug/L	501		106	78-121			
Surrogate: 4-Bromofluorobenzene	531		ug/L	501		106	80-116			

Batch 1IC1114 - EPA 5030B - EPA 8260D

Blank (1IC1114-BLK1) Prepared: 03/20/25 00:00 Analyzed: 03/21/25 01:15										
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1114 - EPA 5030B - EPA 8260D										
Blank (1IC1114-BLK1)				Prepared: 03/20/25 00:00 Analyzed: 03/21/25 01:15						
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	1.03	1.0	ug/L							B1
Xylenes, total	5.89	2.0	ug/L							B1
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1114 - EPA 5030B - EPA 8260D										
Blank (1IC1114-BLK1)										
Prepared: 03/20/25 00:00 Analyzed: 03/21/25 01:15										
Surrogate: Dibromofluoromethane	39.4		ug/L	50.2		78.5	75-136			
Surrogate: 1,2-Dichloroethane-d4	37.8		ug/L	50.1		75.4	61-142			
Surrogate: Toluene-d8	52.6		ug/L	50.4		104	82-121			
Surrogate: 4-Bromofluorobenzene	51.4		ug/L	50.1		103	80-116			
LCS (1IC1114-BS1)										
Prepared: 03/20/25 00:00 Analyzed: 03/21/25 00:08										
Chloromethane	26.48	1.0	ug/L	30.3		87.3	63-155			
Vinyl Chloride	28.31	1.0	ug/L	30.2		93.6	70-154			
Bromomethane	26.25	1.0	ug/L	30.1		87.1	52-176			
Chloroethane	27.99	1.0	ug/L	30.3		92.3	72-148			
Trichlorofluoromethane	31.65	1.0	ug/L	30.3		104	70-152			
1,1-Dichloroethylene	54.63	1.0	ug/L	50.1		109	70-148			
Acetone	130.5	10.0	ug/L	100		131	43-172			
Methyl Iodide	93.28	1.0	ug/L	100		93.3	69-170			
Carbon Disulfide	92.92	1.0	ug/L	100		92.9	72-162			
Methylene Chloride	46.84	5.0	ug/L	50.1		93.5	68-142			
trans-1,2-Dichloroethylene	54.51	1.0	ug/L	50.1		109	66-148			
1,1-Dichloroethane	54.79	1.0	ug/L	50.1		109	66-143			
Vinyl Acetate	174.0	5.0	ug/L	140		124	43-153			
cis-1,2-Dichloroethylene	55.50	1.0	ug/L	50.4		110	71-149			
2-Butanone (MEK)	110.4	10.0	ug/L	100		110	52-159			
Bromochloromethane	55.06	1.0	ug/L	50.4		109	69-143			
Chloroform	55.37	1.0	ug/L	50.1		111	69-144			
1,1,1-Trichloroethane	54.48	1.0	ug/L	50.1		109	62-129			
Carbon Tetrachloride	52.67	1.0	ug/L	50.1		105	63-141			
Benzene	49.95	1.0	ug/L	50.4		99.0	71-134			
1,2-Dichloroethane	59.78	1.0	ug/L	50.1		119	72-132			
Trichloroethylene	51.70	1.0	ug/L	50.1		103	71-135			
1,2-Dichloropropane	54.72	1.0	ug/L	50.1		109	69-136			
Dibromomethane	59.10	1.0	ug/L	50.4		117	73-147			
Bromodichloromethane	57.78	1.0	ug/L	50.1		115	68-129			
cis-1,3-Dichloropropene	57.27	1.0	ug/L	50.1		114	65-134			
4-Methyl-2-pentanone (MIBK)	123.9	5.0	ug/L	100		124	58-147			
Toluene	52.89	1.0	ug/L	50.5		105	72-133			
trans-1,3-Dichloropropene	55.76	1.0	ug/L	50.1		111	67-130			
1,1,2-Trichloroethane	55.56	1.0	ug/L	50.1		111	69-135			
Tetrachloroethylene	48.19	1.0	ug/L	50.1		96.2	69-130			
2-Hexanone (MBK)	125.7	5.0	ug/L	100		126	55-144			
Dibromochloromethane	56.14	1.0	ug/L	50.1		112	73-127			
1,2-Dibromoethane	58.21	1.0	ug/L	50.2		116	67-132			
Chlorobenzene	49.80	1.0	ug/L	50.1		99.4	72-123			
1,1,1,2-Tetrachloroethane	51.70	1.0	ug/L	50.3		103	73-127			
Ethylbenzene	53.92	1.0	ug/L	50.2		107	71-127			

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1114 - EPA 5030B - EPA 8260D										
LCS (1IC1114-BS1) Prepared: 03/20/25 00:00 Analyzed: 03/21/25 00:08										
Xylenes, total	168.0	2.0	ug/L	151		111	74-127			
Styrene	54.47	1.0	ug/L	50.4		108	66-126			
Bromoform	58.05	1.0	ug/L	50.1		116	68-130			
1,2,3-Trichloropropane	52.07	1.0	ug/L	50.3		103	63-136			
trans-1,4-Dichloro-2-butene	106.7	5.0	ug/L	100		107	54-134			
1,1,2,2-Tetrachloroethane	52.49	1.0	ug/L	50.1		105	61-131			
1,4-Dichlorobenzene	48.14	1.0	ug/L	50.1		96.0	70-129			
1,2-Dichlorobenzene	52.02	1.0	ug/L	50.1		104	69-126			
1,2-Dibromo-3-chloropropane	63.34	5.0	ug/L	50.1		126	50-143			
Surrogate: Dibromofluoromethane	53.6		ug/L	50.2		107	75-136			
Surrogate: 1,2-Dichloroethane-d4	55.5		ug/L	50.1		111	61-142			
Surrogate: Toluene-d8	49.5		ug/L	50.4		98.2	82-121			
Surrogate: 4-Bromofluorobenzene	51.7		ug/L	50.1		103	80-116			
LCS Dup (1IC1114-BS1) Prepared: 03/20/25 00:00 Analyzed: 03/21/25 00:30										
Chloromethane	23.44	1.0	ug/L	30.3		77.3	63-155	12.2	24	
Vinyl Chloride	25.44	1.0	ug/L	30.2		84.1	70-154	10.7	25	
Bromomethane	25.20	1.0	ug/L	30.1		83.7	52-176	4.08	27	
Chloroethane	25.77	1.0	ug/L	30.3		85.0	72-148	8.26	25	
Trichlorofluoromethane	29.00	1.0	ug/L	30.3		95.7	70-152	8.74	26	
1,1-Dichloroethylene	51.05	1.0	ug/L	50.1		102	70-148	6.78	24	
Acetone	131.0	10.0	ug/L	100		131	43-172	0.382	30	
Methyl Iodide	85.49	1.0	ug/L	100		85.5	69-170	8.72	30	
Carbon Disulfide	86.03	1.0	ug/L	100		86.0	72-162	7.70	24	
Methylene Chloride	44.21	5.0	ug/L	50.1		88.2	68-142	5.78	21	
trans-1,2-Dichloroethylene	51.98	1.0	ug/L	50.1		104	66-148	4.75	27	
1,1-Dichloroethane	52.46	1.0	ug/L	50.1		105	66-143	4.34	24	
Vinyl Acetate	167.6	5.0	ug/L	140		120	43-153	3.74	30	
cis-1,2-Dichloroethylene	54.24	1.0	ug/L	50.4		108	71-149	2.30	26	
2-Butanone (MEK)	113.2	10.0	ug/L	100		113	52-159	2.51	27	
Bromochloromethane	53.02	1.0	ug/L	50.4		105	69-143	3.77	23	
Chloroform	53.03	1.0	ug/L	50.1		106	69-144	4.32	23	
1,1,1-Trichloroethane	50.60	1.0	ug/L	50.1		101	62-129	7.38	24	
Carbon Tetrachloride	49.07	1.0	ug/L	50.1		98.0	63-141	7.08	25	
Benzene	45.04	1.0	ug/L	50.4		89.3	71-134	10.3	24	
1,2-Dichloroethane	55.99	1.0	ug/L	50.1		112	72-132	6.55	24	
Trichloroethylene	47.11	1.0	ug/L	50.1		94.0	71-135	9.29	24	
1,2-Dichloropropane	50.04	1.0	ug/L	50.1		99.9	69-136	8.93	24	
Dibromomethane	55.65	1.0	ug/L	50.4		110	73-147	6.01	25	
Bromodichloromethane	54.13	1.0	ug/L	50.1		108	68-129	6.52	22	
cis-1,3-Dichloropropene	52.51	1.0	ug/L	50.1		105	65-134	8.67	23	
4-Methyl-2-pentanone (MIBK)	116.0	5.0	ug/L	100		116	58-147	6.57	27	
Toluene	47.18	1.0	ug/L	50.5		93.5	72-133	11.4	24	

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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1114 - EPA 5030B - EPA 8260D										
LCS Dup (1IC1114-BSD1)										
Prepared: 03/20/25 00:00 Analyzed: 03/21/25 00:30										
trans-1,3-Dichloropropene	51.78	1.0	ug/L	50.1		103	67-130	7.40	24	
1,1,2-Trichloroethane	50.54	1.0	ug/L	50.1		101	69-135	9.46	23	
Tetrachloroethylene	43.94	1.0	ug/L	50.1		87.7	69-130	9.23	25	
2-Hexanone (MBK)	120.5	5.0	ug/L	100		120	55-144	4.28	25	
Dibromochloromethane	55.80	1.0	ug/L	50.1		111	73-127	0.607	22	
1,2-Dibromoethane	56.28	1.0	ug/L	50.2		112	67-132	3.37	24	
Chlorobenzene	46.49	1.0	ug/L	50.1		92.8	72-123	6.88	23	
1,1,1,2-Tetrachloroethane	50.03	1.0	ug/L	50.3		99.4	73-127	3.28	24	
Ethylbenzene	49.32	1.0	ug/L	50.2		98.3	71-127	8.91	26	
Xylenes, total	154.8	2.0	ug/L	151		102	74-127	8.14	25	
Styrene	50.91	1.0	ug/L	50.4		101	66-126	6.76	23	
Bromoform	53.73	1.0	ug/L	50.1		107	68-130	7.73	23	
1,2,3-Trichloropropane	52.66	1.0	ug/L	50.3		105	63-136	1.13	24	
trans-1,4-Dichloro-2-butene	102.1	5.0	ug/L	100		102	54-134	4.35	27	
1,1,2,2-Tetrachloroethane	51.30	1.0	ug/L	50.1		102	61-131	2.29	29	
1,4-Dichlorobenzene	46.48	1.0	ug/L	50.1		92.7	70-129	3.51	24	
1,2-Dichlorobenzene	49.48	1.0	ug/L	50.1		98.8	69-126	5.00	26	
1,2-Dibromo-3-chloropropane	58.43	5.0	ug/L	50.1		117	50-143	8.06	30	
Surrogate: Dibromofluoromethane	56.0		ug/L	50.2		112	75-136			
Surrogate: 1,2-Dichloroethane-d4	59.0		ug/L	50.1		118	61-142			
Surrogate: Toluene-d8	48.0		ug/L	50.4		95.2	82-121			
Surrogate: 4-Bromofluorobenzene	53.1		ug/L	50.1		106	80-116			
Matrix Spike (1IC1114-MS1)										
Source: 1IC1317-01										
Prepared: 03/20/25 00:00 Analyzed: 03/21/25 07:35										
Chloromethane	273.7	10.0	ug/L	303	ND	90.3	61-152			
Vinyl Chloride	287.1	10.0	ug/L	302	ND	94.9	66-149			
Bromomethane	259.3	10.0	ug/L	301	ND	86.1	43-171			
Chloroethane	282.6	10.0	ug/L	303	ND	93.2	69-148			
Trichlorofluoromethane	281.0	10.0	ug/L	303	ND	92.7	62-163			
1,1-Dichloroethylene	473.2	10.0	ug/L	501	ND	94.4	70-148			
Acetone	1002	100	ug/L	1000	ND	100	45-173			
Methyl Iodide	863.5	10.0	ug/L	1000	ND	86.4	62-167			
Carbon Disulfide	883.8	10.0	ug/L	1000	ND	88.4	71-163			
Methylene Chloride	428.6	50.0	ug/L	501	ND	85.5	69-140			
trans-1,2-Dichloroethylene	464.2	10.0	ug/L	501	ND	92.7	69-144			
1,1-Dichloroethane	459.6	10.0	ug/L	501	ND	91.7	70-138			
Vinyl Acetate	1395	50.0	ug/L	1400	ND	99.7	58-142			
cis-1,2-Dichloroethylene	452.0	10.0	ug/L	504	ND	89.8	68-151			
2-Butanone (MEK)	823.4	100	ug/L	1000	ND	82.3	50-160			
Bromochloromethane	466.1	10.0	ug/L	504	ND	92.5	65-143			
Chloroform	451.9	10.0	ug/L	501	ND	90.2	71-143			
1,1,1-Trichloroethane	472.1	10.0	ug/L	501	ND	94.2	63-133			
Carbon Tetrachloride	461.4	10.0	ug/L	501	ND	92.1	63-142			

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1114 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC1114-MS1)	Source: 1IC1317-01			Prepared: 03/20/25 00:00 Analyzed: 03/21/25 07:35						
Benzene	457.5	10.0	ug/L	504	ND	90.7	69-133			
1,2-Dichloroethane	477.6	10.0	ug/L	501	ND	95.4	63-138			
Trichloroethylene	460.8	10.0	ug/L	501	ND	92.0	71-133			
1,2-Dichloropropane	459.7	10.0	ug/L	501	ND	91.8	69-132			
Dibromomethane	474.7	10.0	ug/L	504	ND	94.2	70-147			
Bromodichloromethane	475.1	10.0	ug/L	501	ND	94.9	67-130			
cis-1,3-Dichloropropene	454.2	10.0	ug/L	501	ND	90.7	61-126			
4-Methyl-2-pentanone (MIBK)	1029	50.0	ug/L	1000	ND	103	55-147			
Toluene	506.9	10.0	ug/L	505	ND	100	71-133			
trans-1,3-Dichloropropene	430.0	10.0	ug/L	501	ND	85.9	63-124			
1,1,2-Trichloroethane	451.6	10.0	ug/L	501	ND	90.2	69-133			
Tetrachloroethylene	459.9	10.0	ug/L	501	ND	91.8	70-124			
2-Hexanone (MBK)	1060	50.0	ug/L	1000	ND	106	53-141			
Dibromochloromethane	483.9	10.0	ug/L	501	ND	96.6	74-122			
1,2-Dibromoethane	479.5	10.0	ug/L	502	ND	95.5	66-127			
Chlorobenzene	459.8	10.0	ug/L	501	ND	91.8	76-116			
1,1,1,2-Tetrachloroethane	442.3	10.0	ug/L	503	ND	87.9	77-121			
Ethylbenzene	503.1	10.0	ug/L	502	ND	100	73-124			
Xylenes, total	1535	20.0	ug/L	1510	ND	102	75-123			
Styrene	518.8	10.0	ug/L	504	ND	103	70-120			
Bromoform	478.6	10.0	ug/L	501	ND	95.5	70-124			
1,2,3-Trichloropropane	456.8	10.0	ug/L	503	ND	90.7	62-135			
trans-1,4-Dichloro-2-butene	858.7	50.0	ug/L	1000	ND	85.9	50-120			
1,1,2,2-Tetrachloroethane	450.9	10.0	ug/L	501	ND	90.0	63-126			
1,4-Dichlorobenzene	446.6	10.0	ug/L	501	ND	89.1	72-119			
1,2-Dichlorobenzene	475.3	10.0	ug/L	501	ND	94.9	71-117			
1,2-Dibromo-3-chloropropane	486.8	50.0	ug/L	501	ND	97.1	49-134			
Surrogate: Dibromofluoromethane	464		ug/L	502		92.5	75-136			
Surrogate: 1,2-Dichloroethane-d4	473		ug/L	501		94.4	61-142			
Surrogate: Toluene-d8	509		ug/L	504		101	82-121			
Surrogate: 4-Bromofluorobenzene	516		ug/L	501		103	80-116			
Matrix Spike Dup (1IC1114-MSD1)	Source: 1IC1317-01			Prepared: 03/20/25 00:00 Analyzed: 03/21/25 07:57						
Chloromethane	275.7	10.0	ug/L	303	ND	90.9	61-152	0.728	26	
Vinyl Chloride	286.0	10.0	ug/L	302	ND	94.5	66-149	0.384	23	
Bromomethane	267.9	10.0	ug/L	301	ND	88.9	43-171	3.26	29	
Chloroethane	284.7	10.0	ug/L	303	ND	93.9	69-148	0.740	25	
Trichlorofluoromethane	288.3	10.0	ug/L	303	ND	95.1	62-163	2.56	25	
1,1-Dichloroethylene	487.6	10.0	ug/L	501	ND	97.3	70-148	3.00	22	
Acetone	1062	100	ug/L	1000	ND	106	45-173	5.81	30	
Methyl Iodide	884.4	10.0	ug/L	1000	ND	88.4	62-167	2.39	24	
Carbon Disulfide	914.7	10.0	ug/L	1000	ND	91.5	71-163	3.44	22	
Methylene Chloride	435.2	50.0	ug/L	501	ND	86.9	69-140	1.53	19	

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1114 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IC1114-MSD1)	Source: 1IC1317-01			Prepared: 03/20/25 00:00 Analyzed: 03/21/25 07:57						
trans-1,2-Dichloroethylene	481.5	10.0	ug/L	501	ND	96.1	69-144	3.66	22	
1,1-Dichloroethane	486.9	10.0	ug/L	501	ND	97.2	70-138	5.77	20	
Vinyl Acetate	1498	50.0	ug/L	1400	ND	107	58-142	7.13	24	
cis-1,2-Dichloroethylene	474.4	10.0	ug/L	504	ND	94.2	68-151	4.84	22	
2-Butanone (MEK)	952.9	100	ug/L	1000	ND	95.3	50-160	14.6	23	
Bromochloromethane	493.5	10.0	ug/L	504	ND	97.9	65-143	5.71	22	
Chloroform	473.3	10.0	ug/L	501	ND	94.5	71-143	4.63	21	
1,1,1-Trichloroethane	488.5	10.0	ug/L	501	ND	97.5	63-133	3.41	23	
Carbon Tetrachloride	471.4	10.0	ug/L	501	ND	94.1	63-142	2.14	22	
Benzene	470.9	10.0	ug/L	504	ND	93.4	69-133	2.89	18	
1,2-Dichloroethane	508.0	10.0	ug/L	501	ND	101	63-138	6.17	20	
Trichloroethylene	472.2	10.0	ug/L	501	ND	94.3	71-133	2.44	23	
1,2-Dichloropropane	489.7	10.0	ug/L	501	ND	97.8	69-132	6.32	20	
Dibromomethane	517.0	10.0	ug/L	504	ND	103	70-147	8.53	22	
Bromodichloromethane	514.5	10.0	ug/L	501	ND	103	67-130	7.96	21	
cis-1,3-Dichloropropene	478.7	10.0	ug/L	501	ND	95.6	61-126	5.25	21	
4-Methyl-2-pentanone (MIBK)	1076	50.0	ug/L	1000	ND	108	55-147	4.39	23	
Toluene	520.0	10.0	ug/L	505	ND	103	71-133	2.55	19	
trans-1,3-Dichloropropene	474.2	10.0	ug/L	501	ND	94.7	63-124	9.78	21	
1,1,2-Trichloroethane	486.9	10.0	ug/L	501	ND	97.2	69-133	7.52	19	
Tetrachloroethylene	462.1	10.0	ug/L	501	ND	92.2	70-124	0.477	24	
2-Hexanone (MBK)	1113	50.0	ug/L	1000	ND	111	53-141	4.85	24	
Dibromochloromethane	497.6	10.0	ug/L	501	ND	99.4	74-122	2.79	21	
1,2-Dibromoethane	506.0	10.0	ug/L	502	ND	101	66-127	5.38	23	
Chlorobenzene	474.4	10.0	ug/L	501	ND	94.7	76-116	3.13	21	
1,1,1,2-Tetrachloroethane	468.2	10.0	ug/L	503	ND	93.0	77-121	5.69	25	
Ethylbenzene	512.0	10.0	ug/L	502	ND	102	73-124	1.75	20	
Xylenes, total	1560	20.0	ug/L	1510	ND	103	75-123	1.61	20	
Styrene	527.2	10.0	ug/L	504	ND	105	70-120	1.61	23	
Bromoform	507.0	10.0	ug/L	501	ND	101	70-124	5.76	22	
1,2,3-Trichloropropane	476.4	10.0	ug/L	503	ND	94.6	62-135	4.20	28	
trans-1,4-Dichloro-2-butene	941.6	50.0	ug/L	1000	ND	94.2	50-120	9.21	26	
1,1,2,2-Tetrachloroethane	488.5	10.0	ug/L	501	ND	97.5	63-126	8.01	24	
1,4-Dichlorobenzene	468.1	10.0	ug/L	501	ND	93.4	72-119	4.70	24	
1,2-Dichlorobenzene	503.1	10.0	ug/L	501	ND	100	71-117	5.68	24	
1,2-Dibromo-3-chloropropane	544.9	50.0	ug/L	501	ND	109	49-134	11.3	28	
Surrogate: Dibromofluoromethane	467		ug/L	502		93.1	75-136			
Surrogate: 1,2-Dichloroethane-d4	474		ug/L	501		94.6	61-142			
Surrogate: Toluene-d8	500		ug/L	504		99.3	82-121			
Surrogate: 4-Bromofluorobenzene	508		ug/L	501		101	80-116			

Batch 1IC1150 - EPA 5030B - EPA 8260D



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CERTIFICATE OF ANALYSIS

1IC0854

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1150 - EPA 5030B - EPA 8260D										
Blank (1IC1150-BLK1)				Prepared: 03/21/25 00:00 Analyzed: 03/21/25 12:36						
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
1,2,4-Trichlorobenzene	1.54	1.0	ug/L							B1
Surrogate: Dibromofluoromethane	38.8		ug/L	50.2		77.4	57-134			
Surrogate: 1,2-Dichloroethane-d4	36.7		ug/L	50.1		73.3	53-140			
Surrogate: Toluene-d8	52.5		ug/L	50.4		104	86-114			
Surrogate: 4-Bromofluorobenzene	50.3		ug/L	50.1		100	78-121			
LCS (1IC1150-BS1)				Prepared: 03/21/25 00:00 Analyzed: 03/21/25 11:51						
4-Methyl-2-pentanone (MIBK)	113.9	5.0	ug/L	100		114	74-138			
2-Hexanone (MBK)	119.0	5.0	ug/L	100		119	76-139			
1,2,4-Trichlorobenzene	53.87	1.0	ug/L	50.4		107	66-134			
Surrogate: Dibromofluoromethane	47.6		ug/L	50.2		94.8	57-134			
Surrogate: 1,2-Dichloroethane-d4	49.7		ug/L	50.1		99.3	53-140			
Surrogate: Toluene-d8	50.1		ug/L	50.4		99.5	86-114			
Surrogate: 4-Bromofluorobenzene	51.4		ug/L	50.1		103	78-121			
Matrix Spike (1IC1150-MS1)				Source: 1IC1317-07		Prepared: 03/21/25 00:00 Analyzed: 03/21/25 22:35				
4-Methyl-2-pentanone (MIBK)	1140	50.0	ug/L	1000	ND	114	57-153			
2-Hexanone (MBK)	1161	50.0	ug/L	1000	ND	116	63-152			
1,2,4-Trichlorobenzene	566.7	10.0	ug/L	504	ND	112	65-132			
Surrogate: Dibromofluoromethane	522		ug/L	502		104	57-134			
Surrogate: 1,2-Dichloroethane-d4	540		ug/L	501		108	53-140			
Surrogate: Toluene-d8	500		ug/L	504		99.2	86-114			
Surrogate: 4-Bromofluorobenzene	513		ug/L	501		102	78-121			
Matrix Spike Dup (1IC1150-MSD1)				Source: 1IC1317-07		Prepared: 03/21/25 00:00 Analyzed: 03/21/25 22:57				
4-Methyl-2-pentanone (MIBK)	1236	50.0	ug/L	1000	ND	124	57-153	8.06	11	
2-Hexanone (MBK)	1263	50.0	ug/L	1000	ND	126	63-152	8.46	19	
1,2,4-Trichlorobenzene	647.9	10.0	ug/L	504	ND	129	65-132	13.4	15	
Surrogate: Dibromofluoromethane	522		ug/L	502		104	57-134			
Surrogate: 1,2-Dichloroethane-d4	532		ug/L	501		106	53-140			
Surrogate: Toluene-d8	502		ug/L	504		99.6	86-114			
Surrogate: 4-Bromofluorobenzene	514		ug/L	501		102	78-121			
Batch 1IC1200 - EPA 5030B - EPA 8260D										
Blank (1IC1200-BLK1)				Prepared: 03/24/25 00:00 Analyzed: 03/24/25 15:06						
Allyl chloride	<1.0	1.0	ug/L							
Chloroprene	<1.0	1.0	ug/L							
Methacrylonitrile	<1.0	1.0	ug/L							
Methyl Methacrylate	<1.0	1.0	ug/L							
Propionitrile	<10.0	10.0	ug/L							
Surrogate: Dibromofluoromethane	54.6		ug/L	50.2		109	57-134			

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1200 - EPA 5030B - EPA 8260D										
Blank (1IC1200-BLK1)				Prepared: 03/24/25 00:00 Analyzed: 03/24/25 15:06						
Surrogate: 1,2-Dichloroethane-d4	50.9		ug/L	50.1		102	53-140			
Surrogate: Toluene-d8	50.0		ug/L	50.4		99.3	86-114			
Surrogate: 4-Bromofluorobenzene	47.5		ug/L	50.1		94.8	78-121			
LCS (1IC1200-BS1)				Prepared: 03/24/25 00:00 Analyzed: 03/24/25 13:45						
Allyl chloride	58.92	1.0	ug/L	50.0		118	40-154			
Chloroprene	57.29	1.0	ug/L	50.0		115	57-134			
Methacrylonitrile	52.85	1.0	ug/L	50.0		106	59-124			
Methyl Methacrylate	49.26	1.0	ug/L	50.0		98.5	64-130			
Propionitrile	57.84	10.0	ug/L	50.0		116	32-180			
Surrogate: Dibromofluoromethane	52.9		ug/L	50.2		105	57-134			
Surrogate: 1,2-Dichloroethane-d4	50.7		ug/L	50.1		101	53-140			
Surrogate: Toluene-d8	49.3		ug/L	50.4		97.8	86-114			
Surrogate: 4-Bromofluorobenzene	49.3		ug/L	50.1		98.3	78-121			
LCS Dup (1IC1200-BSD1)				Prepared: 03/24/25 00:00 Analyzed: 03/24/25 14:08						
Allyl chloride	57.53	1.0	ug/L	50.0		115	40-154	2.39	16	
Chloroprene	54.49	1.0	ug/L	50.0		109	57-134	5.01	15	
Methacrylonitrile	48.49	1.0	ug/L	50.0		97.0	59-124	8.60	17	
Methyl Methacrylate	46.60	1.0	ug/L	50.0		93.2	64-130	5.55	17	
Propionitrile	52.83	10.0	ug/L	50.0		106	32-180	9.05	21	
Surrogate: Dibromofluoromethane	52.5		ug/L	50.2		105	57-134			
Surrogate: 1,2-Dichloroethane-d4	48.9		ug/L	50.1		97.6	53-140			
Surrogate: Toluene-d8	49.4		ug/L	50.4		98.1	86-114			
Surrogate: 4-Bromofluorobenzene	48.6		ug/L	50.1		97.0	78-121			
Matrix Spike (1IC1200-MS1)				Source: 1IC0851-21	Prepared: 03/24/25 00:00 Analyzed: 03/25/25 09:18					
Allyl chloride	513.7	10.0	ug/L	500	ND	103	60-140			
Chloroprene	448.8	10.0	ug/L	500	ND	89.8	62-121			
Methacrylonitrile	534.2	10.0	ug/L	500	ND	107	60-140			
Methyl Methacrylate	491.7	10.0	ug/L	500	ND	98.3	60-140			
Propionitrile	552.8	100	ug/L	500	ND	111	60-140			
Surrogate: Dibromofluoromethane	521		ug/L	502		104	57-134			
Surrogate: 1,2-Dichloroethane-d4	510		ug/L	501		102	53-140			
Surrogate: Toluene-d8	495		ug/L	504		98.3	86-114			
Surrogate: 4-Bromofluorobenzene	492		ug/L	501		98.2	78-121			
Matrix Spike Dup (1IC1200-MSD1)				Source: 1IC0851-21	Prepared: 03/24/25 00:00 Analyzed: 03/25/25 10:47					
Allyl chloride	551.3	10.0	ug/L	500	ND	110	60-140	7.06	30	
Chloroprene	521.9	10.0	ug/L	500	ND	104	62-121	15.1	30	
Methacrylonitrile	469.7	10.0	ug/L	500	ND	93.9	60-140	12.8	30	
Methyl Methacrylate	496.6	10.0	ug/L	500	ND	99.3	60-140	0.992	30	
Propionitrile	520.9	100	ug/L	500	ND	104	60-140	5.94	30	
Surrogate: Dibromofluoromethane	536		ug/L	502		107	57-134			

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C1200 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (11C1200-MSD1)	Source: 11C0851-21		Prepared: 03/24/25 00:00 Analyzed: 03/25/25 10:47							
Surrogate: 1,2-Dichloroethane-d4	508		ug/L	501		102	53-140			
Surrogate: Toluene-d8	500		ug/L	504		99.3	86-114			
Surrogate: 4-Bromofluorobenzene	508		ug/L	501		101	78-121			
Determination of General Solvents	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C1088 - Semi-Vol GC - EPA 8015C										
Blank (11C1088-BLK1)	Prepared: 03/21/25 11:47 Analyzed: 03/22/25 23:21									
Isobutanol	<1.0	1.0	mg/L							
Blank (11C1088-BLK2)	Prepared: 03/21/25 11:47 Analyzed: 03/23/25 11:24									
Isobutanol	<1.0	1.0	mg/L							
LCS (11C1088-BS1)	Prepared: 03/21/25 11:47 Analyzed: 03/22/25 19:32									
Isobutanol	24.07	1.0	mg/L	24.0		100	77-128			
Matrix Spike (11C1088-MS1)	Source: 11C0851-01		Prepared: 03/21/25 11:47 Analyzed: 03/23/25 06:20							
Isobutanol	25.21	1.0	mg/L	24.0	ND	105	63-135			
Matrix Spike Dup (11C1088-MSD1)	Source: 11C0851-01		Prepared: 03/21/25 11:47 Analyzed: 03/23/25 06:58							
Isobutanol	25.27	1.0	mg/L	24.0	ND	105	63-135	0.238	30	
Determination of Base/Neutral Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0804 - EPA 625 BNA - EPA 8270C										
Blank (11C0804-BLK1)	Prepared: 03/17/25 15:38 Analyzed: 03/20/25 16:26									
Bis(2-Ethylhexyl) Phthalate	<6	6	ug/L							
Surrogate: Nitrobenzene-d5	14.7		ug/L	20.6		71.6	20-149			
Surrogate: 2-Fluorobiphenyl	15.1		ug/L	19.5		77.4	11-146			
Surrogate: Terphenyl-d14	19.0		ug/L	20.6		92.4	27-155			
LCS (11C0804-BS1)	Prepared: 03/17/25 15:38 Analyzed: 03/20/25 16:50									
Bis(2-Ethylhexyl) Phthalate	8.6	6	ug/L	10.0		86.1	27-186			
Surrogate: Nitrobenzene-d5	15.8		ug/L	20.6		76.7	31-137			
Surrogate: 2-Fluorobiphenyl	15.4		ug/L	19.5		78.9	29-131			
Surrogate: Terphenyl-d14	18.8		ug/L	20.6		91.1	30-142			
LCS Dup (11C0804-BSD1)	Prepared: 03/17/25 15:38 Analyzed: 03/20/25 17:14									
Bis(2-Ethylhexyl) Phthalate	10.1	6	ug/L	10.0		101	27-186	15.5	30	
Surrogate: Nitrobenzene-d5	15.7		ug/L	20.6		76.4	31-137			
Surrogate: 2-Fluorobiphenyl	16.4		ug/L	19.5		83.9	29-131			
Surrogate: Terphenyl-d14	19.2		ug/L	20.6		93.0	30-142			

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Determination of Base/Neutral Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch 11C0791 - 3520C BNA Cont Liq - EPA 8270C

Blank (11C0791-BLK1)

Prepared: 03/17/25 14:17 Analyzed: 03/24/25 16:38

N-Nitrosodimethylamine	<8	8	ug/L
Methyl Methanesulfonate	<8	8	ug/L
N-Nitrosodiethylamine	<8	8	ug/L
N-Nitrosomethylethylamine	<8	8	ug/L
Ethyl Methanesulfonate	<8	8	ug/L
Phenol	<8	8	ug/L
Bis(2-Chloroethyl) Ether	<8	8	ug/L
2-Chlorophenol	<8	8	ug/L
Benzyl Alcohol	<8	8	ug/L
2-Methylphenol (o-Cresol)	<8	8	ug/L
Bis[2-Chloroisopropyl]ether	<8	8	ug/L
n-Nitroso-di-n-propylamine	<8	8	ug/L
N-Nitrosopyrrolidine	<8	8	ug/L
Acetophenone	<8	8	ug/L
o-Toluidine	<8	8	ug/L
(3 & 4)-Methylphenol	<8	8	ug/L
Hexachloroethane	<8	8	ug/L
Nitrobenzene	<8	8	ug/L
N-Nitrosopiperidine	<8	8	ug/L
Isophorone	<8	8	ug/L
2-Nitrophenol	<8	8	ug/L
2,4-Dimethylphenol	<8	8	ug/L
Bis (2-Chloroethoxy) Methane	<8	8	ug/L
2,4-Dichlorophenol	<8	8	ug/L
Naphthalene	<8	8	ug/L
4-Chloroaniline	<8	8	ug/L
2,6-Dichlorophenol	<8	8	ug/L
Hexachloropropene	<8	8	ug/L
Hexachlorobutadiene	<8	8	ug/L
N-Nitrosodi-n-butylamine	<8	8	ug/L
1,4-Phenylenediamine	<8	8	ug/L
4-Chloro-3-methylphenol	<8	8	ug/L
2-Methylnaphthalene	<8	8	ug/L
Isosafrole	<8	8	ug/L
1,2,4,5-Tetrachlorobenzene	<8	8	ug/L
Hexachlorocyclopentadiene	<8	8	ug/L
2,4,6-Trichlorophenol	<8	8	ug/L

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Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0791 - 3520C BNA Cont Liq - EPA 8270C									
Blank (11C0791-BLK1)				Prepared: 03/17/25 14:17 Analyzed: 03/24/25 16:38					
2,4,5-Trichlorophenol	<8	8	ug/L						
Safrole	<8	8	ug/L						
2-Chloronaphthalene	<8	8	ug/L						
2-Nitroaniline	<8	8	ug/L						
1,4-Naphthoquinone	<8	8	ug/L						
Dimethylphthalate	<8	8	ug/L						
1,3-Dinitrobenzene	<8	8	ug/L						
1,2-Dinitrobenzene	<8	8	ug/L						
2,6-Dinitrotoluene	<8	8	ug/L						
Acenaphthylene	<8	8	ug/L						
3-Nitroaniline	<8	8	ug/L						
Acenaphthene	<8	8	ug/L						
2,4-Dinitrophenol	<8	8	ug/L						
4-Nitrophenol	<8	8	ug/L						
Dibenzofuran	<8	8	ug/L						
2,4-Dinitrotoluene	<8	8	ug/L						
2,3,4,6-Tetrachlorophenol	<8	8	ug/L						
Pentachlorobenzene	<8	8	ug/L						
1-Naphthylamine	<8	8	ug/L						
2-Naphthylamine	<8	8	ug/L						
Diethyl Phthalate	<8	8	ug/L						
Fluorene	<8	8	ug/L						
4-Chlorophenyl Phenyl Ether	<8	8	ug/L						
4-Nitroaniline	<8	8	ug/L						
5-Nitro-o-toluidine	<8	8	ug/L						
4,6-Dinitro-2-methylphenol	<8	8	ug/L						
N-Nitrosodiphenylamine	<8	8	ug/L						
Diphenylamine	<8	8	ug/L						
Azobenzene	<8	8	ug/L						
Diallate	<8	8	ug/L						
1,3,5-Trinitrobenzene	<8	8	ug/L						
Phenacetin	<8	8	ug/L						
4-Bromophenyl Phenyl Ether	<8	8	ug/L						
4-Aminobiphenyl	<8	8	ug/L						
Pentachlorophenol	<8	8	ug/L						
Pronamide	<8	8	ug/L						
Pentachloronitrobenzene (PCNB)	<8	8	ug/L						
Phenanthrene	<8	8	ug/L						
Anthracene	<8	8	ug/L						
Di-n-butyl Phthalate	<8	8	ug/L						
Methapyrilene	<8	8	ug/L						
Fluoranthene	<8	8	ug/L						

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Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0791 - 3520C BNA Cont Liq - EPA 8270C									
Blank (11C0791-BLK1)									
				Prepared: 03/17/25 14:17 Analyzed: 03/24/25 16:38					
Isodrin	<8	8	ug/L						
Chlorobenzilate	<8	8	ug/L						
Pyrene	<8	8	ug/L						
p-(Dimethylamino)azobenzene	<8	8	ug/L						
3,3-Dimethylbenzidine	<8	8	ug/L						
Butyl Benzyl Phthalate	<8	8	ug/L						
Benzo(a)anthracene	<8	8	ug/L						
Chrysene	<8	8	ug/L						
Bis(2-Ethylhexyl) Phthalate	<6	6	ug/L						
Kepone	<8	8	ug/L						
3,3'-Dichlorobenzidine	<8	8	ug/L						
2-Acetylaminofluorene	<8	8	ug/L						
Di-n-octyl Phthalate	<8	8	ug/L						
Benzo(b)Fluoranthene	<8	8	ug/L						
7,12-Dimethylbenz [a] anthracene	<8	8	ug/L						
Benzo(k)Fluoranthene	<8	8	ug/L						
Benzo(a)Pyrene	<8	8	ug/L						
3-Methylcholanthrene	<8	8	ug/L						
Dibenzo(a,h)anthracene	<8	8	ug/L						
Indeno(1,2,3-cd)Pyrene	<8	8	ug/L						
Benzo(g,h,i)perylene	<8	8	ug/L						
Surrogate: 2-Fluorophenol	13.1		ug/L	20.6		63.5	10-149		
Surrogate: Phenol-d6	12.8		ug/L	19.6		65.4	10-143		
Surrogate: Nitrobenzene-d5	13.9		ug/L	20.6		67.7	20-149		
Surrogate: 2-Fluorobiphenyl	14.0		ug/L	19.5		71.6	11-146		
Surrogate: 2,4,6-Tribromophenol	16.6		ug/L	20.0		82.8	10-153		
Surrogate: Terphenyl-d14	17.6		ug/L	20.6		85.3	27-155		
LCS (11C0791-BS1)									
				Prepared: 03/17/25 14:17 Analyzed: 03/24/25 17:03					
N-Nitrosodimethylamine	<8	8	ug/L	10.0		69.6	22-124		
Methyl Methanesulfonate	<8	8	ug/L	10.0		71.5	25-115		
N-Nitrosodiethylamine	<8	8	ug/L	10.0		72.7	19-133		
N-Nitrosomethylethylamine	<8	8	ug/L	10.0		70.4	10-149		
Ethyl Methanesulfonate	<8	8	ug/L	10.0		74.7	29-118		
Phenol	<8	8	ug/L	10.0		72.0	19-130		
Bis(2-Chloroethyl) Ether	<8	8	ug/L	10.0		74.7	23-131		
2-Chlorophenol	<8	8	ug/L	10.0		73.6	20-159		
Benzyl Alcohol	<8	8	ug/L	10.0		56.3	17-138		
2-Methylphenol (o-Cresol)	<8	8	ug/L	10.0		76.5	29-130		
Bis[2-Chloroisopropyl]ether	<8	8	ug/L	10.0		75.2	29-121		
n-Nitroso-di-n-propylamine	<8	8	ug/L	10.0		76.0	33-130		
N-Nitrosopyrrolidine	8.2	8	ug/L	10.0		82.2	24-135		
Acetophenone	<8	8	ug/L	10.0		76.3	35-129		

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Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0791 - 3520C BNA Cont Liq - EPA 8270C									
LCS (11C0791-BS1)									
Prepared: 03/17/25 14:17 Analyzed: 03/24/25 17:03									
o-Toluidine	<8	8	ug/L	10.0		69.1	10-119		
(3 & 4)-Methylphenol	<8	8	ug/L	10.0		74.0	27-136		
Hexachloroethane	<8	8	ug/L	10.0		66.4	18-88		
Nitrobenzene	<8	8	ug/L	10.0		77.5	32-133		
N-Nitrosopiperidine	<8	8	ug/L	10.0		76.6	24-134		
Isophorone	<8	8	ug/L	10.0		77.2	37-131		
2-Nitrophenol	<8	8	ug/L	10.0		73.9	41-127		
2,4-Dimethylphenol	<8	8	ug/L	10.0		75.2	34-133		
Bis (2-Chloroethoxy) Methane	<8	8	ug/L	10.0		60.1	29-117		
2,4-Dichlorophenol	<8	8	ug/L	10.0		76.8	41-134		
Naphthalene	<8	8	ug/L	10.0		71.4	31-107		
2,6-Dichlorophenol	<8	8	ug/L	10.0		77.7	21-151		
Hexachloropropene	<8	8	ug/L	10.0		36.5	19-70		
Hexachlorobutadiene	<8	8	ug/L	10.0		63.5	12-100		
N-Nitrosodi-n-butylamine	<8	8	ug/L	10.0		70.1	13-144		
4-Chloro-3-methylphenol	<8	8	ug/L	10.0		78.8	46-141		
2-Methylnaphthalene	<8	8	ug/L	10.0		71.8	35-110		
Isosafrole	<8	8	ug/L	10.0		67.3	38-122		
1,2,4,5-Tetrachlorobenzene	<8	8	ug/L	10.0		58.7	31-102		
Hexachlorocyclopentadiene	<8	8	ug/L	10.0		62.0	10-113		
2,4,6-Trichlorophenol	<8	8	ug/L	10.0		76.9	41-146		
2,4,5-Trichlorophenol	8.2	8	ug/L	10.0		81.7	45-149		
Safrole	<8	8	ug/L	10.0		65.5	36-122		
2-Chloronaphthalene	<8	8	ug/L	10.0		70.5	20-146		
2-Nitroaniline	<8	8	ug/L	10.0		71.6	38-149		
1,4-Naphthoquinone	<8	8	ug/L	10.0		75.5	45-170		
Dimethylphthalate	8.1	8	ug/L	10.0		80.8	40-149		
1,3-Dinitrobenzene	8.1	8	ug/L	10.0		81.1	30-171		
1,2-Dinitrobenzene	8.0	8	ug/L	10.0		79.9	35-159		
2,6-Dinitrotoluene	8.0	8	ug/L	10.0		80.5	40-148		
Acenaphthylene	<8	8	ug/L	10.0		68.0	35-128		
Acenaphthene	<8	8	ug/L	10.0		72.4	34-132		
2,4-Dinitrophenol	9.6	8	ug/L	10.0		95.5	27-165		
4-Nitrophenol	8.1	8	ug/L	10.0		81.0	35-159		
Dibenzofuran	<8	8	ug/L	10.0		76.0	37-136		
2,4-Dinitrotoluene	8.3	8	ug/L	10.0		82.8	42-154		
2,3,4,6-Tetrachlorophenol	8.8	8	ug/L	10.0		87.6	29-163		
Pentachlorobenzene	<8	8	ug/L	10.0		71.0	53-128		
Diethyl Phthalate	8.6	8	ug/L	10.0		85.6	39-156		
Fluorene	<8	8	ug/L	10.0		76.3	34-139		
4-Chlorophenyl Phenyl Ether	<8	8	ug/L	10.0		76.3	39-138		
4,6-Dinitro-2-methylphenol	<8	8	ug/L	10.0		69.4	36-161		

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Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0791 - 3520C BNA Cont Liq - EPA 8270C										
LCS (1IC0791-BS1)				Prepared: 03/17/25 14:17 Analyzed: 03/24/25 17:03						
N-Nitrosodiphenylamine	<8	8	ug/L	10.0		26.7	56-108			Q3
Diphenylamine	<8	8	ug/L	10.0		26.7	20-160			
Azobenzene	<8	8	ug/L	10.0		67.4	31-153			
Diallate	8.4	8	ug/L	10.0		83.9	43-167			
1,3,5-Trinitrobenzene	8.6	8	ug/L	10.0		85.5	50-167			
Phenacetin	8.6	8	ug/L	10.0		86.4	55-146			
4-Bromophenyl Phenyl Ether	<8	8	ug/L	10.0		79.3	31-156			
Pentachlorophenol	10.0	8	ug/L	10.0		100	13-159			
Pronamide	<8	8	ug/L	10.0		57.9	53-139			
Pentachloronitrobenzene (PCNB)	8.4	8	ug/L	10.0		84.1	56-165			
Phenanthrene	8.2	8	ug/L	10.0		81.6	35-147			
Anthracene	<8	8	ug/L	10.0		74.1	36-146			
Di-n-butyl Phthalate	8.5	8	ug/L	10.0		85.4	37-164			
Fluoranthene	8.4	8	ug/L	10.0		84.4	38-155			
Isodrin	8.1	8	ug/L	10.0		80.6	34-148			
Chlorobenzilate	<8	8	ug/L	10.0		60.4	60-136			
Pyrene	8.0	8	ug/L	10.0		80.2	37-157			
Butyl Benzyl Phthalate	8.2	8	ug/L	10.0		81.9	52-150			
Benzo(a)anthracene	<8	8	ug/L	10.0		79.4	39-149			
Chrysene	8.3	8	ug/L	10.0		83.2	39-149			
Bis(2-Ethylhexyl) Phthalate	10.5	6	ug/L	10.0		105	27-186			
2-Acetylaminofluorene	12.3	8	ug/L	10.0		123	20-171			
Di-n-octyl Phthalate	14.4	8	ug/L	10.0		144	39-171			
Benzo(b)Fluoranthene	13.3	8	ug/L	10.0		133	39-165			
7,12-Dimethylbenz [a] anthracene	8.9	8	ug/L	10.0		89.4	22-155			
Benzo(k)Fluoranthene	13.4	8	ug/L	10.0		134	41-160			
Benzo(a)Pyrene	10.7	8	ug/L	10.0		107	37-151			
3-Methylcholanthrene	<8	8	ug/L	10.0		34.2	28-140			
Dibenzo(a,h)anthracene	13.3	8	ug/L	10.0		133	17-178			
Indeno(1,2,3-cd)Pyrene	12.5	8	ug/L	10.0		125	18-176			
Benzo(g,h,i)perylene	12.2	8	ug/L	10.0		122	11-179			
Surrogate: 2-Fluorophenol	14.2		ug/L	20.6		69.0	10-149			
Surrogate: Phenol-d6	14.1		ug/L	19.6		71.9	10-143			
Surrogate: Nitrobenzene-d5	15.5		ug/L	20.6		75.2	31-137			
Surrogate: 2-Fluorobiphenyl	14.2		ug/L	19.5		72.7	29-131			
Surrogate: 2,4,6-Tribromophenol	17.9		ug/L	20.0		89.1	10-153			
Surrogate: Terphenyl-d14	17.8		ug/L	20.6		86.2	30-142			
LCS Dup (1IC0791-BS1)				Prepared: 03/17/25 14:17 Analyzed: 03/24/25 17:27						
N-Nitrosodimethylamine	<8	8	ug/L	10.0		72.7	22-124	4.36	27	
Methyl Methanesulfonate	<8	8	ug/L	10.0		74.6	25-115	4.24	16	
N-Nitrosodiethylamine	<8	8	ug/L	10.0		73.1	19-133	0.549	30	
N-Nitrosomethylethylamine	<8	8	ug/L	10.0		70.4	10-149	0.00	30	

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CERTIFICATE OF ANALYSIS

11C0854

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0791 - 3520C BNA Cont Liq - EPA 8270C										
LCS Dup (11C0791-BSD1)				Prepared: 03/17/25 14:17 Analyzed: 03/24/25 17:27						
Ethyl Methanesulfonate	<8	8	ug/L	10.0		74.8	29-118	0.134	17	
Phenol	<8	8	ug/L	10.0		74.3	19-130	3.14	30	
Bis(2-Chloroethyl) Ether	<8	8	ug/L	10.0		75.6	23-131	1.20	24	
2-Chlorophenol	<8	8	ug/L	10.0		75.6	20-159	2.68	30	
Benzyl Alcohol	<8	8	ug/L	10.0		42.2	17-138	28.6	30	
2-Methylphenol (o-Cresol)	<8	8	ug/L	10.0		78.2	29-130	2.20	30	
Bis[2-Chloroisopropyl]ether	<8	8	ug/L	10.0		78.0	29-121	3.66	26	
n-Nitroso-di-n-propylamine	<8	8	ug/L	10.0		77.3	33-130	1.70	21	
N-Nitrosopyrrolidine	<8	8	ug/L	10.0		77.5	24-135	5.89	30	
Acetophenone	<8	8	ug/L	10.0		78.8	35-129	3.22	22	
o-Toluidine	<8	8	ug/L	10.0		72.1	10-119	4.25	30	
(3 & 4)-Methylphenol	<8	8	ug/L	10.0		77.2	27-136	4.23	30	
Hexachloroethane	<8	8	ug/L	10.0		69.7	18-88	4.85	30	
Nitrobenzene	8.1	8	ug/L	10.0		80.6	32-133	3.92	26	
N-Nitrosopiperidine	<8	8	ug/L	10.0		75.6	24-134	1.31	30	
Isophorone	<8	8	ug/L	10.0		77.4	37-131	0.259	28	
2-Nitrophenol	<8	8	ug/L	10.0		76.8	41-127	3.85	30	
2,4-Dimethylphenol	<8	8	ug/L	10.0		77.3	34-133	2.75	30	
Bis (2-Chloroethoxy) Methane	<8	8	ug/L	10.0		67.0	29-117	10.9	30	
2,4-Dichlorophenol	<8	8	ug/L	10.0		79.0	41-134	2.82	30	
Naphthalene	<8	8	ug/L	10.0		72.6	31-107	1.67	30	
2,6-Dichlorophenol	8.1	8	ug/L	10.0		81.0	21-151	4.16	30	
Hexachloropropene	<8	8	ug/L	10.0		40.0	19-70	9.15	30	
Hexachlorobutadiene	<8	8	ug/L	10.0		65.5	12-100	3.10	30	
N-Nitrosodi-n-butylamine	<8	8	ug/L	10.0		68.5	13-144	2.31	30	
4-Chloro-3-methylphenol	<8	8	ug/L	10.0		77.4	46-141	1.79	30	
2-Methylnaphthalene	<8	8	ug/L	10.0		73.3	35-110	2.07	30	
Isosafrole	<8	8	ug/L	10.0		69.8	38-122	3.65	29	
1,2,4,5-Tetrachlorobenzene	<8	8	ug/L	10.0		58.9	31-102	0.340	30	
Hexachlorocyclopentadiene	<8	8	ug/L	10.0		64.5	10-113	3.95	30	
2,4,6-Trichlorophenol	8.1	8	ug/L	10.0		80.8	41-146	4.95	30	
2,4,5-Trichlorophenol	8.2	8	ug/L	10.0		82.5	45-149	0.974	30	
Safrole	<8	8	ug/L	10.0		69.4	36-122	5.78	30	
2-Chloronaphthalene	<8	8	ug/L	10.0		71.3	20-146	1.13	30	
2-Nitroaniline	<8	8	ug/L	10.0		71.6	38-149	0.00	30	
1,4-Naphthoquinone	<8	8	ug/L	10.0		73.6	45-170	2.55	30	
Dimethylphthalate	8.2	8	ug/L	10.0		82.4	40-149	1.96	23	
1,3-Dinitrobenzene	8.6	8	ug/L	10.0		85.7	30-171	5.52	26	
1,2-Dinitrobenzene	8.2	8	ug/L	10.0		82.4	35-159	3.08	26	
2,6-Dinitrotoluene	8.4	8	ug/L	10.0		83.7	40-148	3.90	30	
Acenaphthylene	<8	8	ug/L	10.0		70.9	35-128	4.18	30	
Acenaphthene	<8	8	ug/L	10.0		75.1	34-132	3.66	30	

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1IC0854

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0791 - 3520C BNA Cont Liq - EPA 8270C										
LCS Dup (1IC0791-BSD1)				Prepared: 03/17/25 14:17 Analyzed: 03/24/25 17:27						
2,4-Dinitrophenol	9.5	8	ug/L	10.0		95.4	27-165	0.105	30	
4-Nitrophenol	8.2	8	ug/L	10.0		81.5	35-159	0.615	30	
Dibenzofuran	<8	8	ug/L	10.0		77.3	37-136	1.70	30	
2,4-Dinitrotoluene	8.3	8	ug/L	10.0		83.0	42-154	0.241	30	
2,3,4,6-Tetrachlorophenol	9.0	8	ug/L	10.0		90.0	29-163	2.70	30	
Pentachlorobenzene	<8	8	ug/L	10.0		68.8	53-128	3.15	30	
Diethyl Phthalate	8.8	8	ug/L	10.0		88.0	39-156	2.76	30	
Fluorene	<8	8	ug/L	10.0		77.8	34-139	1.95	30	
4-Chlorophenyl Phenyl Ether	<8	8	ug/L	10.0		76.8	39-138	0.653	30	
4,6-Dinitro-2-methylphenol	<8	8	ug/L	10.0		77.0	36-161	10.4	30	
N-Nitrosodiphenylamine	<8	8	ug/L	10.0		31.0	56-108	14.9	30	Q3
Diphenylamine	<8	8	ug/L	10.0		31.0	20-160	14.9	30	
Azobenzene	<8	8	ug/L	10.0		73.2	31-153	8.25	30	
Diallate	8.5	8	ug/L	10.0		85.2	43-167	1.54	30	
1,3,5-Trinitrobenzene	8.7	8	ug/L	10.0		86.6	50-167	1.28	30	
Phenacetin	9.0	8	ug/L	10.0		89.6	55-146	3.64	24	
4-Bromophenyl Phenyl Ether	8.0	8	ug/L	10.0		80.2	31-156	1.13	30	
Pentachlorophenol	10.0	8	ug/L	10.0		99.7	13-159	0.600	30	
Pronamide	<8	8	ug/L	10.0		62.8	53-139	8.12	30	
Pentachloronitrobenzene (PCNB)	8.6	8	ug/L	10.0		86.3	56-165	2.58	30	
Phenanthrene	8.4	8	ug/L	10.0		83.7	35-147	2.54	30	
Anthracene	<8	8	ug/L	10.0		76.6	36-146	3.32	30	
Di-n-butyl Phthalate	8.8	8	ug/L	10.0		87.9	37-164	2.89	30	
Fluoranthene	8.6	8	ug/L	10.0		85.9	38-155	1.76	30	
Isodrin	8.5	8	ug/L	10.0		85.3	34-148	5.67	30	
Chlorobenzilate	<8	8	ug/L	10.0		62.2	60-136	2.94	30	
Pyrene	8.2	8	ug/L	10.0		82.5	37-157	2.83	30	
Butyl Benzyl Phthalate	8.3	8	ug/L	10.0		83.3	52-150	1.69	30	
Benzo(a)anthracene	8.0	8	ug/L	10.0		80.4	39-149	1.25	30	
Chrysene	8.3	8	ug/L	10.0		83.4	39-149	0.240	30	
Bis(2-Ethylhexyl) Phthalate	11.9	6	ug/L	10.0		119	27-186	12.4	30	
2-Acetylaminofluorene	11.8	8	ug/L	10.0		118	20-171	4.65	30	
Di-n-octyl Phthalate	14.4	8	ug/L	10.0		144	39-171	0.208	30	
Benzo(b)Fluoranthene	13.3	8	ug/L	10.0		133	39-165	0.300	30	
7,12-Dimethylbenz [a] anthracene	9.1	8	ug/L	10.0		91.2	22-155	1.99	30	
Benzo(k)Fluoranthene	13.5	8	ug/L	10.0		135	41-160	1.04	30	
Benzo(a)Pyrene	10.7	8	ug/L	10.0		107	37-151	0.468	30	
3-Methylcholanthrene	<8	8	ug/L	10.0		38.5	28-140	11.8	30	
Dibenzo(a,h)anthracene	13.2	8	ug/L	10.0		132	17-178	0.908	30	
Indeno(1,2,3-cd)Pyrene	12.4	8	ug/L	10.0		124	18-176	0.886	30	
Benzo(g,h,i)perylene	12.0	8	ug/L	10.0		120	11-179	1.49	30	

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Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0791 - 3520C BNA Cont Liq - EPA 8270C									
LCS Dup (11C0791-BSD1)				Prepared: 03/17/25 14:17 Analyzed: 03/24/25 17:27					
Surrogate: 2-Fluorophenol	14.9		ug/L	20.6		72.1	10-149		
Surrogate: Phenol-d6	14.6		ug/L	19.6		74.3	10-143		
Surrogate: Nitrobenzene-d5	15.6		ug/L	20.6		76.1	31-137		
Surrogate: 2-Fluorobiphenyl	14.6		ug/L	19.5		74.8	29-131		
Surrogate: 2,4,6-Tribromophenol	17.7		ug/L	20.0		88.5	10-153		
Surrogate: Terphenyl-d14	18.3		ug/L	20.6		88.8	30-142		
Reference (11C0791-SRM1)				Prepared: 03/17/25 14:17 Analyzed: 03/24/25 17:52					
N-Nitrosodimethylamine	8.6	8	ug/L	10.0		85.8	80-120		
Methyl Methanesulfonate	9.4	8	ug/L	10.0		93.6	80-120		
N-Nitrosodiethylamine	8.4	8	ug/L	10.0		83.5	80-120		
N-Nitrosomethylethylamine	8.4	8	ug/L	10.0		83.6	80-120		
Ethyl Methanesulfonate	9.3	8	ug/L	10.0		93.2	80-120		
Phenol	8.8	8	ug/L	10.0		88.3	80-120		
Bis(2-Chloroethyl) Ether	8.8	8	ug/L	10.0		88.0	80-120		
2-Chlorophenol	9.0	8	ug/L	10.0		89.9	80-120		
2-Methylphenol (o-Cresol)	8.6	8	ug/L	10.0		86.5	80-120		
Bis[2-Chloroisopropyl]ether	9.0	8	ug/L	10.0		89.7	80-120		
n-Nitroso-di-n-propylamine	8.8	8	ug/L	10.0		88.4	80-120		
N-Nitrosopyrrolidine	8.6	8	ug/L	10.0		85.5	80-120		
Acetophenone	9.4	8	ug/L	10.0		94.4	80-120		
(3 & 4)-Methylphenol	8.8	8	ug/L	10.0		87.7	80-120		
Hexachloroethane	8.9	8	ug/L	10.0		89.1	80-120		
Nitrobenzene	9.3	8	ug/L	10.0		92.8	80-120		
N-Nitrosopiperidine	8.8	8	ug/L	10.0		88.5	80-120		
Isophorone	9.2	8	ug/L	10.0		91.7	80-120		
2-Nitrophenol	9.3	8	ug/L	10.0		93.2	80-120		
2,4-Dimethylphenol	9.2	8	ug/L	10.0		92.3	80-120		
Bis (2-Chloroethoxy) Methane	9.1	8	ug/L	10.0		91.4	80-120		
2,4-Dichlorophenol	9.2	8	ug/L	10.0		91.8	80-120		
Naphthalene	9.0	8	ug/L	10.0		89.9	80-120		
2,6-Dichlorophenol	9.8	8	ug/L	10.0		97.9	80-120		
Hexachloropropene	9.9	8	ug/L	10.0		99.2	80-120		
Hexachlorobutadiene	9.2	8	ug/L	10.0		92.0	80-120		
N-Nitrosodi-n-butylamine	8.3	8	ug/L	10.0		82.8	80-120		
4-Chloro-3-methylphenol	8.3	8	ug/L	10.0		82.7	80-120		
2-Methylnaphthalene	9.2	8	ug/L	10.0		91.5	80-120		
Isosafrole	9.2	8	ug/L	10.0		92.3	80-120		
1,2,4,5-Tetrachlorobenzene	9.6	8	ug/L	10.0		95.7	80-120		
Hexachlorocyclopentadiene	9.8	8	ug/L	10.0		97.5	80-120		
2,4,6-Trichlorophenol	9.2	8	ug/L	10.0		91.9	80-120		
2,4,5-Trichlorophenol	8.9	8	ug/L	10.0		88.6	80-120		
Safrole	9.6	8	ug/L	10.0		95.7	80-120		

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Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0791 - 3520C BNA Cont Liq - EPA 8270C									
Reference (11C0791-SRM1)	Prepared: 03/17/25 14:17 Analyzed: 03/24/25 17:52								
2-Chloronaphthalene	8.9	8	ug/L	10.0		88.8	80-120		
2-Nitroaniline	8.9	8	ug/L	10.0		89.3	80-120		
1,4-Naphthoquinone	11.2	8	ug/L	10.0		112	80-120		
Dimethylphthalate	9.0	8	ug/L	10.0		89.6	80-120		
1,3-Dinitrobenzene	9.3	8	ug/L	10.0		93.2	80-120		
1,2-Dinitrobenzene	8.9	8	ug/L	10.0		88.9	80-120		
2,6-Dinitrotoluene	9.2	8	ug/L	10.0		91.5	80-120		
Acenaphthylene	8.9	8	ug/L	10.0		88.8	80-120		
3-Nitroaniline	<8	8	ug/L	10.0		75.0	80-120		M2
Acenaphthene	8.8	8	ug/L	10.0		88.5	80-120		
2,4-Dinitrophenol	9.6	8	ug/L	10.0		96.0	80-120		
4-Nitrophenol	<8	8	ug/L	10.0		72.3	80-120		M2
Dibenzofuran	8.9	8	ug/L	10.0		89.1	80-120		
2,4-Dinitrotoluene	9.0	8	ug/L	10.0		90.4	80-120		
2,3,4,6-Tetrachlorophenol	<8	8	ug/L	10.0		75.8	80-120		M2
Pentachlorobenzene	9.6	8	ug/L	10.0		96.2	80-120		
Diethyl Phthalate	9.1	8	ug/L	10.0		90.6	80-120		
Fluorene	9.0	8	ug/L	10.0		90.2	80-120		
4-Chlorophenyl Phenyl Ether	8.9	8	ug/L	10.0		89.4	80-120		
4-Nitroaniline	8.6	8	ug/L	10.0		85.9	80-120		
5-Nitro-o-toluidine	<8	8	ug/L	10.0			80-120		M2
4,6-Dinitro-2-methylphenol	8.8	8	ug/L	10.0		88.4	80-120		
N-Nitrosodiphenylamine	9.1	8	ug/L	10.0		90.6	80-120		
Diphenylamine	9.1	8	ug/L	10.0		90.6	80-120		
Azobenzene	9.1	8	ug/L	10.0		90.8	80-120		
Diallate	10.1	8	ug/L	10.0		101	80-120		
1,3,5-Trinitrobenzene	9.7	8	ug/L	10.0		97.4	80-120		
Phenacetin	9.7	8	ug/L	10.0		97.0	80-120		
4-Bromophenyl Phenyl Ether	8.9	8	ug/L	10.0		89.2	80-120		
Pentachlorophenol	<8	8	ug/L	10.0		71.5	80-120		M2
Pronamide	9.9	8	ug/L	10.0		98.8	80-120		
Pentachloronitrobenzene (PCNB)	9.6	8	ug/L	10.0		96.2	80-120		
Phenanthrene	9.0	8	ug/L	10.0		89.6	80-120		
Anthracene	8.8	8	ug/L	10.0		87.9	80-120		
Di-n-butyl Phthalate	8.8	8	ug/L	10.0		88.4	80-120		
Fluoranthene	8.9	8	ug/L	10.0		88.6	80-120		
Isodrin	9.5	8	ug/L	10.0		95.1	80-120		
Chlorobenzilate	10.0	8	ug/L	10.0		99.9	80-120		
Pyrene	9.1	8	ug/L	10.0		91.0	80-120		
Butyl Benzyl Phthalate	9.0	8	ug/L	10.0		90.3	80-120		
Benzo(a)anthracene	8.8	8	ug/L	10.0		88.4	80-120		
Chrysene	8.9	8	ug/L	10.0		89.4	80-120		

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Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0791 - 3520C BNA Cont Liq - EPA 8270C										
Reference (11C0791-SRM1)				Prepared: 03/17/25 14:17 Analyzed: 03/24/25 17:52						
Bis(2-Ethylhexyl) Phthalate	8.9	6	ug/L	10.0		88.8	80-120			
2-Acetylaminofluorene	8.9	8	ug/L	10.0		88.7	80-120			
Di-n-octyl Phthalate	9.4	8	ug/L	10.0		94.5	80-120			
Benzo(b)Fluoranthene	8.6	8	ug/L	10.0		86.5	80-120			
7,12-Dimethylbenz [a] anthracene	<8	8	ug/L	10.0			80-120			M2
Benzo(k)Fluoranthene	9.2	8	ug/L	10.0		92.2	80-120			
Benzo(a)Pyrene	9.1	8	ug/L	10.0		90.7	80-120			
3-Methylcholanthrene	8.6	8	ug/L	10.0		85.6	80-120			
Dibenzo(a,h)anthracene	9.0	8	ug/L	10.0		89.7	80-120			
Indeno(1,2,3-cd)Pyrene	9.1	8	ug/L	10.0		91.2	80-120			
Benzo(g,h,i)perylene	9.2	8	ug/L	10.0		91.5	80-120			

Surrogate: 2-Fluorophenol	19.3		ug/L	20.6		93.6	10-149
Surrogate: Phenol-d6	18.0		ug/L	19.6		91.8	10-143
Surrogate: Nitrobenzene-d5	19.1		ug/L	20.6		93.0	20-149
Surrogate: 2-Fluorobiphenyl	18.2		ug/L	19.5		93.4	11-146
Surrogate: 2,4,6-Tribromophenol	19.0		ug/L	20.0		94.6	10-153
Surrogate: Terphenyl-d14	19.9		ug/L	20.6		96.6	27-155

Determination of Organophosphorus Insecticides	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0795 - 3510C NP/OC Sep Fnl - EPA 8141										
Blank (11C0795-BLK1)				Prepared: 03/17/25 14:27 Analyzed: 03/24/25 16:19						
O,O,O-Triethyl phosphorothioate	<0.4	0.4	ug/L							
Thionazin	<0.4	0.4	ug/L							
Phorate	<0.4	0.4	ug/L							
Dimethoate	<0.4	0.4	ug/L							
Disulfoton	<0.4	0.4	ug/L							
Methyl Parathion	<0.4	0.4	ug/L							
Parathion	<0.4	0.4	ug/L							
Famphur	<0.4	0.4	ug/L							

Surrogate: 2-Nitro-m-xylene	8.34		ug/L	13.9		59.9	15-154

LCS (11C0795-BS1)				Prepared: 03/17/25 14:27 Analyzed: 03/25/25 00:43						
O,O,O-Triethyl phosphorothioate	3.68	0.4	ug/L	4.00		92.0	29-156			
Thionazin	4.02	0.4	ug/L	4.00		100	63-131			
Phorate	4.22	0.4	ug/L	4.00		105	51-136			
Dimethoate	5.88	0.4	ug/L	4.00		147	42-157			
Disulfoton	4.06	0.4	ug/L	4.00		102	37-158			
Methyl Parathion	3.85	0.4	ug/L	4.00		96.2	66-140			
Parathion	3.26	0.4	ug/L	4.00		81.6	66-120			



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11C0854

Determination of Organophosphorus Insecticides	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0795 - 3510C NP/OC Sep Fnl - EPA 8141										

LCS (11C0795-BS1)

Prepared: 03/17/25 14:27 Analyzed: 03/25/25 00:43

Famphur	4.94	0.4	ug/L	4.00		123	67-129			
Surrogate: 2-Nitro-m-xylene	12.3		ug/L	13.9		88.6	15-154			
LCS Dup (11C0795-BSD1)										
Prepared: 03/17/25 14:27 Analyzed: 03/25/25 01:25										
O,O,O-Triethyl phosphorothioate	3.28	0.4	ug/L	4.00		82.0	29-156	11.5	30	
Thionazin	3.72	0.4	ug/L	4.00		92.9	63-131	7.76	30	
Phorate	3.89	0.4	ug/L	4.00		97.2	51-136	8.02	30	
Dimethoate	4.98	0.4	ug/L	4.00		125	42-157	16.4	30	
Disulfoton	3.88	0.4	ug/L	4.00		96.9	37-158	4.79	30	
Methyl Parathion	3.60	0.4	ug/L	4.00		89.9	66-140	6.85	30	
Parathion	3.00	0.4	ug/L	4.00		75.1	66-120	8.29	26	
Famphur	4.32	0.4	ug/L	4.00		108	67-129	13.4	30	
Surrogate: 2-Nitro-m-xylene	9.30		ug/L	13.9		66.8	15-154			

Determination of Chlorinated Phenoxy Herbicides	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0735 - EPA 8151A - EPA 8151A										

Blank (11C0735-BLK1)

Prepared: 03/14/25 15:57 Analyzed: 03/21/25 17:22

2,4-D	<2.0	2.0	ug/L							
2,4,5-TP (Silvex)	<0.5	0.5	ug/L							
2,4,5-T	<0.5	0.5	ug/L							
Dinoseb	<0.5	0.5	ug/L							
Surrogate: 2,5-Dichlorobenzoic Acid	1.98		ug/L	2.02		98.3	36-159			
LCS (11C0735-BS1)										
Prepared: 03/14/25 15:57 Analyzed: 03/21/25 23:45										
2,4-D	<2.0	2.0	ug/L	1.00		66.5	34-138			
2,4,5-TP (Silvex)	<0.5	0.5	ug/L	0.500		83.0	35-145			
2,4,5-T	<0.5	0.5	ug/L	0.500		85.0	17-168			
Dinoseb	0.86	0.5	ug/L	1.00		86.5	10-140			
Surrogate: 2,5-Dichlorobenzoic Acid	2.01		ug/L	2.02		99.5	36-159			

LCS Dup (11C0735-BSD1)

Prepared: 03/14/25 15:57 Analyzed: 03/22/25 00:17

2,4-D	<2.0	2.0	ug/L	1.00		79.0	34-138	17.2	30	
2,4,5-TP (Silvex)	<0.5	0.5	ug/L	0.500		90.0	35-145	8.09	30	
2,4,5-T	0.52	0.5	ug/L	0.500		104	17-168	20.1	30	
Dinoseb	0.61	0.5	ug/L	1.00		61.0	10-140	34.6	30	R1
Surrogate: 2,5-Dichlorobenzoic Acid	2.13		ug/L	2.02		105	36-159			

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Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0789 - 3510C NP/OC Sep Fnl - EPA 8081									
Blank (1IC0789-BLK1)									
Prepared: 03/17/25 14:21 Analyzed: 03/21/25 11:31									
Alpha-BHC	<0.05	0.05	ug/L						
Gamma-BHC [Lindane]	<0.05	0.05	ug/L						
Beta-BHC	<0.05	0.05	ug/L						
Heptachlor	<0.05	0.05	ug/L						
Delta-BHC	<0.05	0.05	ug/L						
Aldrin	<0.05	0.05	ug/L						
Heptachlor Epoxide	<0.05	0.05	ug/L						
Endosulfan I	<0.05	0.05	ug/L						
4,4'-DDE	<0.05	0.05	ug/L						
Dieldrin	<0.05	0.05	ug/L						
Endrin	<0.05	0.05	ug/L						
4,4'-DDD	<0.05	0.05	ug/L						
Endosulfan II	<0.05	0.05	ug/L						
4,4'-DDT	<0.05	0.05	ug/L						
Endrin Aldehyde	<0.05	0.05	ug/L						
Endosulfan Sulfate	<0.05	0.05	ug/L						
Methoxychlor	<0.05	0.05	ug/L						
Chlordane	<0.10	0.10	ug/L						
Toxaphene	<0.20	0.20	ug/L						
Hexachlorobenzene	<0.05	0.05	ug/L						
Surrogate: Tetrachloro-m-xylene	0.478		ug/L	0.600		79.6	40-116		
LCS (1IC0789-BS1)									
Prepared: 03/17/25 14:21 Analyzed: 03/21/25 11:45									
Alpha-BHC	0.201	0.05	ug/L	0.250		80.3	52-118		
Gamma-BHC [Lindane]	0.222	0.05	ug/L	0.250		88.9	53-122		
Beta-BHC	0.206	0.05	ug/L	0.250		82.6	54-116		
Heptachlor	0.191	0.05	ug/L	0.250		76.4	58-126		
Delta-BHC	0.222	0.05	ug/L	0.250		88.9	54-134		
Aldrin	0.203	0.05	ug/L	0.250		81.3	47-122		
Heptachlor Epoxide	0.231	0.05	ug/L	0.250		92.2	50-123		
Endosulfan I	0.220	0.05	ug/L	0.250		88.0	55-124		
4,4'-DDE	0.207	0.05	ug/L	0.250		83.0	49-141		
Dieldrin	0.211	0.05	ug/L	0.250		84.4	50-118		
Endrin	0.229	0.05	ug/L	0.250		91.6	39-170		
4,4'-DDD	0.205	0.05	ug/L	0.250		81.9	59-135		
Endosulfan II	0.216	0.05	ug/L	0.250		86.4	56-127		
4,4'-DDT	0.213	0.05	ug/L	0.250		85.0	67-150		
Endrin Aldehyde	0.149	0.05	ug/L	0.250		59.8	57-125		
Endosulfan Sulfate	0.214	0.05	ug/L	0.250		85.5	53-131		
Methoxychlor	0.207	0.05	ug/L	0.250		83.0	63-153		
Surrogate: Tetrachloro-m-xylene	0.499		ug/L	0.600		83.1	40-116		

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Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0789 - 3510C NP/OC Sep Fnl - EPA 8081									
LCS Dup (1IC0789-BSD1)				Prepared: 03/17/25 14:21 Analyzed: 03/21/25 12:29					
Alpha-BHC	0.211	0.05	ug/L	0.250		84.4	52-118	4.95	30
Gamma-BHC [Lindane]	0.237	0.05	ug/L	0.250		95.0	53-122	6.59	30
Beta-BHC	0.216	0.05	ug/L	0.250		86.3	54-116	4.40	30
Heptachlor	0.209	0.05	ug/L	0.250		83.7	58-126	9.11	30
Delta-BHC	0.238	0.05	ug/L	0.250		95.3	54-134	6.97	30
Aldrin	0.210	0.05	ug/L	0.250		84.2	47-122	3.47	30
Heptachlor Epoxide	0.242	0.05	ug/L	0.250		96.6	50-123	4.69	30
Endosulfan I	0.230	0.05	ug/L	0.250		91.9	55-124	4.36	30
4,4'-DDE	0.212	0.05	ug/L	0.250		84.8	49-141	2.20	30
Dieldrin	0.221	0.05	ug/L	0.250		88.3	50-118	4.50	30
Endrin	0.242	0.05	ug/L	0.250		96.7	39-170	5.48	30
4,4'-DDD	0.216	0.05	ug/L	0.250		86.2	59-135	5.09	30
Endosulfan II	0.228	0.05	ug/L	0.250		91.2	56-127	5.37	30
4,4'-DDT	0.229	0.05	ug/L	0.250		91.6	67-150	7.41	30
Endrin Aldehyde	0.192	0.05	ug/L	0.250		76.8	57-125	25.0	30
Endosulfan Sulfate	0.227	0.05	ug/L	0.250		90.9	53-131	6.12	30
Methoxychlor	0.218	0.05	ug/L	0.250		87.2	63-153	4.89	30
Surrogate: Tetrachloro-m-xylene	0.493		ug/L	0.600		82.1	40-116		

Determination of Polychlorinated Biphenyls (PCB)	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0790 - 3510C NP/OC Sep Fnl - EPA 8082									
Blank (1IC0790-BLK1)				Prepared: 03/17/25 14:24 Analyzed: 03/21/25 11:31					
Arochlor 1016	<0.20	0.20	ug/L						
Arochlor 1221	<0.20	0.20	ug/L						
Arochlor 1232	<0.20	0.20	ug/L						
Arochlor 1242	<0.20	0.20	ug/L						
Arochlor 1248	<0.20	0.20	ug/L						
Arochlor 1254	<0.20	0.20	ug/L						
Arochlor 1260	<0.20	0.20	ug/L						
Surrogate: Tetrachloro-m-xylene	0.478		ug/L	0.600		79.6	37-120		
Surrogate: Decachlorobiphenyl	0.582		ug/L	0.600		97.0	22-116		
LCS (1IC0790-BS1)				Prepared: 03/17/25 14:24 Analyzed: 03/21/25 12:00					
Arochlor 1016	2.283	0.20	ug/L	2.60		87.8	42-132		
Arochlor 1260	2.425	0.20	ug/L	2.60		93.3	50-139		
Surrogate: Tetrachloro-m-xylene	0.531		ug/L	0.600		88.5	37-120		
Surrogate: Decachlorobiphenyl	0.555		ug/L	0.600		92.5	22-116		



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Determination of	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Polychlorinated Biphenyls (PCB)										
Batch 11C0790 - 3510C NP/OC Sep Fnl - EPA 8082										
LCS Dup (11C0790-BSD1)				Prepared: 03/17/25 14:24 Analyzed: 03/21/25 12:15						
Arochlor 1016	2.386	0.20	ug/L	2.60		91.8	42-132	4.40	20	
Arochlor 1260	2.565	0.20	ug/L	2.60		98.7	50-139	5.59	24	
Surrogate: Tetrachloro-m-xylene	0.577		ug/L	0.600		96.2	37-120			
Surrogate: Decachlorobiphenyl	0.586		ug/L	0.600		97.7	22-116			
Determination of	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Conventional Chemistry Parameters										
Batch 11C0760 - Wet Chem Preparation - EPA 376.2										
Blank (11C0760-BLK1)				Prepared & Analyzed: 03/17/25 09:28						
Sulfide, total	<0.10	0.10	mg/L							
LCS (11C0760-BS1)				Prepared & Analyzed: 03/17/25 09:28						
Sulfide, total	0.263	0.10	mg/L	0.31		83.4	56-118			
Matrix Spike (11C0760-MS1)				Source: 11C0696-01 Prepared & Analyzed: 03/17/25 09:28						
Sulfide, total	0.471	0.30	mg/L	0.94	ND	49.9	50-150			M2
Matrix Spike Dup (11C0760-MSD1)				Source: 11C0696-01 Prepared & Analyzed: 03/17/25 09:28						
Sulfide, total	0.493	0.30	mg/L	0.94	ND	52.2	50-150	4.55	30	
Batch 11C0986 - Wet Chem Preparation - EPA 9014										
Blank (11C0986-BLK1)				Prepared: 03/20/25 07:16 Analyzed: 03/21/25 09:08						
Cyanide, total	<0.010	0.010	mg/L							
LCS (11C0986-BS1)				Prepared: 03/20/25 07:16 Analyzed: 03/21/25 09:08						
Cyanide, total	0.0163	0.010	mg/L	0.0200		81.4	66-127			
Matrix Spike (11C0986-MS1)				Source: 11C0827-03 Prepared: 03/20/25 07:16 Analyzed: 03/21/25 09:08						
Cyanide, total	0.0170	0.010	mg/L	0.0200	ND	85.0	56-132			
Matrix Spike Dup (11C0986-MSD1)				Source: 11C0827-03 Prepared: 03/20/25 07:16 Analyzed: 03/21/25 09:08						
Cyanide, total	0.0159	0.010	mg/L	0.0200	ND	79.6	56-132	6.57	28	
Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0761 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (11C0761-BLK1)				Prepared: 03/17/25 09:38 Analyzed: 03/20/25 04:11						
Antimony, total	<0.0020	0.0020	mg/L							
Arsenic, total	<0.0040	0.0040	mg/L							
Barium, total	<0.0040	0.0040	mg/L							
Beryllium, total	<0.0040	0.0040	mg/L							
Cadmium, total	<0.0008	0.0008	mg/L							

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Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0761 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (11C0761-BLK1)				Prepared: 03/17/25 09:38 Analyzed: 03/20/25 04:11						
Chromium, total	<0.0080	0.0080	mg/L							
Cobalt, total	<0.0004	0.0004	mg/L							
Copper, total	<0.0040	0.0040	mg/L							
Lead, total	<0.0040	0.0040	mg/L							
Nickel, total	<0.0040	0.0040	mg/L							
Selenium, total	<0.0040	0.0040	mg/L							
Silver, total	<0.0040	0.0040	mg/L							
Thallium, total	<0.0020	0.0020	mg/L							
Tin, total	<0.0200	0.0200	mg/L							
Vanadium, total	<0.0200	0.0200	mg/L							
Zinc, total	<0.0200	0.0200	mg/L							
LCS (11C0761-BS1)				Prepared: 03/17/25 09:38 Analyzed: 03/20/25 04:17						
Antimony, total	0.0887	0.0020	mg/L	0.100		88.7	80-120			
Arsenic, total	0.0943	0.0040	mg/L	0.100		94.3	80-120			
Barium, total	0.105	0.0040	mg/L	0.100		105	80-120			
Beryllium, total	0.0946	0.0040	mg/L	0.100		94.6	80-120			
Cadmium, total	0.0906	0.0008	mg/L	0.100		90.6	80-120			
Chromium, total	0.0917	0.0080	mg/L	0.100		91.7	80-120			
Cobalt, total	0.100	0.0004	mg/L	0.100		100	80-120			
Copper, total	0.0975	0.0040	mg/L	0.100		97.5	80-120			
Lead, total	0.0974	0.0040	mg/L	0.100		97.4	80-120			
Nickel, total	0.0985	0.0040	mg/L	0.100		98.5	80-120			
Selenium, total	0.0958	0.0040	mg/L	0.100		95.8	80-120			
Silver, total	0.0963	0.0040	mg/L	0.100		96.3	80-120			
Thallium, total	0.0962	0.0020	mg/L	0.100		96.2	80-120			
Tin, total	0.0910	0.0200	mg/L	0.100		91.0	80-120			
Vanadium, total	0.0970	0.0200	mg/L	0.100		97.0	80-120			
Zinc, total	0.102	0.0200	mg/L	0.100		102	80-120			
Matrix Spike (11C0761-MS1)				Source: 11C0854-01		Prepared: 03/17/25 09:38 Analyzed: 03/20/25 04:29				
Antimony, total	0.0916	0.0020	mg/L	0.100	ND	91.6	75-125			
Arsenic, total	0.103	0.0040	mg/L	0.100	0.0035	99.7	75-125			
Barium, total	0.856	0.0040	mg/L	0.100	0.704	152	75-125			M1
Beryllium, total	0.0953	0.0040	mg/L	0.100	ND	95.3	75-125			
Cadmium, total	0.0909	0.0008	mg/L	0.100	0.0001	90.8	75-125			
Chromium, total	0.0913	0.0080	mg/L	0.100	0.0010	90.3	75-125			
Cobalt, total	0.112	0.0004	mg/L	0.100	0.0087	104	75-125			
Copper, total	0.0909	0.0040	mg/L	0.100	ND	90.9	75-125			
Lead, total	0.0923	0.0040	mg/L	0.100	ND	92.3	75-125			
Nickel, total	0.118	0.0040	mg/L	0.100	0.0200	98.4	75-125			
Selenium, total	0.1031	0.0040	mg/L	0.100	ND	103	75-125			
Silver, total	0.0954	0.0040	mg/L	0.100	ND	95.4	75-125			
Thallium, total	0.0936	0.0020	mg/L	0.100	0.0002	93.3	75-125			
Tin, total	0.0949	0.0200	mg/L	0.100	ND	94.9	75-125			

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Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Notes
Batch 1IC0761 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Matrix Spike (1IC0761-MS1)		Source: 1IC0854-01		Prepared: 03/17/25 09:38 Analyzed: 03/20/25 04:29						
Vanadium, total	0.102	0.0200	mg/L	0.100	ND	102	75-125			
Zinc, total	0.0912	0.0200	mg/L	0.100	ND	91.2	75-125			
Matrix Spike Dup (1IC0761-MSD1)		Source: 1IC0854-01		Prepared: 03/17/25 09:38 Analyzed: 03/20/25 04:35						
Antimony, total	0.0908	0.0020	mg/L	0.100	ND	90.8	75-125	0.874	20	M1
Arsenic, total	0.103	0.0040	mg/L	0.100	0.0035	99.2	75-125	0.481	20	
Barium, total	0.836	0.0040	mg/L	0.100	0.704	132	75-125	2.34	20	
Beryllium, total	0.0941	0.0040	mg/L	0.100	ND	94.1	75-125	1.23	20	
Cadmium, total	0.0900	0.0008	mg/L	0.100	0.0001	89.9	75-125	0.996	20	
Chromium, total	0.0909	0.0080	mg/L	0.100	0.0010	89.9	75-125	0.476	20	
Cobalt, total	0.110	0.0004	mg/L	0.100	0.0087	102	75-125	1.71	20	
Copper, total	0.0903	0.0040	mg/L	0.100	ND	90.3	75-125	0.741	20	
Lead, total	0.0916	0.0040	mg/L	0.100	ND	91.6	75-125	0.773	20	
Nickel, total	0.117	0.0040	mg/L	0.100	0.0200	97.2	75-125	1.06	20	
Selenium, total	0.1018	0.0040	mg/L	0.100	ND	102	75-125	1.21	20	
Silver, total	0.0938	0.0040	mg/L	0.100	ND	93.8	75-125	1.75	20	
Thallium, total	0.0927	0.0020	mg/L	0.100	0.0002	92.4	75-125	0.961	20	
Tin, total	0.0937	0.0200	mg/L	0.100	ND	93.7	75-125	1.25	20	
Vanadium, total	0.101	0.0200	mg/L	0.100	ND	101	75-125	0.833	20	
Zinc, total	0.0881	0.0200	mg/L	0.100	ND	88.1	75-125	3.40	20	
Post Spike (1IC0761-PS1)		Source: 1IC0854-01		Prepared: 03/17/25 09:38 Analyzed: 03/20/25 04:42						
Antimony, total	0.0741		mg/L	0.0800	0.00007	92.6	80-120			
Arsenic, total	0.0843		mg/L	0.0800	0.0034	101	80-120			
Barium, total	0.784		mg/L	0.0800	0.690	117	80-120			
Beryllium, total	0.0763		mg/L	0.0800	-0.000008	95.3	80-120			
Cadmium, total	0.0733		mg/L	0.0800	0.0001	91.5	80-120			
Chromium, total	0.0739		mg/L	0.0800	0.0010	91.1	80-120			
Cobalt, total	0.0939		mg/L	0.0800	0.0085	107	80-120			
Copper, total	0.0751		mg/L	0.0800	0.0008	92.9	80-120			
Lead, total	0.0757		mg/L	0.0800	0.0001	94.5	80-120			
Nickel, total	0.100		mg/L	0.0800	0.0196	101	80-120			
Selenium, total	0.0809		mg/L	0.0800	0.0004	101	80-120			
Silver, total	0.0780		mg/L	0.0800	-0.00009	97.5	80-120			
Thallium, total	0.0771		mg/L	0.0800	0.0002	96.1	80-120			
Tin, total	0.0805		mg/L	0.0800	-0.0002	101	75-125			
Vanadium, total	0.0845		mg/L	0.0800	0.0061	98.0	80-120			
Zinc, total	0.0748		mg/L	0.0800	0.0040	88.5	80-120			
Batch 1IC1060 - EPA 7470A Hg Water - EPA 7470A										
Blank (1IC1060-BLK1)			Prepared: 03/20/25 15:36 Analyzed: 03/21/25 14:59							
Mercury, total	<0.00050	0.00050	mg/L							
LCS (1IC1060-BS1)			Prepared: 03/20/25 15:36 Analyzed: 03/21/25 15:01							
Mercury, total	0.00299	0.00050	mg/L	0.00250		120	80-120			

Microbac Laboratories, Inc., Newton

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC0854

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1060 - EPA 7470A Hg Water - EPA 7470A										
Matrix Spike (1IC1060-MS1)	Source: 1IC1029-01			Prepared: 03/20/25 15:36 Analyzed: 03/21/25 15:31						
Mercury, total	0.00312	0.00050	mg/L	0.00250	ND	125	75-125			
Matrix Spike Dup (1IC1060-MSD1)	Source: 1IC1029-01			Prepared: 03/20/25 15:36 Analyzed: 03/21/25 15:33						
Mercury, total	0.00306	0.00050	mg/L	0.00250	ND	123	75-125	1.66	20	

Definitions

B1:	The target analyte was detected in the method blank at or above the method acceptance criteria. The sample concentration is below the method acceptance criteria.
M1:	Matrix spike recovery is above acceptance limits.
M2:	Matrix spike recovery is below acceptance limits.
Q2:	LCS recovery is above acceptance limits.
Q3:	LCS recovery is below acceptance limits. The reported value is estimated.
Q4:	ICV recovery is above acceptance limits. Values that are <RL are not affected
R1:	Duplicate RPD is outside acceptance criteria.
RL:	Reporting Limit
RPD:	Relative Percent Difference
S2:	Surrogate recovery is below acceptance limits.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 0.0°C

Cooler Inspection Checklist

Custody Seals	No	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Confirmed	No
Received On Ice	Yes		

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
03/28/25 16:19



600 East
Newton
641-792



1 I C 0 8 5 4

HLW Engineering
PM: Heather Murphy

Page 1 of

Printed: 2/17/2025 11:04:24A

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SITE INFORMATION

Sampler: LeH
Project: Page Co-New Regs
6047

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

LAB USE ONLY

Work Order 1IC0854

Temperature 0.0

Turn-Cooler: No

☐ Custody Seal
☒ Containers Intact
☒ COC/Labels Agree
☒ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	MW-1D	Aqueous	GRAB	<u>3/10/25</u>	<u>11:41</u>	<u>18</u>	Indfil-app2-inorg-6020 Indfil-app2-org	<u>01</u>
-001	MW-3	Aqueous	GRAB	<u>3/10/25</u>	<u>12:32</u>	<u>7</u>	Indfil-app1-voc-group Indfil-app1-metals-6020	<u>02</u>
-001	MW-7	Aqueous	GRAB	<u>3/10/25</u>	<u>14:12</u>	<u>7</u>	Indfil-app1-voc-group Indfil-app1-metals-6020	<u>03</u>
-001	MW-10	Aqueous	GRAB	<u>3/10/25</u>	<u>14:44</u>	<u>8</u>	8270-110 Indfil-app1-voc-group Indfil-app1-metals-6020	<u>04</u>
-001	MW-13	Aqueous	GRAB	<u>3/10/25</u>	<u>13:44</u>	<u>7</u>	Indfil-app1-voc-group Indfil-app1-metals-6020	<u>05</u>
-001	MW-14	Aqueous	GRAB	<u>3/10/25</u>	<u>13:32</u>	<u>7</u>	Indfil-app1-voc-group Indfil-app1-metals-6020	<u>06</u>
-001	MW-16	Aqueous	GRAB	<u>3/10/25</u>	<u>12:59</u>	<u>7</u>	Indfil-app1-voc-group Indfil-app1-metals-6020	<u>07</u>

Relinquished By

3/10/25
Date/Time

Relinquished By

Date/Time

Received By

Date/Time

Received for Lab By

3/12/25 10:20 AM
Date/Time

Original - Lab Copy Yellow - Sampler Copy

Remarks:



600 East
Newton,
641-7924



1 I C 0 8 5 4

HLW Engineering

PM: Heather Murphy

Page 2 of

Printed: 2/17/2025 11:04:24A

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Page 111 of 112

SITE INFORMATION

Sampler: degt

Project: Page Co-New Regs
6047

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

LAB USE ONLY

Work Order 1IC0854

Temperature 0.0

Turn-Cooler: No

☐ Custody Seal
☒ Containers Intact
☒ COC/Labels Agree
☒ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	MW-17 (b)	Aqueous	GRAB	<u>3 / 10 / 25</u>	<u>12:18</u>	<u>7</u>	Indfill-app1-voc-group Indfill-app1-metals-6020	<u>08</u>
-001	MW-18	Aqueous	GRAB	<u>3 / 10 / 25</u>	<u>12:45</u>	<u>7</u>	Indfill-app1-voc-group Indfill-app1-metals-6020	<u>09</u>
-001	MW-19 <u>R</u>	Aqueous	GRAB	<u>3 / 10 / 25</u>	<u>13:58</u>	<u>7</u>	Indfill-app1-voc-group Indfill-app1-metals-6020	<u>10</u>
-001	MW-20	Aqueous	GRAB	<u>3 / 10 / 25</u>	<u>14:26</u>	<u>7</u>	Indfill-app1-voc-group Indfill-app1-metals-6020	<u>11</u>
-001	GWD-1	Aqueous	GRAB	<u>3 / 10 / 25</u>	<u>13:12</u>	<u>7</u>	Indfill-app1-voc-group Indfill-app1-metals-6020	<u>12</u>
-001	Duplicate	Aqueous	GRAB	<u>3 / 10 / 25</u>	<u>11:44</u>	<u>7</u>	Indfill-app1-voc-group Indfill-app1-metals-6020	<u>13</u>
-001	MW-44 (b)	Aqueous	GRAB	<u>3 / 10 / 25</u>	<u>11:55</u>	<u>7</u>	Indfill-app1-voc-group Indfill-app1-metals-6020	<u>14</u>

5.10.25 3/12/25
Relinquished By Date/Time

Received By Date/Time

Relinquished By [Signature] Date/Time 3/12/2025 10:20 AM
Received for Lab By Date/Time

Original - Lab Copy Yellow - Sampler Copy

Remarks:



600
Nev
641



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HLW Engineering

PM: Heather Murphy

Page 3 of

Printed: 2/17/2025 11:04:24A

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Page 112 of 112

SITE INFORMATION

Sampler: LeH

Project: Page Co-New Regs
6047

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

LAB USE ONLY

Work Order 1IC0854

Temperature 0.0

Turn-Cooler: No

☐ Custody Seal
☒ Containers Intact
☒ COC/Labels Agree
☒ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	MW-53	Aqueous	GRAB	<u>3/10/25</u>	<u>15:02</u>	<u>7</u>	hndfll-app1-voc-group hndfll-app1-metals-6020	<u>15</u>
-001	GWD-2 <u>NO SAMPLE</u>	Aqueous	GRAB	<u>---</u>	<u>---</u>	<u>---</u>	hndfll-app1-voc-group hndfll-app1-metals-6020	<u>EE' EDPH</u>
-001	GWD-3	Aqueous	GRAB	<u>3/10/25</u>	<u>15:14</u>	<u>7</u>	hndfll-app1-voc-group hndfll-app1-metals-6020	<u>↓ 1710</u>
-001	GWD-4	Aqueous	GRAB	<u>3/10/25</u>	<u>15:25</u>	<u>7</u>	hndfll-app1-voc-group hndfll-app1-metals-6020	<u>17</u>

S. O. H. t 3/12/25
Relinquished By Date/Time

Received By Date/Time

[Signature] 3/12/2025 10:20 AM
Relinquished By Date/Time
Received for Lab By Date/Time

Original - Lab Copy Yellow - Sampler Copy

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IE0672

Project Description

6047

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Tisdale

Customer Relationship Specialist

Friday, June 27, 2025

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., Newton. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11E0672

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: 6047

Project / PO Number: N/A
Received: 05/07/2025
Reported: 06/27/2025

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
MW-13	11E0672-01	Aqueous	GRAB		05/01/25 13:20	05/07/25 09:50



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11E0672

Analytical Testing Parameters

Client Sample ID:	MW-13	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	05/01/2025 13:20
Lab Sample ID:	11E0672-01		

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Cadmium, total	0.0002	0.0002	mg/L		06/21/25 1011	06/25/25 1947	RVV



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11E0672

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	11F1181	11F1181-BLK1	
		11F1181-BS1	
		11E0672-01	MW-13
		11F1181-MS1	11F1411-01
		11F1181-MSD1	11F1411-01
		11F1181-PS1	11F1411-01

Batch Quality Control Summary: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11F1181 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (11F1181-BLK1)				Prepared: 06/21/25 10:11 Analyzed: 06/25/25 19:42						
Cadmium, total	<0.0002	0.0002	mg/L							
LCS (11F1181-BS1)				Prepared: 06/21/25 10:11 Analyzed: 06/25/25 19:45						
Cadmium, total	0.0983	0.0002	mg/L	0.100		98.3	80-120			
Matrix Spike (11F1181-MS1)				Source: 11F1411-01 Prepared: 06/21/25 10:11 Analyzed: 06/25/25 20:00						
Cadmium, total	0.0987	0.0002	mg/L	0.100	ND	98.7	75-125			
Matrix Spike Dup (11F1181-MSD1)				Source: 11F1411-01 Prepared: 06/21/25 10:11 Analyzed: 06/25/25 20:02						
Cadmium, total	0.0991	0.0002	mg/L	0.100	ND	99.1	75-125	0.387	20	
Post Spike (11F1181-PS1)				Source: 11F1411-01 Prepared: 06/21/25 10:11 Analyzed: 06/25/25 20:10						
Cadmium, total	0.0191		mg/L	0.0200	0.00003	95.2	80-120			

Definitions

RL: Reporting Limit
RPD: Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 0.8°C

Cooler Inspection Checklist

Custody Seals	No	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Confirmed	No
Received On Ice	Yes		

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Heather Tisdale
Customer Relationship Specialist
06/27/25 09:07

Keystone
LABORATORIES, INC.

600 E. 17th St. S.
Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989

3012 Ansborough
Waterloo, IA 50701
Phone: 319-235-4111
Fax: 319-235-4112



HLW Engineering
PM: Heather Murphy

205 E VanBuren St
Centerville, IA 52544
Phone: 641-437-7023
Fax: 641-437-7040

PAGE 1 OF 1

Page 5 of 5

PRINT OR TYPE INFORMATION BELOW

SAMPLER: JGH

SITE NAME: PAGE CO SLF

ADDRESS: 2032 N AVE

CITY/ST/ZIP: CLARINDA, IA 51632

PHONE:

REPORT TO:

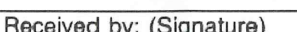
NAME: TODD WHIPPLE
COMPANY NAME: HLW ENGINEERING
ADDRESS: PO BOX 314
CITY/ST/ZIP: STORY CITY, IA 50248
PHONE: 515-733-4144
FAX: 515-733-4146

BILL TO:

BILL TO:
NAME: BRIAN WARD
COMPANY NAME: PAGE CO SLF
ADDRESS: 2032 N AVE
CITY/ST/ZIP: CLARINDA, IA 51632
PHONE:

Keystone Quote No: _____ (If Applicable)

[illegible]

Relinquished by: (Signature) 	Date 5/7/25 Time	Received by: (Signature) 	Date Time	Turn-Around: ☐ Standard ☐ Rush _____ Contact Lab Prior to Submission
Relinquished by: (Signature) 	Date Time	Received for Lab by: (Signature) 	Date 5-2-25 Time 9:50	Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11I0763

Project Description

6047

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Friday, October 3, 2025

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., Newton. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

600 East 17th Street South | Newton, IA 50208 | 641-792-8451 p | www.microbac.com



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11I0763

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: 6047

Project / PO Number: N/A
Received: 09/09/2025
Reported: 10/03/2025

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
MW-1D	11I0763-01	Aqueous	GRAB		09/08/25 15:04	09/09/25 10:50
MW-3	11I0763-02	Aqueous	GRAB		09/08/25 15:51	09/09/25 10:50
MW-7	11I0763-03	Aqueous	GRAB		09/08/25 17:40	09/09/25 10:50
MW-10	11I0763-04	Aqueous	GRAB		09/08/25 14:39	09/09/25 10:50
MW-13	11I0763-05	Aqueous	GRAB		09/08/25 17:17	09/09/25 10:50
MW-14	11I0763-06	Aqueous	GRAB		09/08/25 17:00	09/09/25 10:50
MW-16	11I0763-07	Aqueous	GRAB		09/08/25 16:16	09/09/25 10:50
MW-17 (b)	11I0763-08	Aqueous	GRAB		09/08/25 15:33	09/09/25 10:50
MW-18	11I0763-09	Aqueous	GRAB		09/08/25 16:04	09/09/25 10:50
MW-19R	11I0763-10	Aqueous	GRAB		09/08/25 17:27	09/09/25 10:50
MW-20	11I0763-11	Aqueous	GRAB		09/08/25 17:54	09/09/25 10:50
GWD-1	11I0763-12	Aqueous	GRAB		09/08/25 16:32	09/09/25 10:50
Duplicate	11I0763-13	Aqueous	GRAB		09/08/25 00:00	09/09/25 10:50
MW-44 (b)	11I0763-14	Aqueous	GRAB		09/08/25 15:20	09/09/25 10:50
MW-53	11I0763-15	Aqueous	GRAB		09/08/25 18:07	09/09/25 10:50
GWD-3	11I0763-16	Aqueous	GRAB		09/08/25 18:30	09/09/25 10:50
GWD-4	11I0763-17	Aqueous	GRAB		09/08/25 18:35	09/09/25 10:50



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11I0763

Analytical Testing Parameters

Client Sample ID: MW-1D
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-01

Collected By: Whipple, Todd
Collection Date: 09/08/2025 15:04

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Bromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Chloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Acetone	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Chloroform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Benzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Dibromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Toluene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Xylenes, total	<2.0	2.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Styrene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-1D
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-01

Collected By: Whipple, Todd
Collection Date: 09/08/2025 15:04

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Bromoform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1129	RAF
Surrogate: Dibromofluoromethane	99.2	Limit: 75-136	% Rec		09/11/25 0000	09/11/25 1129	RAF
Surrogate: Dibromofluoromethane	99.2	Limit: 57-128	% Rec		09/11/25 0000	09/11/25 1129	RAF
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 49-135	% Rec		09/11/25 0000	09/11/25 1129	RAF
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 61-142	% Rec		09/11/25 0000	09/11/25 1129	RAF
Surrogate: Toluene-d8	101	Limit: 82-121	% Rec		09/11/25 0000	09/11/25 1129	RAF
Surrogate: Toluene-d8	101	Limit: 82-116	% Rec		09/11/25 0000	09/11/25 1129	RAF
Surrogate: 4-Bromofluorobenzene	95.0	Limit: 80-116	% Rec		09/11/25 0000	09/11/25 1129	RAF
Surrogate: 4-Bromofluorobenzene	95.0	Limit: 77-114	% Rec		09/11/25 0000	09/11/25 1129	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1647	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1647	JAR
Barium, total	0.657	0.0010	mg/L		09/11/25 0832	09/11/25 1647	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1647	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/11/25 0832	09/11/25 1647	JAR
Chromium, total	0.0012	0.0010	mg/L		09/11/25 0832	09/11/25 1647	JAR
Cobalt, total	0.0057	0.0005	mg/L		09/11/25 0832	09/11/25 1647	JAR
Copper, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1647	JAR
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1647	JAR
Nickel, total	0.0166	0.0050	mg/L		09/11/25 0832	09/11/25 1647	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1647	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1647	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1647	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1647	JAR
Zinc, total	0.0138	0.0050	mg/L		09/11/25 0832	09/11/25 1647	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-3
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-02

Collected By: Whipple, Todd
Collection Date: 09/08/2025 15:51

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Bromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Chloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Acetone	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Chloroform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Benzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Dibromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Toluene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Xylenes, total	<2.0	2.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Styrene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Bromoform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF

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11I0763

Client Sample ID: MW-3
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-02

Collected By: Whipple, Todd
Collection Date: 09/08/2025 15:51

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1152	RAF
Surrogate: Dibromofluoromethane	95.8	Limit: 57-128	% Rec		09/11/25 0000	09/11/25 1152	RAF
Surrogate: Dibromofluoromethane	95.8	Limit: 75-136	% Rec		09/11/25 0000	09/11/25 1152	RAF
Surrogate: 1,2-Dichloroethane-d4	95.1	Limit: 61-142	% Rec		09/11/25 0000	09/11/25 1152	RAF
Surrogate: 1,2-Dichloroethane-d4	95.1	Limit: 49-135	% Rec		09/11/25 0000	09/11/25 1152	RAF
Surrogate: Toluene-d8	100	Limit: 82-116	% Rec		09/11/25 0000	09/11/25 1152	RAF
Surrogate: Toluene-d8	100	Limit: 82-121	% Rec		09/11/25 0000	09/11/25 1152	RAF
Surrogate: 4-Bromofluorobenzene	93.9	Limit: 80-116	% Rec		09/11/25 0000	09/11/25 1152	RAF
Surrogate: 4-Bromofluorobenzene	93.9	Limit: 77-114	% Rec		09/11/25 0000	09/11/25 1152	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1650	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1650	JAR
Barium, total	0.283	0.0010	mg/L		09/11/25 0832	09/11/25 1650	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1650	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/11/25 0832	09/11/25 1650	JAR
Chromium, total	0.0037	0.0010	mg/L		09/11/25 0832	09/11/25 1650	JAR
Cobalt, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1650	JAR
Copper, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1650	JAR
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1650	JAR
Nickel, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1650	JAR
Selenium, total	0.0038	0.0020	mg/L		09/11/25 0832	09/11/25 1650	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1650	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1650	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1650	JAR
Zinc, total	0.0058	0.0050	mg/L		09/11/25 0832	09/11/25 1650	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-7
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-03

Collected By: Whipple, Todd
Collection Date: 09/08/2025 17:40

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Bromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Chloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Acetone	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Chloroform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Benzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Dibromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Toluene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Xylenes, total	<2.0	2.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Styrene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Bromoform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-7
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-03

Collected By: Whipple, Todd
Collection Date: 09/08/2025 17:40

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1215	RAF
Surrogate: Dibromofluoromethane	98.8	Limit: 75-136	% Rec		09/11/25 0000	09/11/25 1215	RAF
Surrogate: Dibromofluoromethane	98.8	Limit: 57-128	% Rec		09/11/25 0000	09/11/25 1215	RAF
Surrogate: 1,2-Dichloroethane-d4	94.7	Limit: 49-135	% Rec		09/11/25 0000	09/11/25 1215	RAF
Surrogate: 1,2-Dichloroethane-d4	94.7	Limit: 61-142	% Rec		09/11/25 0000	09/11/25 1215	RAF
Surrogate: Toluene-d8	102	Limit: 82-121	% Rec		09/11/25 0000	09/11/25 1215	RAF
Surrogate: Toluene-d8	102	Limit: 82-116	% Rec		09/11/25 0000	09/11/25 1215	RAF
Surrogate: 4-Bromofluorobenzene	96.7	Limit: 80-116	% Rec		09/11/25 0000	09/11/25 1215	RAF
Surrogate: 4-Bromofluorobenzene	96.7	Limit: 77-114	% Rec		09/11/25 0000	09/11/25 1215	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1652	JAR
Arsenic, total	0.0084	0.0020	mg/L		09/11/25 0832	09/11/25 1652	JAR
Barium, total	0.313	0.0010	mg/L		09/11/25 0832	09/11/25 1652	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1652	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/11/25 0832	09/11/25 1652	JAR
Chromium, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1652	JAR
Cobalt, total	0.0092	0.0005	mg/L		09/11/25 0832	09/11/25 1652	JAR
Copper, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1652	JAR
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1652	JAR
Nickel, total	0.0193	0.0050	mg/L		09/11/25 0832	09/11/25 1652	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1652	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1652	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1652	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1652	JAR
Zinc, total	0.0114	0.0050	mg/L		09/11/25 0832	09/11/25 1652	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-10
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-04

Collected By: Whipple, Todd
Collection Date: 09/08/2025 14:39

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Bromomethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Chloroethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Acetone	<10.0	10.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Chloroform	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Benzene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Dibromomethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Toluene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Xylenes, total	<2.0	2.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Styrene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Bromoform	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/15/25 0000	09/15/25 1355	RAF

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-10
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-04

Collected By: Whipple, Todd
Collection Date: 09/08/2025 14:39

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/15/25 0000	09/15/25 1355	RAF
Surrogate: Dibromofluoromethane	99.5	Limit: 75-136	% Rec		09/15/25 0000	09/15/25 1355	RAF
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 61-142	% Rec		09/15/25 0000	09/15/25 1355	RAF
Surrogate: Toluene-d8	102	Limit: 82-121	% Rec		09/15/25 0000	09/15/25 1355	RAF
Surrogate: 4-Bromofluorobenzene	89.0	Limit: 80-116	% Rec		09/15/25 0000	09/15/25 1355	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1655	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1655	JAR
Barium, total	0.402	0.0010	mg/L		09/11/25 0832	09/11/25 1655	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1655	JAR
Cadmium, total	0.0002	0.0002	mg/L		09/11/25 0832	09/11/25 1655	JAR
Chromium, total	0.0011	0.0010	mg/L		09/11/25 0832	09/11/25 1655	JAR
Cobalt, total	0.0008	0.0005	mg/L		09/11/25 0832	09/11/25 1655	JAR
Copper, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1655	JAR
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1655	JAR
Nickel, total	0.0067	0.0050	mg/L		09/11/25 0832	09/11/25 1655	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1655	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1655	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1655	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1655	JAR
Zinc, total	0.0058	0.0050	mg/L		09/11/25 0832	09/11/25 1655	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-13
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-05

Collected By: Whipple, Todd
Collection Date: 09/08/2025 17:17

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Bromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Chloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Acetone	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Chloroform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Benzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Dibromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Toluene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Xylenes, total	<2.0	2.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Styrene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Bromoform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-13
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-05

Collected By: Whipple, Todd
Collection Date: 09/08/2025 17:17

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1238	RAF
Surrogate: Dibromofluoromethane	95.9	Limit: 57-128	% Rec		09/11/25 0000	09/11/25 1238	RAF
Surrogate: Dibromofluoromethane	95.9	Limit: 75-136	% Rec		09/11/25 0000	09/11/25 1238	RAF
Surrogate: 1,2-Dichloroethane-d4	94.4	Limit: 49-135	% Rec		09/11/25 0000	09/11/25 1238	RAF
Surrogate: 1,2-Dichloroethane-d4	94.4	Limit: 61-142	% Rec		09/11/25 0000	09/11/25 1238	RAF
Surrogate: Toluene-d8	98.1	Limit: 82-116	% Rec		09/11/25 0000	09/11/25 1238	RAF
Surrogate: Toluene-d8	98.1	Limit: 82-121	% Rec		09/11/25 0000	09/11/25 1238	RAF
Surrogate: 4-Bromofluorobenzene	92.9	Limit: 77-114	% Rec		09/11/25 0000	09/11/25 1238	RAF
Surrogate: 4-Bromofluorobenzene	92.9	Limit: 80-116	% Rec		09/11/25 0000	09/11/25 1238	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1702	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1702	JAR
Barium, total	0.0519	0.0010	mg/L		09/11/25 0832	09/11/25 1702	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1702	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/11/25 0832	09/11/25 1702	JAR
Chromium, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1702	JAR
Cobalt, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1702	JAR
Copper, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1702	JAR
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1702	JAR
Nickel, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1702	JAR
Selenium, total	0.0023	0.0020	mg/L		09/11/25 0832	09/11/25 1702	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1702	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1702	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1702	JAR
Zinc, total	0.0093	0.0050	mg/L		09/11/25 0832	09/11/25 1702	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-14
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-06

Collected By: Whipple, Todd
Collection Date: 09/08/2025 17:00

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Bromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Chloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Acetone	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Chloroform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Benzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Dibromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Toluene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Xylenes, total	<2.0	2.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Styrene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Bromoform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-14
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-06

Collected By: Whipple, Todd
Collection Date: 09/08/2025 17:00

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1301	RAF
Surrogate: Dibromofluoromethane	96.5	Limit: 57-128	% Rec		09/11/25 0000	09/11/25 1301	RAF
Surrogate: Dibromofluoromethane	96.5	Limit: 75-136	% Rec		09/11/25 0000	09/11/25 1301	RAF
Surrogate: 1,2-Dichloroethane-d4	98.8	Limit: 61-142	% Rec		09/11/25 0000	09/11/25 1301	RAF
Surrogate: 1,2-Dichloroethane-d4	98.8	Limit: 49-135	% Rec		09/11/25 0000	09/11/25 1301	RAF
Surrogate: Toluene-d8	102	Limit: 82-116	% Rec		09/11/25 0000	09/11/25 1301	RAF
Surrogate: Toluene-d8	102	Limit: 82-121	% Rec		09/11/25 0000	09/11/25 1301	RAF
Surrogate: 4-Bromofluorobenzene	92.5	Limit: 80-116	% Rec		09/11/25 0000	09/11/25 1301	RAF
Surrogate: 4-Bromofluorobenzene	92.5	Limit: 77-114	% Rec		09/11/25 0000	09/11/25 1301	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1705	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1705	JAR
Barium, total	0.124	0.0010	mg/L		09/11/25 0832	09/11/25 1705	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1705	JAR
Cadmium, total	0.0068	0.0002	mg/L		09/11/25 0832	09/11/25 1705	JAR
Chromium, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1705	JAR
Cobalt, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1705	JAR
Copper, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1705	JAR
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1705	JAR
Nickel, total	0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1705	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1705	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1705	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1705	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1705	JAR
Zinc, total	0.0084	0.0050	mg/L		09/11/25 0832	09/11/25 1705	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-16
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-07

Collected By: Whipple, Todd
Collection Date: 09/08/2025 16:16

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Bromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Chloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Acetone	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Chloroform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Benzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Dibromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Toluene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Chlorobenzene	4.3	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Xylenes, total	<2.0	2.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Styrene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Bromoform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF

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11I0763

Client Sample ID: MW-16
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-07

Collected By: Whipple, Todd
Collection Date: 09/08/2025 16:16

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
1,4-Dichlorobenzene	1.5	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1324	RAF
Surrogate: Dibromofluoromethane	93.8	Limit: 75-136	% Rec		09/11/25 0000	09/11/25 1324	RAF
Surrogate: Dibromofluoromethane	93.8	Limit: 57-128	% Rec		09/11/25 0000	09/11/25 1324	RAF
Surrogate: 1,2-Dichloroethane-d4	96.7	Limit: 61-142	% Rec		09/11/25 0000	09/11/25 1324	RAF
Surrogate: 1,2-Dichloroethane-d4	96.7	Limit: 49-135	% Rec		09/11/25 0000	09/11/25 1324	RAF
Surrogate: Toluene-d8	99.1	Limit: 82-121	% Rec		09/11/25 0000	09/11/25 1324	RAF
Surrogate: Toluene-d8	99.1	Limit: 82-116	% Rec		09/11/25 0000	09/11/25 1324	RAF
Surrogate: 4-Bromofluorobenzene	95.8	Limit: 80-116	% Rec		09/11/25 0000	09/11/25 1324	RAF
Surrogate: 4-Bromofluorobenzene	95.8	Limit: 77-114	% Rec		09/11/25 0000	09/11/25 1324	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1707	JAR
Arsenic, total	0.0458	0.0020	mg/L		09/11/25 0832	09/11/25 1707	JAR
Barium, total	1.11	0.0010	mg/L		09/11/25 0832	09/11/25 1707	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1707	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/11/25 0832	09/11/25 1707	JAR
Chromium, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1707	JAR
Cobalt, total	0.0019	0.0005	mg/L		09/11/25 0832	09/11/25 1707	JAR
Copper, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1707	JAR
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1707	JAR
Nickel, total	0.0390	0.0050	mg/L		09/11/25 0832	09/11/25 1707	JAR
Selenium, total	0.0030	0.0020	mg/L		09/11/25 0832	09/11/25 1707	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1707	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1707	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1707	JAR
Zinc, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1707	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-17 (b)
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-08

Collected By: Whipple, Todd
Collection Date: 09/08/2025 15:33

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Bromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Chloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Acetone	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Chloroform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Benzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Dibromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Toluene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Xylenes, total	<2.0	2.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Styrene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Bromoform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-17 (b)
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-08

Collected By: Whipple, Todd
Collection Date: 09/08/2025 15:33

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1346	RAF
Surrogate: Dibromofluoromethane	98.8	Limit: 57-128	% Rec		09/11/25 0000	09/11/25 1346	RAF
Surrogate: Dibromofluoromethane	98.8	Limit: 75-136	% Rec		09/11/25 0000	09/11/25 1346	RAF
Surrogate: 1,2-Dichloroethane-d4	96.8	Limit: 49-135	% Rec		09/11/25 0000	09/11/25 1346	RAF
Surrogate: 1,2-Dichloroethane-d4	96.8	Limit: 61-142	% Rec		09/11/25 0000	09/11/25 1346	RAF
Surrogate: Toluene-d8	100	Limit: 82-116	% Rec		09/11/25 0000	09/11/25 1346	RAF
Surrogate: Toluene-d8	100	Limit: 82-121	% Rec		09/11/25 0000	09/11/25 1346	RAF
Surrogate: 4-Bromofluorobenzene	96.1	Limit: 80-116	% Rec		09/11/25 0000	09/11/25 1346	RAF
Surrogate: 4-Bromofluorobenzene	96.1	Limit: 77-114	% Rec		09/11/25 0000	09/11/25 1346	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1710	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1710	JAR
Barium, total	0.0841	0.0010	mg/L		09/11/25 0832	09/11/25 1710	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1710	JAR
Cadmium, total	0.0003	0.0002	mg/L		09/11/25 0832	09/11/25 1710	JAR
Chromium, total	0.0012	0.0010	mg/L		09/11/25 0832	09/11/25 1710	JAR
Cobalt, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1710	JAR
Copper, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1710	JAR
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1710	JAR
Nickel, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1710	JAR
Selenium, total	0.0027	0.0020	mg/L		09/11/25 0832	09/11/25 1710	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1710	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1710	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1710	JAR
Zinc, total	0.0073	0.0050	mg/L		09/11/25 0832	09/11/25 1710	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-18
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-09

Collected By: Whipple, Todd
Collection Date: 09/08/2025 16:04

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Bromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Chloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Acetone	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Chloroform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Benzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Dibromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Toluene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Xylenes, total	<2.0	2.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Styrene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Bromoform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-18
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-09

Collected By: Whipple, Todd
Collection Date: 09/08/2025 16:04

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1409	RAF
Surrogate: Dibromofluoromethane	94.6	Limit: 75-136	% Rec		09/11/25 0000	09/11/25 1409	RAF
Surrogate: Dibromofluoromethane	94.6	Limit: 57-128	% Rec		09/11/25 0000	09/11/25 1409	RAF
Surrogate: 1,2-Dichloroethane-d4	95.5	Limit: 61-142	% Rec		09/11/25 0000	09/11/25 1409	RAF
Surrogate: 1,2-Dichloroethane-d4	95.5	Limit: 49-135	% Rec		09/11/25 0000	09/11/25 1409	RAF
Surrogate: Toluene-d8	100	Limit: 82-121	% Rec		09/11/25 0000	09/11/25 1409	RAF
Surrogate: Toluene-d8	100	Limit: 82-116	% Rec		09/11/25 0000	09/11/25 1409	RAF
Surrogate: 4-Bromofluorobenzene	89.4	Limit: 80-116	% Rec		09/11/25 0000	09/11/25 1409	RAF
Surrogate: 4-Bromofluorobenzene	89.4	Limit: 77-114	% Rec		09/11/25 0000	09/11/25 1409	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1712	JAR
Arsenic, total	0.0403	0.0020	mg/L		09/11/25 0832	09/11/25 1712	JAR
Barium, total	0.539	0.0010	mg/L		09/11/25 0832	09/11/25 1712	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1712	JAR
Cadmium, total	0.0002	0.0002	mg/L		09/11/25 0832	09/11/25 1712	JAR
Chromium, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1712	JAR
Cobalt, total	0.0012	0.0005	mg/L		09/11/25 0832	09/11/25 1712	JAR
Copper, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1712	JAR
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1712	JAR
Nickel, total	0.0057	0.0050	mg/L		09/11/25 0832	09/11/25 1712	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1712	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1712	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1712	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1712	JAR
Zinc, total	0.0148	0.0050	mg/L		09/11/25 0832	09/11/25 1712	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-19R
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-10

Collected By: Whipple, Todd
Collection Date: 09/08/2025 17:27

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Bromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Chloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Acetone	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
1,1-Dichloroethane	2.7	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
cis-1,2-Dichloroethylene	2.4	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Chloroform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Benzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Dibromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Toluene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Xylenes, total	<2.0	2.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Styrene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Bromoform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-19R
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-10

Collected By: Whipple, Todd
Collection Date: 09/08/2025 17:27

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1432	RAF
Surrogate: Dibromofluoromethane	96.9	Limit: 75-136	% Rec		09/11/25 0000	09/11/25 1432	RAF
Surrogate: Dibromofluoromethane	96.9	Limit: 57-128	% Rec		09/11/25 0000	09/11/25 1432	RAF
Surrogate: 1,2-Dichloroethane-d4	96.9	Limit: 49-135	% Rec		09/11/25 0000	09/11/25 1432	RAF
Surrogate: 1,2-Dichloroethane-d4	96.9	Limit: 61-142	% Rec		09/11/25 0000	09/11/25 1432	RAF
Surrogate: Toluene-d8	99.2	Limit: 82-116	% Rec		09/11/25 0000	09/11/25 1432	RAF
Surrogate: Toluene-d8	99.2	Limit: 82-121	% Rec		09/11/25 0000	09/11/25 1432	RAF
Surrogate: 4-Bromofluorobenzene	94.8	Limit: 77-114	% Rec		09/11/25 0000	09/11/25 1432	RAF
Surrogate: 4-Bromofluorobenzene	94.8	Limit: 80-116	% Rec		09/11/25 0000	09/11/25 1432	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1715	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1715	JAR
Barium, total	0.226	0.0010	mg/L		09/11/25 0832	09/11/25 1715	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1715	JAR
Cadmium, total	0.0002	0.0002	mg/L		09/11/25 0832	09/11/25 1715	JAR
Chromium, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1715	JAR
Cobalt, total	0.0007	0.0005	mg/L		09/11/25 0832	09/11/25 1715	JAR
Copper, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1715	JAR
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1715	JAR
Nickel, total	0.0057	0.0050	mg/L		09/11/25 0832	09/11/25 1715	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1715	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1715	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1715	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1715	JAR
Zinc, total	0.0101	0.0050	mg/L		09/11/25 0832	09/11/25 1715	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-20
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-11

Collected By: Whipple, Todd
Collection Date: 09/08/2025 17:54

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Bromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Chloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Acetone	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Chloroform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Benzene	1.2	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Dibromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Toluene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Chlorobenzene	1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Xylenes, total	<2.0	2.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Styrene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Bromoform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-20
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-11

Collected By: Whipple, Todd
Collection Date: 09/08/2025 17:54

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1455	RAF
Surrogate: Dibromofluoromethane	100	Limit: 75-136	% Rec		09/11/25 0000	09/11/25 1455	RAF
Surrogate: Dibromofluoromethane	100	Limit: 57-128	% Rec		09/11/25 0000	09/11/25 1455	RAF
Surrogate: 1,2-Dichloroethane-d4	99.8	Limit: 61-142	% Rec		09/11/25 0000	09/11/25 1455	RAF
Surrogate: 1,2-Dichloroethane-d4	99.8	Limit: 49-135	% Rec		09/11/25 0000	09/11/25 1455	RAF
Surrogate: Toluene-d8	97.8	Limit: 82-121	% Rec		09/11/25 0000	09/11/25 1455	RAF
Surrogate: Toluene-d8	97.8	Limit: 82-116	% Rec		09/11/25 0000	09/11/25 1455	RAF
Surrogate: 4-Bromofluorobenzene	90.8	Limit: 80-116	% Rec		09/11/25 0000	09/11/25 1455	RAF
Surrogate: 4-Bromofluorobenzene	90.8	Limit: 77-114	% Rec		09/11/25 0000	09/11/25 1455	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1717	JAR
Arsenic, total	0.0597	0.0020	mg/L		09/11/25 0832	09/11/25 1717	JAR
Barium, total	1.86	0.0010	mg/L		09/11/25 0832	09/11/25 1717	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1717	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/11/25 0832	09/11/25 1717	JAR
Chromium, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1717	JAR
Cobalt, total	0.0030	0.0005	mg/L		09/11/25 0832	09/11/25 1717	JAR
Copper, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1717	JAR
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1717	JAR
Nickel, total	0.0104	0.0050	mg/L		09/11/25 0832	09/11/25 1717	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1717	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1717	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1717	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1717	JAR
Zinc, total	0.0070	0.0050	mg/L		09/11/25 0832	09/11/25 1717	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: GWD-1
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-12

Collected By: Whipple, Todd
Collection Date: 09/08/2025 16:32

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Bromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Chloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Acetone	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Chloroform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Benzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Dibromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Toluene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Xylenes, total	<2.0	2.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Styrene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Bromoform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: GWD-1
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-12

Collected By: Whipple, Todd
Collection Date: 09/08/2025 16:32

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1518	RAF
Surrogate: Dibromofluoromethane	96.0	Limit: 75-136	% Rec		09/11/25 0000	09/11/25 1518	RAF
Surrogate: Dibromofluoromethane	96.0	Limit: 57-128	% Rec		09/11/25 0000	09/11/25 1518	RAF
Surrogate: 1,2-Dichloroethane-d4	100	Limit: 61-142	% Rec		09/11/25 0000	09/11/25 1518	RAF
Surrogate: 1,2-Dichloroethane-d4	100	Limit: 49-135	% Rec		09/11/25 0000	09/11/25 1518	RAF
Surrogate: Toluene-d8	97.9	Limit: 82-116	% Rec		09/11/25 0000	09/11/25 1518	RAF
Surrogate: Toluene-d8	97.9	Limit: 82-121	% Rec		09/11/25 0000	09/11/25 1518	RAF
Surrogate: 4-Bromofluorobenzene	92.9	Limit: 80-116	% Rec		09/11/25 0000	09/11/25 1518	RAF
Surrogate: 4-Bromofluorobenzene	92.9	Limit: 77-114	% Rec		09/11/25 0000	09/11/25 1518	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1720	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1720	JAR
Barium, total	0.253	0.0010	mg/L		09/11/25 0832	09/11/25 1720	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1720	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/11/25 0832	09/11/25 1720	JAR
Chromium, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1720	JAR
Cobalt, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1720	JAR
Copper, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1720	JAR
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1720	JAR
Nickel, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1720	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1720	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1720	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1720	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1720	JAR
Zinc, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1720	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: Duplicate
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-13

Collected By: Whipple, Todd
Collection Date: 09/08/2025

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1722	JAR
Arsenic, total	0.0448	0.0020	mg/L		09/11/25 0832	09/11/25 1722	JAR
Barium, total	1.05	0.0010	mg/L		09/11/25 0832	09/11/25 1722	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1722	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/11/25 0832	09/11/25 1722	JAR
Chromium, total	0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1722	JAR
Cobalt, total	0.0018	0.0005	mg/L		09/11/25 0832	09/11/25 1722	JAR
Copper, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1722	JAR
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1722	JAR
Nickel, total	0.0365	0.0050	mg/L		09/11/25 0832	09/11/25 1722	JAR
Selenium, total	0.0026	0.0020	mg/L		09/11/25 0832	09/11/25 1722	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1722	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1722	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1722	JAR
Zinc, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1722	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-44 (b)
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-14

Collected By: Whipple, Todd
Collection Date: 09/08/2025 15:20

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Bromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Chloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Acetone	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Chloroform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Benzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Dibromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Toluene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Xylenes, total	<2.0	2.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Styrene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Bromoform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-44 (b)
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-14

Collected By: Whipple, Todd
Collection Date: 09/08/2025 15:20

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1541	RAF
Surrogate: Dibromofluoromethane	98.2	Limit: 57-128	% Rec		09/11/25 0000	09/11/25 1541	RAF
Surrogate: Dibromofluoromethane	98.2	Limit: 75-136	% Rec		09/11/25 0000	09/11/25 1541	RAF
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 49-135	% Rec		09/11/25 0000	09/11/25 1541	RAF
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 61-142	% Rec		09/11/25 0000	09/11/25 1541	RAF
Surrogate: Toluene-d8	96.4	Limit: 82-116	% Rec		09/11/25 0000	09/11/25 1541	RAF
Surrogate: Toluene-d8	96.4	Limit: 82-121	% Rec		09/11/25 0000	09/11/25 1541	RAF
Surrogate: 4-Bromofluorobenzene	93.6	Limit: 77-114	% Rec		09/11/25 0000	09/11/25 1541	RAF
Surrogate: 4-Bromofluorobenzene	93.6	Limit: 80-116	% Rec		09/11/25 0000	09/11/25 1541	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1725	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1725	JAR
Barium, total	0.126	0.0010	mg/L		09/11/25 0832	09/11/25 1725	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1725	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/11/25 0832	09/11/25 1725	JAR
Chromium, total	0.0018	0.0010	mg/L		09/11/25 0832	09/11/25 1725	JAR
Cobalt, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1725	JAR
Copper, total	<0.0050	0.0050	mg/L		09/30/25 1435	10/01/25 2009	RVV
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1725	JAR
Nickel, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1725	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1725	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1725	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1725	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1725	JAR
Zinc, total	0.0058	0.0050	mg/L		09/11/25 0832	09/11/25 1725	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-53
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-15

Collected By: Whipple, Todd
Collection Date: 09/08/2025 18:07

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Bromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Chloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Acetone	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Chloroform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Benzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Dibromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Toluene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Xylenes, total	<2.0	2.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Styrene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Bromoform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: MW-53
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-15

Collected By: Whipple, Todd
Collection Date: 09/08/2025 18:07

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1604	RAF
Surrogate: Dibromofluoromethane	96.5	Limit: 57-128	% Rec		09/11/25 0000	09/11/25 1604	RAF
Surrogate: Dibromofluoromethane	96.5	Limit: 75-136	% Rec		09/11/25 0000	09/11/25 1604	RAF
Surrogate: 1,2-Dichloroethane-d4	96.5	Limit: 61-142	% Rec		09/11/25 0000	09/11/25 1604	RAF
Surrogate: 1,2-Dichloroethane-d4	96.5	Limit: 49-135	% Rec		09/11/25 0000	09/11/25 1604	RAF
Surrogate: Toluene-d8	96.2	Limit: 82-116	% Rec		09/11/25 0000	09/11/25 1604	RAF
Surrogate: Toluene-d8	96.2	Limit: 82-121	% Rec		09/11/25 0000	09/11/25 1604	RAF
Surrogate: 4-Bromofluorobenzene	92.3	Limit: 77-114	% Rec		09/11/25 0000	09/11/25 1604	RAF
Surrogate: 4-Bromofluorobenzene	92.3	Limit: 80-116	% Rec		09/11/25 0000	09/11/25 1604	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1732	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1732	JAR
Barium, total	0.0895	0.0010	mg/L		09/11/25 0832	09/11/25 1732	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1732	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/11/25 0832	09/11/25 1732	JAR
Chromium, total	0.0014	0.0010	mg/L		09/11/25 0832	09/11/25 1732	JAR
Cobalt, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1732	JAR
Copper, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1732	JAR
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1732	JAR
Nickel, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1732	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1732	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1732	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1732	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1732	JAR
Zinc, total	0.0063	0.0050	mg/L		09/11/25 0832	09/11/25 1732	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: GWD-3
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-16

Collected By: Whipple, Todd
Collection Date: 09/08/2025 18:30

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Bromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Chloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Acetone	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Chloroform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Benzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Dibromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Toluene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Xylenes, total	<2.0	2.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Styrene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Bromoform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: GWD-3
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-16

Collected By: Whipple, Todd
Collection Date: 09/08/2025 18:30

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1627	RAF
Surrogate: Dibromofluoromethane	99.1	Limit: 57-128	% Rec		09/11/25 0000	09/11/25 1627	RAF
Surrogate: Dibromofluoromethane	99.1	Limit: 75-136	% Rec		09/11/25 0000	09/11/25 1627	RAF
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 61-142	% Rec		09/11/25 0000	09/11/25 1627	RAF
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 49-135	% Rec		09/11/25 0000	09/11/25 1627	RAF
Surrogate: Toluene-d8	99.9	Limit: 82-116	% Rec		09/11/25 0000	09/11/25 1627	RAF
Surrogate: Toluene-d8	99.9	Limit: 82-121	% Rec		09/11/25 0000	09/11/25 1627	RAF
Surrogate: 4-Bromofluorobenzene	92.9	Limit: 80-116	% Rec		09/11/25 0000	09/11/25 1627	RAF
Surrogate: 4-Bromofluorobenzene	92.9	Limit: 77-114	% Rec		09/11/25 0000	09/11/25 1627	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1622	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1622	JAR
Barium, total	0.306	0.0010	mg/L		09/11/25 0832	09/11/25 1622	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1622	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/11/25 0832	09/11/25 1622	JAR
Chromium, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1622	JAR
Cobalt, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1622	JAR
Copper, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1622	JAR
Lead, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1622	JAR
Nickel, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1622	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1622	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1622	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1622	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1622	JAR
Zinc, total	0.370	0.0050	mg/L		09/11/25 0832	09/11/25 1622	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: GWD-4
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-17

Collected By: Whipple, Todd
Collection Date: 09/08/2025 18:35

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Bromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Chloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Acetone	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Chloroform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Benzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Dibromomethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Toluene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Xylenes, total	<2.0	2.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Styrene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Bromoform	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF

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CERTIFICATE OF ANALYSIS

11I0763

Client Sample ID: GWD-4
Sample Matrix: Aqueous
Lab Sample ID: 11I0763-17

Collected By: Whipple, Todd
Collection Date: 09/08/2025 18:35

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/11/25 0000	09/11/25 1649	RAF
Surrogate: Dibromofluoromethane	93.6	Limit: 57-128	% Rec		09/11/25 0000	09/11/25 1649	RAF
Surrogate: Dibromofluoromethane	93.6	Limit: 75-136	% Rec		09/11/25 0000	09/11/25 1649	RAF
Surrogate: 1,2-Dichloroethane-d4	95.6	Limit: 61-142	% Rec		09/11/25 0000	09/11/25 1649	RAF
Surrogate: 1,2-Dichloroethane-d4	95.6	Limit: 49-135	% Rec		09/11/25 0000	09/11/25 1649	RAF
Surrogate: Toluene-d8	100	Limit: 82-116	% Rec		09/11/25 0000	09/11/25 1649	RAF
Surrogate: Toluene-d8	100	Limit: 82-121	% Rec		09/11/25 0000	09/11/25 1649	RAF
Surrogate: 4-Bromofluorobenzene	91.1	Limit: 80-116	% Rec		09/11/25 0000	09/11/25 1649	RAF
Surrogate: 4-Bromofluorobenzene	91.1	Limit: 77-114	% Rec		09/11/25 0000	09/11/25 1649	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1637	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1637	JAR
Barium, total	0.353	0.0010	mg/L		09/11/25 0832	09/11/25 1637	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1637	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/11/25 0832	09/11/25 1637	JAR
Chromium, total	0.0025	0.0010	mg/L		09/11/25 0832	09/11/25 1637	JAR
Cobalt, total	0.0007	0.0005	mg/L		09/11/25 0832	09/11/25 1637	JAR
Copper, total	<0.0050	0.0050	mg/L		09/30/25 1435	10/01/25 2025	RVV
Lead, total	0.0010	0.0010	mg/L		09/11/25 0832	09/11/25 1637	JAR
Nickel, total	0.0077	0.0050	mg/L		09/11/25 0832	09/11/25 1637	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/11/25 0832	09/11/25 1637	JAR
Silver, total	<0.0050	0.0050	mg/L		09/11/25 0832	09/11/25 1637	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/11/25 0832	09/11/25 1637	JAR
Vanadium, total	0.0030	0.0020	mg/L		09/11/25 0832	09/11/25 1637	JAR
Zinc, total	0.128	0.0050	mg/L		09/11/25 0832	09/11/25 1637	JAR

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CERTIFICATE OF ANALYSIS

11I0763

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	11I0634	11I0634-BLK1	
		11I0634-BS1	
		11I0763-16	GWD-3
		11I0634-MS1	11I0730-16
		11I0634-MSD1	11I0730-16
		11I0634-PS1	11I0730-16
		11I0763-17	GWD-4
		11I0763-01	MW-1D
		11I0763-02	MW-3
		11I0763-03	MW-7
		11I0763-04	MW-10
		11I0763-05	MW-13
		11I0763-06	MW-14
		11I0763-07	MW-16
		11I0763-08	MW-17 (b)
		11I0763-09	MW-18
		11I0763-10	MW-19R
		11I0763-11	MW-20
		11I0763-12	GWD-1
		11I0763-13	Duplicate
		11I0763-14	MW-44 (b)
		11I0763-15	MW-53

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	11I0699	11I0699-BS1	
		11I0699-BSD1	
		11I0699-BLK1	
		11I0763-01	MW-1D
		11I0763-02	MW-3
		11I0763-03	MW-7
		11I0763-05	MW-13
		11I0763-06	MW-14
		11I0763-07	MW-16
		11I0763-08	MW-17 (b)
		11I0763-09	MW-18
		11I0763-10	MW-19R
		11I0763-11	MW-20
		11I0763-12	GWD-1
		11I0763-14	MW-44 (b)
		11I0763-15	MW-53
		11I0763-16	GWD-3
		11I0763-17	GWD-4
		11I0699-MS1	11I0763-01
		11I0699-MSD1	11I0763-01

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	11I0883	11I0883-BS1	
		11I0883-BSD1	
		11I0883-BLK1	
		11I0763-04	MW-10
		11I0883-MS1	11I1028-18

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CERTIFICATE OF ANALYSIS

11I0763

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	11I0883	11I0883-MSD1	11I1028-18
Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	11I1723	11I1723-BLK1	
		11I1723-BS1	
		11I0763-14RE1	MW-44 (b)
		11I1723-MS1	11I0763-14RE1
		11I1723-MSD1	11I0763-14RE1
		11I1723-PS1	11I0763-14RE1
		11I0763-17RE1	GWD-4

Batch Quality Control Summary: Microbac Laboratories, Inc., Newton

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0699 - EPA 5030B - EPA 8260D										
Blank (11I0699-BLK1)				Prepared: 09/11/25 00:00 Analyzed: 09/11/25 10:24						
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							

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CERTIFICATE OF ANALYSIS

11I0763

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0699 - EPA 5030B - EPA 8260D										
Blank (11I0699-BLK1)										
Prepared: 09/11/25 00:00 Analyzed: 09/11/25 10:24										
Tetrachloroethylene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	46.9		ug/L	50.2		93.5	75-136			
Surrogate: Dibromofluoromethane	46.9		ug/L	50.2		93.5	57-128			
Surrogate: 1,2-Dichloroethane-d4	48.7		ug/L	50.4		96.6	61-142			
Surrogate: 1,2-Dichloroethane-d4	48.7		ug/L	50.4		96.6	49-135			
Surrogate: Toluene-d8	50.3		ug/L	50.5		99.7	82-121			
Surrogate: Toluene-d8	50.3		ug/L	50.5		99.7	82-116			
Surrogate: 4-Bromofluorobenzene	47.6		ug/L	50.2		94.8	80-116			
Surrogate: 4-Bromofluorobenzene	47.6		ug/L	50.2		94.8	77-114			
LCS (11I0699-BS1)										
Prepared: 09/11/25 00:00 Analyzed: 09/11/25 09:15										
Chloromethane	29.87	1.0	ug/L	30.3		98.5	63-155			
Vinyl Chloride	33.85	1.0	ug/L	30.2		112	70-154			
Bromomethane	28.08	1.0	ug/L	30.1		93.2	52-176			
Chloroethane	30.60	1.0	ug/L	30.3		101	72-148			
Trichlorofluoromethane	30.33	1.0	ug/L	30.3		100	70-152			
1,1-Dichloroethylene	52.61	1.0	ug/L	50.1		105	70-148			
Acetone	90.04	10.0	ug/L	100		90.0	43-172			
Methyl Iodide	112.8	1.0	ug/L	100		113	69-170			
Carbon Disulfide	108.2	1.0	ug/L	100		108	72-162			
Methylene Chloride	48.25	5.0	ug/L	50.1		96.3	68-142			
Acrylonitrile	88.93	5.0	ug/L	50.4		177	33-163			Q2
trans-1,2-Dichloroethylene	48.88	1.0	ug/L	50.1		97.6	66-148			
1,1-Dichloroethane	52.05	1.0	ug/L	50.1		104	66-143			
Vinyl Acetate	174.8	5.0	ug/L	131		133	43-153			
cis-1,2-Dichloroethylene	49.78	1.0	ug/L	50.4		98.9	71-149			
2-Butanone (MEK)	102.0	10.0	ug/L	100		102	52-159			
Bromochloromethane	48.86	1.0	ug/L	50.4		96.9	69-143			
Chloroform	48.51	1.0	ug/L	50.1		96.9	69-144			

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CERTIFICATE OF ANALYSIS

11I0763

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0699 - EPA 5030B - EPA 8260D										
LCS (11I0699-BS1)										
Prepared: 09/11/25 00:00 Analyzed: 09/11/25 09:15										
1,1,1-Trichloroethane	51.81	1.0	ug/L	50.1		103	62-129			
Carbon Tetrachloride	51.54	1.0	ug/L	50.1		103	63-141			
Benzene	50.16	1.0	ug/L	50.4		99.5	71-134			
1,2-Dichloroethane	51.80	1.0	ug/L	50.1		103	72-132			
Trichloroethylene	51.73	1.0	ug/L	50.1		103	71-135			
1,2-Dichloropropane	50.69	1.0	ug/L	50.1		101	69-136			
Dibromomethane	48.27	1.0	ug/L	50.4		95.8	73-147			
Bromodichloromethane	49.99	1.0	ug/L	50.1		99.8	68-129			
cis-1,3-Dichloropropene	50.21	1.0	ug/L	50.1		100	65-134			
4-Methyl-2-pentanone (MIBK)	103.2	5.0	ug/L	100		103	58-147			
Toluene	48.81	1.0	ug/L	50.5		96.7	72-133			
trans-1,3-Dichloropropene	54.80	1.0	ug/L	50.1		109	67-130			
1,1,2-Trichloroethane	48.54	1.0	ug/L	50.1		96.9	69-135			
Tetrachloroethylene	51.79	1.0	ug/L	50.1		103	69-130			
2-Hexanone (MBK)	100.5	5.0	ug/L	100		100	55-144			
Dibromochloromethane	51.15	1.0	ug/L	50.1		102	73-127			
1,2-Dibromoethane	52.35	1.0	ug/L	50.2		104	67-132			
Chlorobenzene	48.79	1.0	ug/L	50.1		97.4	72-123			
1,1,1,2-Tetrachloroethane	50.96	1.0	ug/L	50.3		101	73-127			
Ethylbenzene	49.96	1.0	ug/L	50.2		99.6	71-127			
Xylenes, total	151.0	2.0	ug/L	151		100	74-127			
Styrene	52.88	1.0	ug/L	50.4		105	66-126			
Bromoform	56.18	1.0	ug/L	50.1		112	68-130			
1,2,3-Trichloropropane	51.58	1.0	ug/L	50.3		102	63-136			
trans-1,4-Dichloro-2-butene	112.6	5.0	ug/L	100		113	54-134			
1,1,2,2-Tetrachloroethane	49.30	1.0	ug/L	50.1		98.4	61-131			
1,4-Dichlorobenzene	45.89	1.0	ug/L	50.1		91.6	70-129			
1,2-Dichlorobenzene	48.89	1.0	ug/L	50.1		97.6	69-126			
1,2-Dibromo-3-chloropropane	52.18	5.0	ug/L	50.1		104	50-143			
Surrogate: Dibromofluoromethane	47.9		ug/L	50.2		95.5	75-136			
Surrogate: Dibromofluoromethane	47.9		ug/L	50.2		95.5	57-128			
Surrogate: 1,2-Dichloroethane-d4	50.0		ug/L	50.4		99.3	61-142			
Surrogate: 1,2-Dichloroethane-d4	50.0		ug/L	50.4		99.3	49-135			
Surrogate: Toluene-d8	49.4		ug/L	50.5		97.8	82-121			
Surrogate: Toluene-d8	49.4		ug/L	50.5		97.8	82-116			
Surrogate: 4-Bromofluorobenzene	51.9		ug/L	50.2		103	80-116			
Surrogate: 4-Bromofluorobenzene	51.9		ug/L	50.2		103	77-114			
LCS Dup (11I0699-BSD1)										
Prepared: 09/11/25 00:00 Analyzed: 09/11/25 09:38										
Chloromethane	31.72	1.0	ug/L	30.3		105	63-155	6.01	24	
Vinyl Chloride	35.73	1.0	ug/L	30.2		118	70-154	5.40	25	
Bromomethane	25.77	1.0	ug/L	30.1		85.6	52-176	8.58	27	
Chloroethane	29.84	1.0	ug/L	30.3		98.4	72-148	2.51	25	
Trichlorofluoromethane	32.15	1.0	ug/L	30.3		106	70-152	5.83	26	

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CERTIFICATE OF ANALYSIS

11I0763

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0699 - EPA 5030B - EPA 8260D										
LCS Dup (11I0699-BSD1)				Prepared: 09/11/25 00:00 Analyzed: 09/11/25 09:38						
1,1-Dichloroethylene	55.93	1.0	ug/L	50.1		112	70-148	6.12	24	
Acetone	90.50	10.0	ug/L	100		90.5	43-172	0.510	30	
Methyl Iodide	122.1	1.0	ug/L	100		122	69-170	7.89	30	
Carbon Disulfide	112.8	1.0	ug/L	100		113	72-162	4.13	24	
Methylene Chloride	50.98	5.0	ug/L	50.1		102	68-142	5.50	21	
Acrylonitrile	93.37	5.0	ug/L	50.4		185	33-163	4.87	28	Q2
trans-1,2-Dichloroethylene	52.87	1.0	ug/L	50.1		106	66-148	7.84	27	
1,1-Dichloroethane	55.04	1.0	ug/L	50.1		110	66-143	5.58	24	
Vinyl Acetate	189.5	5.0	ug/L	131		145	43-153	8.05	30	
cis-1,2-Dichloroethylene	51.06	1.0	ug/L	50.4		101	71-149	2.54	26	
2-Butanone (MEK)	105.7	10.0	ug/L	100		106	52-159	3.57	27	
Bromochloromethane	53.08	1.0	ug/L	50.4		105	69-143	8.28	23	
Chloroform	52.60	1.0	ug/L	50.1		105	69-144	8.09	23	
1,1,1-Trichloroethane	52.98	1.0	ug/L	50.1		106	62-129	2.23	24	
Carbon Tetrachloride	54.34	1.0	ug/L	50.1		108	63-141	5.29	25	
Benzene	51.57	1.0	ug/L	50.4		102	71-134	2.77	24	
1,2-Dichloroethane	54.62	1.0	ug/L	50.1		109	72-132	5.30	24	
Trichloroethylene	54.49	1.0	ug/L	50.1		109	71-135	5.20	24	
1,2-Dichloropropane	52.56	1.0	ug/L	50.1		105	69-136	3.62	24	
Dibromomethane	50.69	1.0	ug/L	50.4		101	73-147	4.89	25	
Bromodichloromethane	53.53	1.0	ug/L	50.1		107	68-129	6.84	22	
cis-1,3-Dichloropropene	55.30	1.0	ug/L	50.1		110	65-134	9.65	23	
4-Methyl-2-pentanone (MIBK)	107.5	5.0	ug/L	100		108	58-147	4.13	27	
Toluene	50.57	1.0	ug/L	50.5		100	72-133	3.54	24	
trans-1,3-Dichloropropene	59.14	1.0	ug/L	50.1		118	67-130	7.62	24	
1,1,2-Trichloroethane	52.70	1.0	ug/L	50.1		105	69-135	8.22	23	
Tetrachloroethylene	55.21	1.0	ug/L	50.1		110	69-130	6.39	25	
2-Hexanone (MBK)	110.5	5.0	ug/L	100		110	55-144	9.46	25	
Dibromochloromethane	55.17	1.0	ug/L	50.1		110	73-127	7.56	22	
1,2-Dibromoethane	58.60	1.0	ug/L	50.2		117	67-132	11.3	24	
Chlorobenzene	54.06	1.0	ug/L	50.1		108	72-123	10.2	23	
1,1,1,2-Tetrachloroethane	56.63	1.0	ug/L	50.3		112	73-127	10.5	24	
Ethylbenzene	53.03	1.0	ug/L	50.2		106	71-127	5.96	26	
Xylenes, total	161.3	2.0	ug/L	151		107	74-127	6.57	25	
Styrene	56.22	1.0	ug/L	50.4		112	66-126	6.12	23	
Bromoform	60.81	1.0	ug/L	50.1		121	68-130	7.92	23	
1,2,3-Trichloropropane	55.90	1.0	ug/L	50.3		111	63-136	8.04	24	
trans-1,4-Dichloro-2-butene	114.8	5.0	ug/L	100		115	54-134	1.96	27	
1,1,2,2-Tetrachloroethane	49.01	1.0	ug/L	50.1		97.8	61-131	0.590	29	
1,4-Dichlorobenzene	48.24	1.0	ug/L	50.1		96.2	70-129	4.99	24	
1,2-Dichlorobenzene	50.55	1.0	ug/L	50.1		101	69-126	3.34	26	
1,2-Dibromo-3-chloropropane	53.87	5.0	ug/L	50.1		107	50-143	3.19	30	

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CERTIFICATE OF ANALYSIS

11I0763

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0699 - EPA 5030B - EPA 8260D										
LCS Dup (11I0699-BSD1)				Prepared: 09/11/25 00:00 Analyzed: 09/11/25 09:38						
Surrogate: Dibromofluoromethane	49.9		ug/L	50.2		99.5	75-136			
Surrogate: Dibromofluoromethane	49.9		ug/L	50.2		99.5	57-128			
Surrogate: 1,2-Dichloroethane-d4	52.3		ug/L	50.4		104	61-142			
Surrogate: 1,2-Dichloroethane-d4	52.3		ug/L	50.4		104	49-135			
Surrogate: Toluene-d8	50.1		ug/L	50.5		99.4	82-121			
Surrogate: Toluene-d8	50.1		ug/L	50.5		99.4	82-116			
Surrogate: 4-Bromofluorobenzene	51.8		ug/L	50.2		103	80-116			
Surrogate: 4-Bromofluorobenzene	51.8		ug/L	50.2		103	77-114			
Matrix Spike (11I0699-MS1)				Source: 11I0763-01 Prepared: 09/11/25 00:00 Analyzed: 09/11/25 19:06						
Chloromethane	300.2	10.0	ug/L	303	ND	99.0	61-152			
Vinyl Chloride	279.0	10.0	ug/L	302	ND	92.2	66-149			
Bromomethane	310.9	10.0	ug/L	301	ND	103	43-171			
Chloroethane	284.2	10.0	ug/L	303	ND	93.7	69-148			
Trichlorofluoromethane	311.8	10.0	ug/L	303	ND	103	62-163			
1,1-Dichloroethylene	513.4	10.0	ug/L	501	ND	102	70-148			
Acetone	913.9	100	ug/L	1000	ND	91.4	45-173			
Methyl Iodide	754.6	10.0	ug/L	1000	ND	75.5	62-167			
Carbon Disulfide	969.1	10.0	ug/L	1000	ND	96.9	71-163			
Methylene Chloride	486.2	50.0	ug/L	501	ND	97.0	69-140			
Acrylonitrile	901.4	50.0	ug/L	504	ND	179	32-159			M1
trans-1,2-Dichloroethylene	477.1	10.0	ug/L	501	ND	95.3	69-144			
1,1-Dichloroethane	517.1	10.0	ug/L	501	ND	103	70-138			
Vinyl Acetate	1593	50.0	ug/L	1310	ND	122	58-142			
cis-1,2-Dichloroethylene	492.3	10.0	ug/L	504	ND	97.8	68-151			
2-Butanone (MEK)	1091	100	ug/L	1000	ND	109	50-160			
Bromochloromethane	490.7	10.0	ug/L	504	ND	97.4	65-143			
Chloroform	498.8	10.0	ug/L	501	ND	99.6	71-143			
1,1,1-Trichloroethane	516.5	10.0	ug/L	501	ND	103	63-133			
Carbon Tetrachloride	521.8	10.0	ug/L	501	ND	104	63-142			
Benzene	496.2	10.0	ug/L	504	ND	98.4	69-133			
1,2-Dichloroethane	503.7	10.0	ug/L	501	ND	101	63-138			
Trichloroethylene	521.5	10.0	ug/L	501	ND	104	71-133			
1,2-Dichloropropane	519.9	10.0	ug/L	501	ND	104	69-132			
Dibromomethane	502.3	10.0	ug/L	504	ND	99.7	70-147			
Bromodichloromethane	511.2	10.0	ug/L	501	ND	102	67-130			
cis-1,3-Dichloropropene	508.4	10.0	ug/L	501	ND	102	61-126			
4-Methyl-2-pentanone (MIBK)	1002	50.0	ug/L	1000	ND	100	55-147			
Toluene	493.6	10.0	ug/L	505	ND	97.8	71-133			
trans-1,3-Dichloropropene	569.1	10.0	ug/L	501	ND	114	63-124			
1,1,2-Trichloroethane	487.5	10.0	ug/L	501	ND	97.3	69-133			
Tetrachloroethylene	547.4	10.0	ug/L	501	ND	109	70-124			
2-Hexanone (MBK)	1018	50.0	ug/L	1000	ND	102	53-141			
Dibromochloromethane	517.9	10.0	ug/L	501	ND	103	74-122			

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0699 - EPA 5030B - EPA 8260D										
Matrix Spike (11I0699-MS1)	Source: 11I0763-01			Prepared: 09/11/25 00:00 Analyzed: 09/11/25 19:06						
1,2-Dibromoethane	523.5	10.0	ug/L	502	ND	104	66-127			
Chlorobenzene	521.4	10.0	ug/L	501	ND	104	76-116			
1,1,1,2-Tetrachloroethane	520.6	10.0	ug/L	503	ND	103	77-121			
Ethylbenzene	508.9	10.0	ug/L	502	ND	101	73-124			
Xylenes, total	1564	20.0	ug/L	1510	ND	104	75-123			
Styrene	529.6	10.0	ug/L	504	ND	105	70-120			
Bromoform	579.1	10.0	ug/L	501	ND	116	70-124			
1,2,3-Trichloropropane	561.2	10.0	ug/L	503	ND	111	62-135			
trans-1,4-Dichloro-2-butene	1103	50.0	ug/L	1000	ND	110	50-120			
1,1,1,2-Tetrachloroethane	459.4	10.0	ug/L	501	ND	91.7	63-126			
1,4-Dichlorobenzene	466.5	10.0	ug/L	501	ND	93.1	72-119			
1,2-Dichlorobenzene	491.2	10.0	ug/L	501	ND	98.1	71-117			
1,2-Dibromo-3-chloropropane	503.5	50.0	ug/L	501	ND	100	49-134			
Surrogate: Dibromofluoromethane	513		ug/L	502		102	57-128			
Surrogate: Dibromofluoromethane	513		ug/L	502		102	75-136			
Surrogate: 1,2-Dichloroethane-d4	504		ug/L	504		100	49-135			
Surrogate: 1,2-Dichloroethane-d4	504		ug/L	504		100	61-142			
Surrogate: Toluene-d8	497		ug/L	505		98.5	82-116			
Surrogate: Toluene-d8	497		ug/L	505		98.5	82-121			
Surrogate: 4-Bromofluorobenzene	527		ug/L	502		105	77-114			
Surrogate: 4-Bromofluorobenzene	527		ug/L	502		105	80-116			
Matrix Spike Dup (11I0699-MSD1)	Source: 11I0763-01			Prepared: 09/11/25 00:00 Analyzed: 09/11/25 19:29						
Chloromethane	286.0	10.0	ug/L	303	ND	94.3	61-152	4.84	26	
Vinyl Chloride	276.2	10.0	ug/L	302	ND	91.3	66-149	1.01	23	
Bromomethane	274.0	10.0	ug/L	301	ND	91.0	43-171	12.6	29	
Chloroethane	274.7	10.0	ug/L	303	ND	90.6	69-148	3.40	25	
Trichlorofluoromethane	289.8	10.0	ug/L	303	ND	95.6	62-163	7.31	25	
1,1-Dichloroethylene	487.6	10.0	ug/L	501	ND	97.3	70-148	5.15	22	
Acetone	846.1	100	ug/L	1000	ND	84.6	45-173	7.70	30	
Methyl Iodide	812.4	10.0	ug/L	1000	ND	81.2	62-167	7.38	24	
Carbon Disulfide	912.8	10.0	ug/L	1000	ND	91.3	71-163	5.98	22	
Methylene Chloride	444.9	50.0	ug/L	501	ND	88.8	69-140	8.87	19	
Acrylonitrile	721.4	50.0	ug/L	504	ND	143	32-159	22.2	30	
trans-1,2-Dichloroethylene	448.2	10.0	ug/L	501	ND	89.5	69-144	6.25	22	
1,1-Dichloroethane	491.0	10.0	ug/L	501	ND	98.0	70-138	5.18	20	
Vinyl Acetate	1541	50.0	ug/L	1310	ND	118	58-142	3.34	24	
cis-1,2-Dichloroethylene	441.2	10.0	ug/L	504	ND	87.6	68-151	10.9	22	
2-Butanone (MEK)	1011	100	ug/L	1000	ND	101	50-160	7.59	23	
Bromochloromethane	451.4	10.0	ug/L	504	ND	89.6	65-143	8.34	22	
Chloroform	470.8	10.0	ug/L	501	ND	94.0	71-143	5.78	21	
1,1,1-Trichloroethane	486.2	10.0	ug/L	501	ND	97.0	63-133	6.04	23	
Carbon Tetrachloride	509.5	10.0	ug/L	501	ND	102	63-142	2.39	22	
Benzene	476.6	10.0	ug/L	504	ND	94.5	69-133	4.03	18	

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0699 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (11I0699-MSD1) Source: 11I0763-01 Prepared: 09/11/25 00:00 Analyzed: 09/11/25 19:29										
1,2-Dichloroethane	493.9	10.0	ug/L	501	ND	98.6	63-138	1.96	20	
Trichloroethylene	501.2	10.0	ug/L	501	ND	100	71-133	3.97	23	
1,2-Dichloropropane	496.9	10.0	ug/L	501	ND	99.2	69-132	4.52	20	
Dibromomethane	450.1	10.0	ug/L	504	ND	89.4	70-147	11.0	22	
Bromodichloromethane	504.5	10.0	ug/L	501	ND	101	67-130	1.32	21	
cis-1,3-Dichloropropene	501.1	10.0	ug/L	501	ND	100	61-126	1.45	21	
4-Methyl-2-pentanone (MIBK)	977.0	50.0	ug/L	1000	ND	97.7	55-147	2.48	23	
Toluene	465.3	10.0	ug/L	505	ND	92.2	71-133	5.90	19	
trans-1,3-Dichloropropene	521.6	10.0	ug/L	501	ND	104	63-124	8.71	21	
1,1,2-Trichloroethane	474.3	10.0	ug/L	501	ND	94.7	69-133	2.74	19	
Tetrachloroethylene	516.4	10.0	ug/L	501	ND	103	70-124	5.83	24	
2-Hexanone (MBK)	962.3	50.0	ug/L	1000	ND	96.2	53-141	5.60	24	
Dibromochloromethane	500.3	10.0	ug/L	501	ND	99.9	74-122	3.46	21	
1,2-Dibromoethane	505.2	10.0	ug/L	502	ND	101	66-127	3.56	23	
Chlorobenzene	490.5	10.0	ug/L	501	ND	97.9	76-116	6.11	21	
1,1,1,2-Tetrachloroethane	506.0	10.0	ug/L	503	ND	101	77-121	2.84	25	
Ethylbenzene	479.7	10.0	ug/L	502	ND	95.6	73-124	5.91	20	
Xylenes, total	1475	20.0	ug/L	1510	ND	97.7	75-123	5.82	20	
Styrene	511.4	10.0	ug/L	504	ND	102	70-120	3.50	23	
Bromoform	545.0	10.0	ug/L	501	ND	109	70-124	6.07	22	
1,2,3-Trichloropropane	522.5	10.0	ug/L	503	ND	104	62-135	7.14	28	
trans-1,4-Dichloro-2-butene	1016	50.0	ug/L	1000	ND	102	50-120	8.25	26	
1,1,2,2-Tetrachloroethane	444.0	10.0	ug/L	501	ND	88.6	63-126	3.41	24	
1,4-Dichlorobenzene	428.8	10.0	ug/L	501	ND	85.5	72-119	8.42	24	
1,2-Dichlorobenzene	469.0	10.0	ug/L	501	ND	93.6	71-117	4.62	24	
1,2-Dibromo-3-chloropropane	444.9	50.0	ug/L	501	ND	88.8	49-134	12.4	28	
Surrogate: Dibromofluoromethane	473		ug/L	502		94.3	75-136			
Surrogate: Dibromofluoromethane	473		ug/L	502		94.3	57-128			
Surrogate: 1,2-Dichloroethane-d4	497		ug/L	504		98.7	61-142			
Surrogate: 1,2-Dichloroethane-d4	497		ug/L	504		98.7	49-135			
Surrogate: Toluene-d8	493		ug/L	505		97.6	82-121			
Surrogate: Toluene-d8	493		ug/L	505		97.6	82-116			
Surrogate: 4-Bromofluorobenzene	515		ug/L	502		103	80-116			
Surrogate: 4-Bromofluorobenzene	515		ug/L	502		103	77-114			

Batch 11I0883 - EPA 5030B - EPA 8260D

Blank (11I0883-BLK1) Prepared: 09/15/25 00:00 Analyzed: 09/15/25 11:16										
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0883 - EPA 5030B - EPA 8260D										
Blank (11I0883-BLK1)				Prepared: 09/15/25 00:00 Analyzed: 09/15/25 11:16						
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	48.6		ug/L	50.2		96.9	75-136			
Surrogate: 1,2-Dichloroethane-d4	49.2		ug/L	50.4		97.6	61-142			

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0883 - EPA 5030B - EPA 8260D									
Blank (11I0883-BLK1)									
				Prepared: 09/15/25 00:00 Analyzed: 09/15/25 11:16					
Surrogate: Toluene-d8	49.3		ug/L	50.5		97.8 82-121			
Surrogate: 4-Bromofluorobenzene	46.8		ug/L	50.2		93.4 80-116			
LCS (11I0883-BS1)									
				Prepared: 09/15/25 00:00 Analyzed: 09/15/25 10:07					
Chloromethane	34.51	1.0	ug/L	30.3		114 63-155			
Vinyl Chloride	33.67	1.0	ug/L	30.2		111 70-154			
Bromomethane	29.00	1.0	ug/L	30.1		96.3 52-176			
Chloroethane	30.27	1.0	ug/L	30.3		99.8 72-148			
Trichlorofluoromethane	34.26	1.0	ug/L	30.3		113 70-152			
1,1-Dichloroethylene	56.03	1.0	ug/L	50.1		112 70-148			
Acetone	87.68	10.0	ug/L	100		87.7 43-172			
Methyl Iodide	95.45	1.0	ug/L	100		95.4 69-170			
Carbon Disulfide	110.6	1.0	ug/L	100		111 72-162			
Methylene Chloride	49.49	5.0	ug/L	50.1		98.8 68-142			
trans-1,2-Dichloroethylene	50.38	1.0	ug/L	50.1		101 66-148			
1,1-Dichloroethane	52.92	1.0	ug/L	50.1		106 66-143			
Vinyl Acetate	155.7	5.0	ug/L	131		119 43-153			
cis-1,2-Dichloroethylene	45.62	1.0	ug/L	50.4		90.6 71-149			
2-Butanone (MEK)	104.5	10.0	ug/L	100		104 52-159			
Bromochloromethane	50.63	1.0	ug/L	50.4		100 69-143			
Chloroform	50.64	1.0	ug/L	50.1		101 69-144			
1,1,1-Trichloroethane	52.69	1.0	ug/L	50.1		105 62-129			
Carbon Tetrachloride	56.07	1.0	ug/L	50.1		112 63-141			
Benzene	49.74	1.0	ug/L	50.4		98.6 71-134			
1,2-Dichloroethane	54.13	1.0	ug/L	50.1		108 72-132			
Trichloroethylene	55.03	1.0	ug/L	50.1		110 71-135			
1,2-Dichloropropane	50.71	1.0	ug/L	50.1		101 69-136			
Dibromomethane	47.04	1.0	ug/L	50.4		93.4 73-147			
Bromodichloromethane	55.76	1.0	ug/L	50.1		111 68-129			
cis-1,3-Dichloropropene	53.70	1.0	ug/L	50.1		107 65-134			
4-Methyl-2-pentanone (MIBK)	100.0	5.0	ug/L	100		100 58-147			
Toluene	49.46	1.0	ug/L	50.5		98.0 72-133			
trans-1,3-Dichloropropene	57.22	1.0	ug/L	50.1		114 67-130			
1,1,2-Trichloroethane	50.05	1.0	ug/L	50.1		99.9 69-135			
Tetrachloroethylene	55.48	1.0	ug/L	50.1		111 69-130			
2-Hexanone (MBK)	97.65	5.0	ug/L	100		97.6 55-144			
Dibromochloromethane	52.66	1.0	ug/L	50.1		105 73-127			
1,2-Dibromoethane	53.35	1.0	ug/L	50.2		106 67-132			
Chlorobenzene	49.82	1.0	ug/L	50.1		99.5 72-123			
1,1,1,2-Tetrachloroethane	53.90	1.0	ug/L	50.3		107 73-127			
Ethylbenzene	50.91	1.0	ug/L	50.2		101 71-127			
Xylenes, total	155.0	2.0	ug/L	151		103 74-127			
Styrene	52.47	1.0	ug/L	50.4		104 66-126			

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CERTIFICATE OF ANALYSIS

11I0763

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0883 - EPA 5030B - EPA 8260D										
LCS (11I0883-BS1) Prepared: 09/15/25 00:00 Analyzed: 09/15/25 10:07										
Bromoform	57.11	1.0	ug/L	50.1		114	68-130			
1,2,3-Trichloropropane	53.11	1.0	ug/L	50.3		105	63-136			
trans-1,4-Dichloro-2-butene	104.1	5.0	ug/L	100		104	54-134			
1,1,2,2-Tetrachloroethane	44.21	1.0	ug/L	50.1		88.2	61-131			
1,4-Dichlorobenzene	44.61	1.0	ug/L	50.1		89.0	70-129			
1,2-Dichlorobenzene	47.61	1.0	ug/L	50.1		95.0	69-126			
1,2-Dibromo-3-chloropropane	47.55	5.0	ug/L	50.1		94.9	50-143			
Surrogate: Dibromofluoromethane	49.0		ug/L	50.2		97.6	75-136			
Surrogate: 1,2-Dichloroethane-d4	48.9		ug/L	50.4		97.1	61-142			
Surrogate: Toluene-d8	48.9		ug/L	50.5		96.8	82-121			
Surrogate: 4-Bromofluorobenzene	52.0		ug/L	50.2		104	80-116			
LCS Dup (11I0883-BSD1) Prepared: 09/15/25 00:00 Analyzed: 09/15/25 10:30										
Chloromethane	33.08	1.0	ug/L	30.3		109	63-155	4.23	24	
Vinyl Chloride	32.66	1.0	ug/L	30.2		108	70-154	3.05	25	
Bromomethane	28.95	1.0	ug/L	30.1		96.1	52-176	0.173	27	
Chloroethane	29.57	1.0	ug/L	30.3		97.5	72-148	2.34	25	
Trichlorofluoromethane	33.73	1.0	ug/L	30.3		111	70-152	1.56	26	
1,1-Dichloroethylene	53.31	1.0	ug/L	50.1		106	70-148	4.98	24	
Acetone	92.20	10.0	ug/L	100		92.2	43-172	5.03	30	
Methyl Iodide	97.12	1.0	ug/L	100		97.1	69-170	1.73	30	
Carbon Disulfide	108.1	1.0	ug/L	100		108	72-162	2.29	24	
Methylene Chloride	49.86	5.0	ug/L	50.1		99.5	68-142	0.745	21	
trans-1,2-Dichloroethylene	48.85	1.0	ug/L	50.1		97.5	66-148	3.08	27	
1,1-Dichloroethane	50.49	1.0	ug/L	50.1		101	66-143	4.70	24	
Vinyl Acetate	153.8	5.0	ug/L	131		117	43-153	1.23	30	
cis-1,2-Dichloroethylene	47.25	1.0	ug/L	50.4		93.8	71-149	3.51	26	
2-Butanone (MEK)	103.8	10.0	ug/L	100		104	52-159	0.663	27	
Bromochloromethane	50.26	1.0	ug/L	50.4		99.7	69-143	0.733	23	
Chloroform	49.47	1.0	ug/L	50.1		98.8	69-144	2.34	23	
1,1,1-Trichloroethane	50.67	1.0	ug/L	50.1		101	62-129	3.91	24	
Carbon Tetrachloride	54.17	1.0	ug/L	50.1		108	63-141	3.45	25	
Benzene	50.10	1.0	ug/L	50.4		99.3	71-134	0.721	24	
1,2-Dichloroethane	51.75	1.0	ug/L	50.1		103	72-132	4.50	24	
Trichloroethylene	52.49	1.0	ug/L	50.1		105	71-135	4.72	24	
1,2-Dichloropropane	50.91	1.0	ug/L	50.1		102	69-136	0.394	24	
Dibromomethane	48.43	1.0	ug/L	50.4		96.2	73-147	2.91	25	
Bromodichloromethane	53.01	1.0	ug/L	50.1		106	68-129	5.06	22	
cis-1,3-Dichloropropene	53.94	1.0	ug/L	50.1		108	65-134	0.446	23	
4-Methyl-2-pentanone (MIBK)	103.5	5.0	ug/L	100		103	58-147	3.39	27	
Toluene	48.41	1.0	ug/L	50.5		95.9	72-133	2.15	24	
trans-1,3-Dichloropropene	56.97	1.0	ug/L	50.1		114	67-130	0.438	24	
1,1,2-Trichloroethane	49.87	1.0	ug/L	50.1		99.6	69-135	0.360	23	

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CERTIFICATE OF ANALYSIS

11I0763

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0883 - EPA 5030B - EPA 8260D										
LCS Dup (11I0883-BSD1)				Prepared: 09/15/25 00:00 Analyzed: 09/15/25 10:30						
Tetrachloroethylene	51.63	1.0	ug/L	50.1		103	69-130	7.19	25	
2-Hexanone (MBK)	101.3	5.0	ug/L	100		101	55-144	3.66	25	
Dibromochloromethane	53.07	1.0	ug/L	50.1		106	73-127	0.776	22	
1,2-Dibromoethane	50.52	1.0	ug/L	50.2		101	67-132	5.45	24	
Chlorobenzene	49.13	1.0	ug/L	50.1		98.1	72-123	1.39	23	
1,1,1,2-Tetrachloroethane	52.26	1.0	ug/L	50.3		104	73-127	3.09	24	
Ethylbenzene	50.00	1.0	ug/L	50.2		99.7	71-127	1.80	26	
Xylenes, total	150.0	2.0	ug/L	151		99.3	74-127	3.26	25	
Styrene	52.45	1.0	ug/L	50.4		104	66-126	0.0381	23	
Bromoform	56.19	1.0	ug/L	50.1		112	68-130	1.62	23	
1,2,3-Trichloropropane	51.85	1.0	ug/L	50.3		103	63-136	2.40	24	
trans-1,4-Dichloro-2-butene	105.0	5.0	ug/L	100		105	54-134	0.871	27	
1,1,2,2-Tetrachloroethane	44.54	1.0	ug/L	50.1		88.9	61-131	0.744	29	
1,4-Dichlorobenzene	44.97	1.0	ug/L	50.1		89.7	70-129	0.804	24	
1,2-Dichlorobenzene	46.48	1.0	ug/L	50.1		92.8	69-126	2.40	26	
1,2-Dibromo-3-chloropropane	47.36	5.0	ug/L	50.1		94.5	50-143	0.400	30	
Surrogate: Dibromofluoromethane	47.8		ug/L	50.2		95.2	75-136			
Surrogate: 1,2-Dichloroethane-d4	50.6		ug/L	50.4		100	61-142			
Surrogate: Toluene-d8	49.4		ug/L	50.5		97.8	82-121			
Surrogate: 4-Bromofluorobenzene	51.5		ug/L	50.2		103	80-116			
Matrix Spike (11I0883-MS1)				Source: 11I028-18		Prepared: 09/15/25 00:00 Analyzed: 09/15/25 19:15				
Chloromethane	713.7	10.0	ug/L	303	ND	235	61-152			M1
Vinyl Chloride	373.8	10.0	ug/L	302	ND	124	66-149			
Bromomethane	163.4	10.0	ug/L	301	ND	54.2	43-171			
Chloroethane	353.7	10.0	ug/L	303	ND	117	69-148			
Trichlorofluoromethane	369.2	10.0	ug/L	303	ND	122	62-163			
1,1-Dichloroethylene	596.4	10.0	ug/L	501	ND	119	70-148			
Acetone	1194	100	ug/L	1000	ND	119	45-173			
Methyl Iodide	499.2	10.0	ug/L	1000	ND	49.9	62-167			M2
Carbon Disulfide	1175	10.0	ug/L	1000	ND	117	71-163			
Methylene Chloride	562.2	50.0	ug/L	501	ND	112	69-140			
trans-1,2-Dichloroethylene	531.2	10.0	ug/L	501	ND	106	69-144			
1,1-Dichloroethane	564.9	10.0	ug/L	501	ND	113	70-138			
Vinyl Acetate	1742	50.0	ug/L	1310	ND	133	58-142			
cis-1,2-Dichloroethylene	507.6	10.0	ug/L	504	ND	101	68-151			
2-Butanone (MEK)	1200	100	ug/L	1000	ND	120	50-160			
Bromochloromethane	556.4	10.0	ug/L	504	ND	110	65-143			
Chloroform	557.1	10.0	ug/L	501	ND	111	71-143			
1,1,1-Trichloroethane	555.5	10.0	ug/L	501	ND	111	63-133			
Carbon Tetrachloride	509.9	10.0	ug/L	501	ND	102	63-142			
Benzene	527.6	10.0	ug/L	504	ND	105	69-133			
1,2-Dichloroethane	544.9	10.0	ug/L	501	ND	109	63-138			

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0883 - EPA 5030B - EPA 8260D										
Matrix Spike (11I0883-MS1)	Source: 11I1028-18			Prepared: 09/15/25 00:00 Analyzed: 09/15/25 19:15						
Trichloroethylene	568.5	10.0	ug/L	501	ND	113	71-133			
1,2-Dichloropropane	544.2	10.0	ug/L	501	ND	109	69-132			
Dibromomethane	523.4	10.0	ug/L	504	ND	104	70-147			
Bromodichloromethane	542.6	10.0	ug/L	501	ND	108	67-130			
cis-1,3-Dichloropropene	597.5	10.0	ug/L	501	ND	119	61-126			
4-Methyl-2-pentanone (MIBK)	1134	50.0	ug/L	1000	ND	113	55-147			
Toluene	517.8	10.0	ug/L	505	ND	103	71-133			
trans-1,3-Dichloropropene	600.7	10.0	ug/L	501	ND	120	63-124			
1,1,2-Trichloroethane	530.6	10.0	ug/L	501	ND	106	69-133			
Tetrachloroethylene	569.1	10.0	ug/L	501	ND	114	70-124			
2-Hexanone (MBK)	1071	50.0	ug/L	1000	ND	107	53-141			
Dibromochloromethane	508.3	10.0	ug/L	501	ND	102	74-122			
1,2-Dibromoethane	542.0	10.0	ug/L	502	ND	108	66-127			
Chlorobenzene	521.7	10.0	ug/L	501	ND	104	76-116			
1,1,1,2-Tetrachloroethane	533.7	10.0	ug/L	503	ND	106	77-121			
Ethylbenzene	523.6	10.0	ug/L	502	ND	104	73-124			
Xylenes, total	1560	20.0	ug/L	1510	ND	103	75-123			
Styrene	549.8	10.0	ug/L	504	ND	109	70-120			
Bromoform	579.9	10.0	ug/L	501	ND	116	70-124			
1,2,3-Trichloropropane	560.8	10.0	ug/L	503	ND	111	62-135			
trans-1,4-Dichloro-2-butene	1186	50.0	ug/L	1000	ND	119	50-120			
1,1,2,2-Tetrachloroethane	498.3	10.0	ug/L	501	ND	99.5	63-126			
1,4-Dichlorobenzene	484.8	10.0	ug/L	501	ND	96.7	72-119			
1,2-Dichlorobenzene	518.9	10.0	ug/L	501	ND	104	71-117			
1,2-Dibromo-3-chloropropane	571.3	50.0	ug/L	501	ND	114	49-134			
Surrogate: Dibromofluoromethane	523		ug/L	502		104	75-136			
Surrogate: 1,2-Dichloroethane-d4	524		ug/L	504		104	61-142			
Surrogate: Toluene-d8	501		ug/L	505		99.3	82-121			
Surrogate: 4-Bromofluorobenzene	491		ug/L	502		97.8	80-116			
Matrix Spike Dup (11I0883-MSD1)	Source: 11I1028-18			Prepared: 09/15/25 00:00 Analyzed: 09/15/25 19:38						
Chloromethane	681.3	10.0	ug/L	303	ND	225	61-152	4.65	26	M1
Vinyl Chloride	350.5	10.0	ug/L	302	ND	116	66-149	6.43	23	
Bromomethane	157.6	10.0	ug/L	301	ND	52.3	43-171	3.61	29	
Chloroethane	326.0	10.0	ug/L	303	ND	108	69-148	8.15	25	
Trichlorofluoromethane	344.6	10.0	ug/L	303	ND	114	62-163	6.89	25	
1,1-Dichloroethylene	589.7	10.0	ug/L	501	ND	118	70-148	1.13	22	
Acetone	1253	100	ug/L	1000	ND	125	45-173	4.82	30	
Methyl Iodide	496.2	10.0	ug/L	1000	ND	49.6	62-167	0.603	24	M2
Carbon Disulfide	1129	10.0	ug/L	1000	ND	113	71-163	3.98	22	
Methylene Chloride	536.7	50.0	ug/L	501	ND	107	69-140	4.64	19	
trans-1,2-Dichloroethylene	521.5	10.0	ug/L	501	ND	104	69-144	1.84	22	
1,1-Dichloroethane	542.4	10.0	ug/L	501	ND	108	70-138	4.06	20	

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0883 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (11I0883-MSD1) Source: 11I1028-18 Prepared: 09/15/25 00:00 Analyzed: 09/15/25 19:38										
Vinyl Acetate	1763	50.0	ug/L	1310	ND	135	58-142	1.20	24	
cis-1,2-Dichloroethylene	506.2	10.0	ug/L	504	ND	101	68-151	0.276	22	
2-Butanone (MEK)	1277	100	ug/L	1000	ND	128	50-160	6.26	23	
Bromochloromethane	526.8	10.0	ug/L	504	ND	105	65-143	5.47	22	
Chloroform	529.3	10.0	ug/L	501	ND	106	71-143	5.12	21	
1,1,1-Trichloroethane	534.2	10.0	ug/L	501	ND	107	63-133	3.91	23	
Carbon Tetrachloride	486.7	10.0	ug/L	501	ND	97.2	63-142	4.66	22	
Benzene	499.8	10.0	ug/L	504	ND	99.1	69-133	5.41	18	
1,2-Dichloroethane	532.3	10.0	ug/L	501	ND	106	63-138	2.34	20	
Trichloroethylene	513.6	10.0	ug/L	501	ND	103	71-133	10.1	23	
1,2-Dichloropropane	527.0	10.0	ug/L	501	ND	105	69-132	3.21	20	
Dibromomethane	489.3	10.0	ug/L	504	ND	97.1	70-147	6.73	22	
Bromodichloromethane	519.5	10.0	ug/L	501	ND	104	67-130	4.35	21	
cis-1,3-Dichloropropene	553.4	10.0	ug/L	501	ND	110	61-126	7.66	21	
4-Methyl-2-pentanone (MIBK)	1099	50.0	ug/L	1000	ND	110	55-147	3.15	23	
Toluene	490.2	10.0	ug/L	505	ND	97.1	71-133	5.48	19	
trans-1,3-Dichloropropene	571.1	10.0	ug/L	501	ND	114	63-124	5.05	21	
1,1,2-Trichloroethane	496.7	10.0	ug/L	501	ND	99.2	69-133	6.60	19	
Tetrachloroethylene	535.2	10.0	ug/L	501	ND	107	70-124	6.14	24	
2-Hexanone (MBK)	1075	50.0	ug/L	1000	ND	108	53-141	0.410	24	
Dibromochloromethane	515.8	10.0	ug/L	501	ND	103	74-122	1.46	21	
1,2-Dibromoethane	548.1	10.0	ug/L	502	ND	109	66-127	1.12	23	
Chlorobenzene	502.0	10.0	ug/L	501	ND	100	76-116	3.85	21	
1,1,1,2-Tetrachloroethane	526.4	10.0	ug/L	503	ND	105	77-121	1.38	25	
Ethylbenzene	498.2	10.0	ug/L	502	ND	99.3	73-124	4.97	20	
Xylenes, total	1504	20.0	ug/L	1510	ND	99.5	75-123	3.65	20	
Styrene	510.9	10.0	ug/L	504	ND	101	70-120	7.33	23	
Bromoform	565.9	10.0	ug/L	501	ND	113	70-124	2.44	22	
1,2,3-Trichloropropane	548.3	10.0	ug/L	503	ND	109	62-135	2.25	28	
trans-1,4-Dichloro-2-butene	1129	50.0	ug/L	1000	ND	113	50-120	4.97	26	
1,1,2,2-Tetrachloroethane	464.1	10.0	ug/L	501	ND	92.6	63-126	7.11	24	
1,4-Dichlorobenzene	446.2	10.0	ug/L	501	ND	89.0	72-119	8.29	24	
1,2-Dichlorobenzene	478.7	10.0	ug/L	501	ND	95.6	71-117	8.06	24	
1,2-Dibromo-3-chloropropane	548.0	50.0	ug/L	501	ND	109	49-134	4.16	28	
Surrogate: Dibromofluoromethane	515		ug/L	502		103	75-136			
Surrogate: 1,2-Dichloroethane-d4	552		ug/L	504		110	61-142			
Surrogate: Toluene-d8	502		ug/L	505		99.4	82-121			
Surrogate: 4-Bromofluorobenzene	500		ug/L	502		99.7	80-116			

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0634 - EPA 3005A Total Recoverable Metals - EPA 6020A										

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Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0634 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (11I0634-BLK1)			Prepared: 09/11/25 08:32 Analyzed: 09/11/25 16:17							
Antimony, total	<0.0010	0.0010	mg/L							
Arsenic, total	<0.0020	0.0020	mg/L							
Barium, total	<0.0010	0.0010	mg/L							
Beryllium, total	<0.0005	0.0005	mg/L							
Cadmium, total	<0.0002	0.0002	mg/L							
Chromium, total	<0.0010	0.0010	mg/L							
Cobalt, total	<0.0005	0.0005	mg/L							
Copper, total	<0.0050	0.0050	mg/L							
Lead, total	<0.0010	0.0010	mg/L							
Nickel, total	<0.0050	0.0050	mg/L							
Selenium, total	<0.0020	0.0020	mg/L							
Silver, total	<0.0050	0.0050	mg/L							
Thallium, total	<0.0005	0.0005	mg/L							
Vanadium, total	<0.0020	0.0020	mg/L							
Zinc, total	<0.0050	0.0050	mg/L							B
LCS (11I0634-BS1)			Prepared: 09/11/25 08:32 Analyzed: 09/11/25 16:20							
Antimony, total	0.0986	0.0010	mg/L	0.100		98.6	80-120			
Arsenic, total	0.0950	0.0020	mg/L	0.100		95.0	80-120			
Barium, total	0.103	0.0010	mg/L	0.100		103	80-120			
Beryllium, total	0.0953	0.0005	mg/L	0.100		95.3	80-120			
Cadmium, total	0.0983	0.0002	mg/L	0.100		98.3	80-120			
Chromium, total	0.0976	0.0010	mg/L	0.100		97.6	80-120			
Cobalt, total	0.0969	0.0005	mg/L	0.100		96.9	80-120			
Copper, total	0.0929	0.0050	mg/L	0.100		92.9	80-120			
Lead, total	0.100	0.0010	mg/L	0.100		100	80-120			
Nickel, total	0.0939	0.0050	mg/L	0.100		93.9	80-120			
Selenium, total	0.0926	0.0020	mg/L	0.100		92.6	80-120			
Silver, total	0.0984	0.0050	mg/L	0.100		98.4	80-120			
Thallium, total	0.0999	0.0005	mg/L	0.100		99.9	80-120			
Vanadium, total	0.103	0.0020	mg/L	0.100		103	80-120			
Zinc, total	0.0974	0.0050	mg/L	0.100		97.4	80-120			
Matrix Spike (11I0634-MS1)			Source: 11I0730-16	Prepared: 09/11/25 08:32 Analyzed: 09/11/25 16:25						
Antimony, total	0.0647	0.0010	mg/L	0.100	0.0008	63.8	75-125			M2
Arsenic, total	0.0883	0.0020	mg/L	0.100	0.0087	79.6	75-125			
Barium, total	1.36	0.0010	mg/L	0.100	1.16	199	75-125			M6
Beryllium, total	0.101	0.0005	mg/L	0.100	0.0013	99.5	75-125			
Cadmium, total	0.101	0.0002	mg/L	0.100	0.0005	100	75-125			
Chromium, total	0.132	0.0010	mg/L	0.100	0.0311	101	75-125			
Cobalt, total	0.105	0.0005	mg/L	0.100	0.0111	94.2	75-125			
Copper, total	0.116	0.0050	mg/L	0.100	0.0300	85.9	75-125			
Lead, total	0.123	0.0010	mg/L	0.100	0.0162	107	75-125			
Nickel, total	0.119	0.0050	mg/L	0.100	0.0288	90.5	75-125			
Selenium, total	0.0804	0.0020	mg/L	0.100	0.0031	77.3	75-125			

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CERTIFICATE OF ANALYSIS

11I0763

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0634 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Matrix Spike (11I0634-MS1) Source: 11I0730-16 Prepared: 09/11/25 08:32 Analyzed: 09/11/25 16:25										
Silver, total	0.0996	0.0050	mg/L	0.100	ND	99.6	75-125			
Thallium, total	0.106	0.0005	mg/L	0.100	0.0004	106	75-125			
Vanadium, total	0.174	0.0020	mg/L	0.100	0.0588	115	75-125			
Zinc, total	0.202	0.0050	mg/L	0.100	0.0993	102	75-125			
Matrix Spike Dup (11I0634-MSD1) Source: 11I0730-16 Prepared: 09/11/25 08:32 Analyzed: 09/11/25 16:32										
Antimony, total	0.0642	0.0010	mg/L	0.100	0.0008	63.4	75-125	0.719	20	M2
Arsenic, total	0.0865	0.0020	mg/L	0.100	0.0087	77.8	75-125	2.05	20	
Barium, total	1.32	0.0010	mg/L	0.100	1.16	158	75-125	3.05	20	M6
Beryllium, total	0.101	0.0005	mg/L	0.100	0.0013	99.3	75-125	0.211	20	
Cadmium, total	0.0987	0.0002	mg/L	0.100	0.0005	98.2	75-125	2.06	20	
Chromium, total	0.132	0.0010	mg/L	0.100	0.0311	101	75-125	0.0937	20	
Cobalt, total	0.105	0.0005	mg/L	0.100	0.0111	93.4	75-125	0.810	20	
Copper, total	0.114	0.0050	mg/L	0.100	0.0300	83.6	75-125	1.99	20	
Lead, total	0.121	0.0010	mg/L	0.100	0.0162	105	75-125	1.88	20	
Nickel, total	0.118	0.0050	mg/L	0.100	0.0288	89.5	75-125	0.816	20	
Selenium, total	0.0784	0.0020	mg/L	0.100	0.0031	75.3	75-125	2.48	20	
Silver, total	0.100	0.0050	mg/L	0.100	ND	100	75-125	0.655	20	
Thallium, total	0.104	0.0005	mg/L	0.100	0.0004	104	75-125	1.96	20	
Vanadium, total	0.172	0.0020	mg/L	0.100	0.0588	114	75-125	0.924	20	
Zinc, total	0.195	0.0050	mg/L	0.100	0.0993	95.7	75-125	3.30	20	
Post Spike (11I0634-PS1) Source: 11I0730-16 Prepared: 09/11/25 08:32 Analyzed: 09/11/25 16:35										
Antimony, total	0.0220		mg/L	0.0200	0.0008	106	80-120			
Arsenic, total	0.0247		mg/L	0.0200	0.0085	80.8	80-120			
Barium, total	1.15		mg/L	0.0200	1.14	22.2	80-120			M6
Beryllium, total	0.0215		mg/L	0.0200	0.0012	102	80-120			
Cadmium, total	0.0201		mg/L	0.0200	0.0005	98.1	80-120			
Chromium, total	0.0493		mg/L	0.0200	0.0304	94.4	80-120			
Cobalt, total	0.0288		mg/L	0.0200	0.0109	89.6	80-120			
Copper, total	0.0463		mg/L	0.0200	0.0294	84.8	80-120			
Lead, total	0.0360		mg/L	0.0200	0.0158	101	80-120			
Nickel, total	0.0465		mg/L	0.0200	0.0282	91.2	80-120			
Selenium, total	0.0189		mg/L	0.0200	0.0030	79.2	80-120			M2
Silver, total	0.0203		mg/L	0.0200	0.0002	101	80-120			
Thallium, total	0.0207		mg/L	0.0200	0.0004	102	80-120			
Vanadium, total	0.0851		mg/L	0.0200	0.0576	138	80-120			M1
Zinc, total	0.116		mg/L	0.0200	0.0973	92.7	80-120			
Batch 11I1723 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (11I1723-BLK1) Prepared: 09/30/25 14:35 Analyzed: 10/01/25 20:04										
Chromium, total	<0.0010	0.0010	mg/L							
Copper, total	<0.0050	0.0050	mg/L							
LCS (11I1723-BS1) Prepared: 09/30/25 14:35 Analyzed: 10/01/25 20:07										

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CERTIFICATE OF ANALYSIS

11I0763

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I1723 - EPA 3005A Total Recoverable Metals - EPA 6020A										
LCS (11I1723-BS1)				Prepared: 09/30/25 14:35 Analyzed: 10/01/25 20:07						
Chromium, total	0.105	0.0010	mg/L	0.100		105	80-120			
Copper, total	0.110	0.0050	mg/L	0.100		110	80-120			
Matrix Spike (11I1723-MS1)				Source: 11I0763-14RE1 Prepared: 09/30/25 14:35 Analyzed: 10/01/25 20:12						
Chromium, total	0.0999	0.0010	mg/L	0.100	0.0024	97.5	75-125			
Copper, total	0.103	0.0050	mg/L	0.100	ND	103	75-125			
Matrix Spike Dup (11I1723-MSD1)				Source: 11I0763-14RE1 Prepared: 09/30/25 14:35 Analyzed: 10/01/25 20:19						
Chromium, total	0.105	0.0010	mg/L	0.100	0.0024	102	75-125	4.63	20	
Copper, total	0.106	0.0050	mg/L	0.100	ND	106	75-125	2.86	20	
Post Spike (11I1723-PS1)				Source: 11I0763-14RE1 Prepared: 09/30/25 14:35 Analyzed: 10/01/25 20:22						
Chromium, total	0.0223		mg/L	0.0200	0.0024	99.7	80-120			
Copper, total	0.0208		mg/L	0.0200	0.0011	98.6	80-120			

Definitions

B:	The target analyte was detected in the blank at or above the method acceptance criteria.
M1:	Matrix spike recovery is above acceptance limits.
M2:	Matrix spike recovery is below acceptance limits.
M6:	Matrix spike recovery is outside of acceptance limits. The analyte concentration is greater than 4X the spiking level.
Q2:	LCS recovery is above acceptance limits.
RL:	Reporting Limit
RPD:	Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 0.0°C

Cooler Inspection Checklist

Custody Seals	No	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Confirmed	No
Received On Ice	Yes		

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
10/03/25 16:00

CHAIN OF CUSTODY RECORD



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Newton, IA 50208
Phone: 641-792-8451

Page 1 of 3

Printed: 8/29/2025 9:50:35AM

Page 53 of 54

SITE INFORMATION

Sampler: Todd Whipple

Project: **Page Co-New Regs**
6047

SPECIAL INSTRUCTIONS

None

Turn Around Time

☐ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632



HLW Engineering
PM: Heather Murphy

Temperature: 0.0 ice °C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	MW-1D	Aqueous	GRAB	9/8/25	15:04	7	Indfil-app1-metals-6020dfill-app1-voc-group	01
02-001	MW-3	Aqueous	GRAB	9/8/25	15:51	7	Indfil-app1-metals-6020dfill-app1-voc-group	02
03-001	MW-7	Aqueous	GRAB	9/8/25	17:40	7	Indfil-app1-metals-6020dfill-app1-voc-group	03
04-001	MW-10	Aqueous	GRAB	9/8/25	14:39	5*	Indfil-app1-org Indfil-app1-inorg-6020	04
05-001	MW-13	Aqueous	GRAB	9/8/25	17:17	7	Indfil-app1-metals-6020dfill-app1-voc-group	05
06-001	MW-14	Aqueous	GRAB	9/8/25	17:00	7	Indfil-app1-metals-6020dfill-app1-voc-group	06
07-001	MW-16	Aqueous	GRAB	9/8/25	16:16	7	Indfil-app1-metals-6020dfill-app1-voc-group	07
08-001	MW-17 (b)	Aqueous	GRAB	9/8/25	15:33	7	Indfil-app1-metals-6020dfill-app1-voc-group	08
09-001	MW-18	Aqueous	GRAB	9/8/25	16:04	7	Indfil-app1-metals-6020dfill-app1-voc-group	09
10-001	MW-19 (R)	Aqueous	GRAB	9/8/25	17:27	7	Indfil-app1-metals-6020dfill-app1-voc-group	10

Relinquished By

Date/Time

Relinquished By

Date/Time

Received By

Date/Time

Received for Lab By

Date/Time

Remarks:

* insufficient sample. Only 2
HCL vials were filled + Nitric
container

CHAIN OF CUSTODY RECORD



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Newton, IA 50208
Phone: 641-792-8451

Page 2 of 3

Printed: 8/29/2025 9:50:35AM

Page 54 of 54

SITE INFORMATION

Sampler: TODD WHIPPLE

Project: **Page Co-New Regs**
6047

SPECIAL INSTRUCTIONS

None

Turn Around Time

☐ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

LAB USE ONLY



1 I I 0 7 6 3

HLW Engineering
PM: Heather Murphy

Temperature: 0.0 ice °C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
11-001	MW-20	Aqueous	GRAB	9/8/25	17:54	7	Indfil-app1-metals-6020dfill-app1-voc-group	11
12-001	GWD-1	Aqueous	GRAB	9/8/25	16:32	7	Indfil-app1-metals-6020dfill-app1-voc-group	12
13-001	Duplicate	Aqueous	GRAB	9/8/25	✓	1	Indfil-app1-metals-6020dfill-app1-voc-group	13
14-001	MW-44 (b)	Aqueous	GRAB	9/8/25	15:20	7	Indfil-app1-metals-6020dfill-app1-voc-group	14
15-001	MW-53	Aqueous	GRAB	9/8/25	18:07	7	Indfil-app1-metals-6020dfill-app1-voc-group	15
16-001	GWD-2 DRY	Aqueous	GRAB	—	—	—	Indfil-app1-metals-6020dfill-app1-voc-group	
17-001	GWD-3	Aqueous	GRAB	9/8/25	18:30	7	Indfil-app1-metals-6020dfill-app1-voc-group	16
18-001	GWD-4	Aqueous	GRAB	9/8/25	18:35	7	Indfil-app1-metals-6020dfill-app1-voc-group	17

Relinquished By

Date/Time

Relinquished By

Date/Time

Received By

Date/Time

Received for Lab By

Date/Time

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11L0696

Project Description

6047

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Monday, December 22, 2025

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., Newton. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IL0696

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: 6047

Project / PO Number: N/A
Received: 12/08/2025
Reported: 12/22/2025

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
MW-14	1IL0696-01	Aqueous	GRAB		12/05/25 11:01	12/08/25 10:50
GU-3	1IL0696-02	Aqueous	GRAB		12/05/25 11:22	12/08/25 10:50
GU-4	1IL0696-03	Aqueous	GRAB		12/05/25 11:24	12/08/25 10:50



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11L0696

Analytical Testing Parameters

Client Sample ID: MW-14
Sample Matrix: Aqueous
Lab Sample ID: 11L0696-01

Collected By: JGH
Collection Date: 12/05/2025 11:01

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Cadmium	0.0003	0.0002	mg/L		12/16/25 0612	12/16/25 2341	JAR

Client Sample ID: GU-3
Sample Matrix: Aqueous
Lab Sample ID: 11L0696-02

Collected By: JGH
Collection Date: 12/05/2025 11:22

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Zinc	0.398	0.0050	mg/L		12/16/25 0612	12/16/25 2351	JAR

Client Sample ID: GU-4
Sample Matrix: Aqueous
Lab Sample ID: 11L0696-03

Collected By: JGH
Collection Date: 12/05/2025 11:24

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Zinc	0.0880	0.0050	mg/L		12/18/25 0949	12/18/25 1939	RVV



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11L0696

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 200.7, Rv. 4.4 (1994)	11L0547	11L0547-BLK1	
		11L0547-BS1	
		11L0547-MS1	11L0664-01
		11L0547-MSD1	11L0664-01
		11L0547-PS1	11L0664-01
Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	11L0855	11L0855-BLK1	
		11L0855-BS1	
		11L0696-01	MW-14
		11L0855-MS1	11L0696-01
		11L0855-MSD1	11L0696-01
		11L0855-PS1	11L0696-01
EPA 6020A	11L1039	11L0696-02	GU-3
		11L1039-BLK1	
		11L0696-03RE1	GU-4
		11L1039-MS1	11L0925-01RE1
EPA 6020A	11L1039	11L1039-MSD1	11L0925-01RE1
		11L1039-PS1	11L0925-01RE1
		11L1039-BS1	

Batch Quality Control Summary: Microbac Laboratories, Inc., Newton

Metals Total by ICP	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11L0547 - EPA 200.2 Total ICP-OES (200.7) - EPA 200.7, Rv. 4.4 (1994)										
Blank (11L0547-BLK1)				Prepared: 12/10/25 07:00 Analyzed: 12/10/25 18:51						
Cadmium	<0.005	0.005	mg/L							
Zinc	<0.020	0.020	mg/L							
LCS (11L0547-BS1)				Prepared: 12/10/25 07:00 Analyzed: 12/10/25 18:57						
Cadmium	0.194	0.005	mg/L	0.200		97.0	85-115			
Zinc	0.188	0.020	mg/L	0.200		94.0	85-115			
Matrix Spike (11L0547-MS1)				Source: 11L0664-01 Prepared: 12/10/25 07:00 Analyzed: 12/10/25 19:20						
Cadmium	0.204	0.005	mg/L	0.200	ND	102	70-130			
Zinc	0.531	0.020	mg/L	0.200	0.327	102	70-130			
Matrix Spike Dup (11L0547-MSD1)				Source: 11L0664-01 Prepared: 12/10/25 07:00 Analyzed: 12/10/25 19:26						
Cadmium	0.202	0.005	mg/L	0.200	ND	101	70-130	1.35	20	
Zinc	0.520	0.020	mg/L	0.200	0.327	96.6	70-130	2.19	20	
Post Spike (11L0547-PS1)				Source: 11L0664-01 Prepared: 12/10/25 07:00 Analyzed: 12/10/25 19:31						
Cadmium	0.798		mg/L	0.800	0.000325	99.7	85-115			
Zinc	1.10		mg/L	0.800	0.327	96.2	85-115			
Metals Total by ICPMS	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11L0855 - EPA 3005A Total Recoverable Metals - EPA 6020A										

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CERTIFICATE OF ANALYSIS

11L0696

Metals Total by ICPMS	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11L0855 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (11L0855-BLK1)			Prepared: 12/16/25 06:12 Analyzed: 12/16/25 23:36							
Cadmium	<0.0002	0.0002	mg/L							
Zinc	0.0121	0.0050	mg/L							B
LCS (11L0855-BS1)			Prepared: 12/16/25 06:12 Analyzed: 12/16/25 23:38							
Cadmium	0.0955	0.0002	mg/L	0.100		95.5	80-120			
Zinc	0.0829	0.0050	mg/L	0.100		82.9	80-120			
Matrix Spike (11L0855-MS1)			Source: 11L0696-01	Prepared: 12/16/25 06:12 Analyzed: 12/16/25 23:43						
Cadmium	0.0979	0.0002	mg/L	0.100	0.0003	97.6	75-125			
Zinc	0.0843	0.0050	mg/L	0.100	0.0049	79.4	75-125			
Matrix Spike Dup (11L0855-MSD1)			Source: 11L0696-01	Prepared: 12/16/25 06:12 Analyzed: 12/16/25 23:46						
Cadmium	0.0981	0.0002	mg/L	0.100	0.0003	97.8	75-125	0.145	20	
Zinc	0.0821	0.0050	mg/L	0.100	0.0049	77.2	75-125	2.64	20	
Post Spike (11L0855-PS1)			Source: 11L0696-01	Prepared: 12/16/25 06:12 Analyzed: 12/16/25 23:49						
Cadmium	0.0204		mg/L	0.0200	0.0003	101	80-120			
Zinc	0.0213		mg/L	0.0200	0.0049	82.2	80-120			
Batch 11L1039 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (11L1039-BLK1)			Prepared: 12/18/25 09:49 Analyzed: 12/18/25 19:31							
Zinc	<0.0050	0.0050	mg/L							B
LCS (11L1039-BS1)			Prepared: 12/18/25 09:49 Analyzed: 12/19/25 11:08							
Zinc	0.105	0.0200	mg/L	0.100		105	80-120			
Matrix Spike (11L1039-MS1)			Source: 11L0925-01RE1	Prepared: 12/18/25 09:49 Analyzed: 12/18/25 19:44						
Zinc	0.0913	0.0200	mg/L	0.100	ND	91.3	75-125			
Matrix Spike Dup (11L1039-MSD1)			Source: 11L0925-01RE1	Prepared: 12/18/25 09:49 Analyzed: 12/18/25 19:52						
Zinc	0.0991	0.0200	mg/L	0.100	ND	99.1	75-125	8.19	20	
Post Spike (11L1039-PS1)			Source: 11L0925-01RE1	Prepared: 12/18/25 09:49 Analyzed: 12/18/25 19:54						
Zinc	0.0238		mg/L	0.0200	0.0054	92.3	80-120			

Definitions

B:	The target analyte was detected in the blank at or above the method acceptance criteria.
RL:	Reporting Limit
RPD:	Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 1.2°C

Cooler Inspection Checklist

Custody Seals	No	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Confirmed	No
Received On Ice	Yes		



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IL0696

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Heather Murphy

Customer Relationship Specialist

heather.murphy@microbac.com

12/22/25 16:43

Keystone

LABORATORIES, INC.

☐ 600 E. 17th St. S.
Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989



1 I L 0 6 9 6

HLW Engineering
PM: Heather Murphy

Paul
y, KS 66105
-321-7856
-831-6778

☐ 205 E VanBuren St
Centerville, IA 52544
Phone: 641-437-7023
Fax: 641-437-7040

PAGE 1 OF 1

Page 7 of 7

PRINT OR TYPE INFORMATION BELOW

SAMPLER: JGH
SITE NAME: PAGE CO SLF
ADDRESS: _____
CITY/ST/ZIP: _____
PHONE: _____

REPORT TO:
NAME: TODD WHIPPLE
COMPANY NAME: HLW ENG.
ADDRESS: PO Box 314
CITY/ST/ZIP: STORY CITY, IA 50248
PHONE: 515-733-4144
FAX: 515-733-4146

BILL TO:
NAME: BRIAN WARD
COMPANY NAME: PAGE CO SLF
ADDRESS: 2032-N AVE
CITY/ST/ZIP: CLARINDA, IA 51632
PHONE: _____
Keystone Quote No: _____
(If Applicable)

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED										LAB USE ONLY	
							Cd, TOTAL	Zn, TOTAL									LABORATORY WORK ORDER NO.	LABORATORY SAMPLE NUMBER
MW 14	12/5/25	11:01		1	WATER	G	X										1ILO696	01
GU-3	12/5/25	11:22		1	WATER	G		X										02
GU-4	12/5/25	11:24		1	WATER	G		X										03

Relinquished by: (Signature) <u>JLQH</u>	Date <u>12/8/25</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>12/8/25</u>	Turn-Around: ☐ Standard ☐ Rush
	Time		Time <u>10:50</u>	
Relinquished by: (Signature)	Date	Received for Lab by: (Signature) <u>[Signature]</u>	Date	Remarks:
	Time		Time	

Appendix D

Summary of Field Turbidity Measurements

Page County Sanitary Landfill

Field Turbidity Over Time

No-Purge Sampling

	3/21/17	10/13/17	1/12/18	3/9/18	9/6/18	12/18/18	3/7/19	9/26/19	12/17/19	4/2/20
Well	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU
1D	0.4	1.31		1.16	0.82		6.61	1.23		0.78
3	0.98	1.72	2.18	0.87	0.79	1.44	12.91	1.83		1.84
7	1.19	7.02		2.04	0.96		2.28	24.1	3.39	3.15
10	0.68	8.12		3.75	16.99		1.46	0.77		4.19
13	0.88	5.3	0.9	0.97	0.84		0.92	3.04		1.00
14	0.39	2.08		1.77	3.24	0.95	3.98	5.6		1.03
16	10.09	24.9	2.62	10.9	1.73			8.21		11.2
17	4.7	1.29		0.68	0.4		3.33	2.94		1.04
18	0.48	36.3		0.93	1.92		2.8	15.8		3.41
19R										
20	2.2	11.1		3.13	0.77		2.61	1.03		1.23
44										
53										
GWD-1	3.39	1.29		1.22	9.31		0.83	7.63		0.78
GWD-3										
GWD-4										
Max	10.09	36.30	2.62	10.9	16.99	1.44	12.91	24.1	3.39	11.2
Min	0.39	1.29	0.9	0.68	0.4	0.95	0.62	0.77	3.39	0.78
Median	1.02	5.30	2.18	1.22	1.14	1.195	2.445	3.04	3.39	1.04
Average	2.63	8.68	1.9	2.991538	3.093077	1.195	3.253333	6.335385	3.39	2.41

Page Coi

Field Turbic

	9/17/20	12/3/20	3/25/21	9/16/21	3/16/22	9/1/22	11/29/22	3/24/23	9/7/23	3/18/24
Well	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>
1D	0.62		2.62	3.64	1.4	3.51		1.15	1.89	4.21
3	0.5		0.66	17.65	10	0.74		9.84	2.34	6.4
7	4.85	6.98	4.22	9.2	1.79	22.6		4.39	14.4	3.13
10	3.79		9.68	1.27	9.06	3.16		1.17	2.86	7.01
13	1.75		0.84	1.69	1.24	2.13		2.33	2.52	1.33
14	0.8		35.6	1.45	2.21	3.23	7.92	2.4	2.27	2.11
16	24.7		16.6	15.31	47.5	24.4		10.5	5.51	10.6
17	0.68		1.34	1.39	1.26	0.73		1.88	1.59	6
18	9.18		8.26	0.92	2.57	0.81		3.65	2.76	4.1
19R										
20	1.14		7.86	2.56	22.3	5.7		6.71	5.71	13.3
44									2.31	4.26
53										
GWD-1	1.86		7.22		1.35	3.54		2.24	31.4	6.34
GWD-3										
GWD-4										
Max	24.7	6.98	35.6	17.65	47.5	24.40	7.92	10.50	31.40	42.10
Min	0.5	6.98	0.66	0.92	1.14	0.73	7.92	0.86	1.39	1.33
Median	1.75	6.98	5.26	1.98	2.21	3.16	7.92	2.40	2.52	6.00
Average	4.364615	6.98	7.767692	4.89	8.140769	5.65	7.92	4.34	5.92	8.53

Page Coi

Field Turbic

	8/1/24	9/25/24	11/25/24	3/10/25	5/1/25	9/8/25	Max	Min	Ave	Std Dev
Well	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>				
1D		2.37		2.6		2.00	6.61	0.40	2.13	1.57
3		1.67		6.48		1.79	17.65	0.50	4.13	4.86
7		17.88		3.56		63.62	63.62	0.96	10.04	14.42
10		2.73		11.4		1.9	16.99	0.68	5.00	4.48
13		2.46		1.66	2.9	1	5.30	0.84	1.79	1.10
14		4.24	1.09	3.55		1.97	35.60	0.39	4.18	7.41
16		10.14		21.4		8.8	47.50	1.73	14.73	10.85
17		2.41		1.33		1.71	6.00	0.40	1.93	1.48
18		2.28		3.02		2.19	36.30	0.48	5.63	8.53
19R			0.79	1.5		1.04	1.50	0.79	1.11	0.36
20		2.88		5.38		1.81	22.30	0.77	5.41	5.50
44			2.53	1.93		10.3	10.30	1.93	4.27	3.49
53	4.29	2.08		2.08		1.1	4.29	1.10	2.39	1.35
GWD-1			15.3	61.8		1.71	61.80	0.78	9.25	15.54
GWD-3	2.13	2.03		1.81		1.07	2.13	1.07	1.76	0.48
GWD-4	1.07	2.38	1.83	2.05		20.7	20.70	1.07	5.61	8.45
Max	4.29	17.88	15.30	61.80	2.90	63.62				
Min	4.29	1.67	0.79	1.33	2.90	1.00				
Median	4.29	2.46	1.81	3.29	2.90	1.86				
Average	4.29	4.65	4.93	9.12	2.90	7.21				

Appendix E

Summary of Prediction Limit Exceedances 2018 - Present

Spring 2018		Fall 2018	
MW-3*	Selenium	MW-3*	Selenium
MW-7*	None	MW-7*	None
MW-10*	Arsenic	MW-10*	Arsenic
			Barium
			Zinc
			Acetone
			Benzene
			Bis(2-ethylhexyl)phthalate
MW-16*	1,1-dichloroethane	MW-16*	Barium
	1,4-dichlorobenzene		1,4-dichlorobenzene
	Chlorobenzene		Benzene
	Dichlorodifluoromethane		Chlorobenzene
MW-18**	Arsenic	MW-18**	Arsenic
			Barium
			Zinc
MW-19*	1,1-dichloroethane	MW-19*	1,1-dichloroethane
	cis-1,2-dichloroethene		Acetone
			cis-1,2-dichloroethene
			Vinyl Chloride
MW-20**	Arsenic	MW-20**	Arsenic
	Barium		Barium
	Benzene		Zinc
	Chloroethane		Benzene
			Chlorobenzene
			Chloroethane

* = Assessment Monitoring Well

** = Corrective Action Monitoring Well

*** = Field Sampling Error

Spring 2019		Fall 2019	
MW-3*	Selenium	MW-3*	Selenium
MW-7*	None	MW-7*	Arsenic
MW-10*	None	MW-10*	Arsenic
MW-16*	1,1-dichloroethane	MW-16*	Arsenic
	1,4-dichlorobenzene		Barium
	Benzene		1,1-dichloroethane
	Chlorobenzene		Chlorobenzene
	cis-1,2-dichloroethene		
	Dichlorodifluoromethane		
	Vinyl Chloride		
MW-18**	Arsenic	MW-18**	Arsenic
	Barium		Barium
MW-19*	None	MW-19*	Acetone
MW-20**	Arsenic	MW-20**	Arsenic
	Barium		Barium
	Benzene		Zinc
	Chloroethane		Benzene
			Chloroethane

* = Assessment Monitoring Well

** = Corrective Action Monitoring Well

*** = Field Sampling Error

Spring 2020		Fall 2020	
MW-3*	None	MW-3*	Selenium
MW-7*	None	MW-7*	Arsenic
MW-10*	Arsenic	MW-10*	None
	Barium		
	Bis(2ethylhexyl)phthalate		
MW-16*	Arsenic	MW-16*	Arsenic
	Barium		Barium
	Benzene		1,4-dichlorobenzene
	Chlorobenzene		Chlorobenzene
MW-18**	Arsenic	MW-18**	Arsenic
	Barium		
MW-19*	Arsenic	MW-19*	1,1-dichloroethane
			Acetone
			cis-1,2-dichloroethene
			Vinyl Chloride
MW-20**	Arsenic	MW-20**	Arsenic
	Barium		Barium
	Benzene		Chlorobenzene
	Chlorobenzene		Chloroethane
	Chloroethane		

* = Assessment Monitoring Well

** = Corrective Action Monitoring Well

*** = Field Sampling Error

Spring 2021		Fall 2021	
MW-3*	None	MW-3*	Bis(2ethylhexyl)phthalate
MW-7*	1,1-dichloropropene	MW-7*	Benzene
	2,4,5-T		
MW-10*	Arsenic	MW-10*	None
	Barium		
	Acetone		
MW-16*	Arsenic	MW-16*	Arsenic
	Barium		Barium
	1,1-dichloroethane		1,4-dichlorobenzene
	1,4-dichlorobenzene		Benzene
	Benzene		Chlorobenzene
	Chlorobenzene		
	cis-1,2-dichloroethene		
MW-18**	Arsenic	MW-18**	Arsenic
MW-19*	Arsenic	MW-19*	1,1-dichloroethane
	1,1-dichloroethane		cis-1,2-dichloroethene
	cis-1,2-dichloroethene		Vinyl Chloride
	Vinyl Chloride		
MW-20**	Arsenic	MW-20**	Arsenic
	Barium		Barium
	Benzene		Benzene
	Chlorobenzene		Bis(2ethylhexyl)phthalate
	Chloroethane		Chlorobenzene
			Chloroethane

* = Assessment Monitoring Well

** = Corrective Action Monitoring Well

*** = Field Sampling Error

Spring 2022		Fall 2022	
MW-3*	Copper	MW-3*	Selenium
MW-7*	None	MW-7*	Arsenic
			Bis(2ethylhexyl)phthalate
MW-10*	Many Metals ***	MW-10*	None
MW-16*	Arsenic	MW-16*	Chlorobenzene
	Barium		
	1,1-dichloroethane		
	1,2-dichloropropane		
	1,4-dichlorobenzene		
	Benzene		
	Chlorobenzene		
	cis-1,2-dichloroethene		
MW-18**	Arsenic	MW-18**	Arsenic
MW-19*	1,1-dichloroethane	MW-19*	1,1-dichloroethane
	Benzene		Benzene
	Chloroethane		Chloroethane
	cis-1,2-dichloroethene		cis-1,2-dichloroethene
	Vinyl Chloride		Vinyl Chloride
MW-20**	Arsenic	MW-20**	Arsenic
	Barium		Barium
	Acetone		Benzene
	Benzene		Chlorobenzene
	Bis(2ethylhexyl)phthalate		Chloroethane
	Chlorobenzene		
	Chloroethane		

* = Assessment Monitoring Well

** = Corrective Action Monitoring Well

*** = Field Sampling Error

Spring 2023		Fall 2023	
MW-1d	Benzene	MW-1d	Benzene
	Chloroethane		Chloroethane
MW-3*	Selenium	MW-3*	None
MW-7*	None	MW-7*	Arsenic
MW-16*	Chlorobenzene	MW-16*	None
MW-18**	Arsenic	MW-18**	Arsenic
	Barium		
MW-19*	1,1-dichloroethane	MW-19*	1,1-dichloroethane
	cis-1,2-dichloroethene		cis-1,2-dichloroethene
	Vinyl Chloride		Vinyl Chloride
MW-20**	Arsenic	MW-20**	Arsenic
	Barium		Barium
	Benzene		Benzene
			Chlorobenzene
			Chloroethane

Spring 2024		Fall 2024	
MW-1d*	Barium	MW-1d*	None
	Benzene		
	Chlorobenzene		
	Chloroethane		
MW-7*	None	MW-7*	Arsenic
MW-16*	Arsenic	MW-16*	Arsenic
	1,1-dichloroethane		Chlorobenzene
	1,4-dichlorobenzene		
	Benzene		
	Chlorobenzene		
MW-18**	Arsenic	MW-18**	Arsenic
MW-19*	1,1-dichloroethane	MW-19R*	1,1-dichloroethane
	cis-1,2-dichloroethene		cis-1,2-dichloroethene
MW-20**	Arsenic	MW-20**	Arsenic
	Barium		Barium
	Benzene		Benzene
	Chlorobenzene		Chlorobenzene
	Chloroethane		

* = Assessment Monitoring Well

** = Corrective Action Monitoring Well

Spring 2025		Fall 2025	
MW-1d*	None	MW-1d*	None
MW-3*	Cadmium	MW-3*	None
MW-7*	Arsenic	MW-7*	Arsenic
	Cadmium		
MW-10*	Arsenic	MW-10*	None
	Bis(2ethylhexyl)phthalate		
MW-16*	Arsenic	MW-16*	Arsenic
	1,1-dichloroethane		Barium
	1,4-dichlorobenzene		1,4-dichlorobenzene
	Benzene		Chlorobenzene
	Chlorobenzene		
	cis-1,2-dichloroethene		
MW-18**	Arsenic	MW-18**	Arsenic
	Copper		
MW-19R*	1,1-dichloroethane	MW-19R*	1,1-dichloroethane
	cis-1,2-dichloroethene		cis-1,2-dichloroethene
MW-20**	Arsenic	MW-20**	Arsenic
	Barium		Barium
	Copper		Benzene
	Zinc		Chlorobenzene
	Benzene		

* = Assessment Monitoring Well

** = Corrective Action Monitoring Well

Appendix F

Summary of Assessment Monitoring Results

The full Appendix II sample events are highlighted in green.

Date	bis(2ethylhexyl)phthalate (ug/L)				
	MW-3	MW-7	MW-10	MW-16	MW-19
9/7/14	NT	NT	NT	NT	NT
4/28/15	NT	NT	NT	NT	NT
10/6/15	NT	NT	NT	NT	NT
4/23/16	NT	NT	NT	NT	NT
9/1/16	<8	NT	NT	<8	NT
3/21/17	NT	NT	NT	NT	<8
10/13/17	NT	NT	NT	NT	NT
3/9/18	NT	NT	NT	NT	NT
9/6/18	NT	NT	8.0	NT	NT
3/7/19	NT	NT	<6	NT	NT
9/26/19	NT	NT	<6	NT	NT
4/2/20	NT	NT	14.0	NT	NT
9/17/20	NT	NT	<6	NT	NT
3/25/21	NT	<6	<6	NT	NT
9/16/21	8.0	NT	<6	<6	NT
3/16/22	<6	NT	NT	NT	<6
9/1/22	NT	9.0	NT	NT	NT
3/24/23	NT	<6	NT	NT	NT
9/7/2023	NT	NT	NT	NT	NT
3/18/2024	NT	NT	Partial sample	NT	NT
9/25/2024	NT	NT	Partial sample	NT	NT
3/10/2025	NT	NT	10.0	NT	NT
9/8/2025	NT	NT	NT	NT	NT

Date	bis(2ethylhexyl)phthalate (ug/L)		
	MW-18	MW-20	MW-1d
9/7/14	NT	NT	NT
4/28/15	NT	NT	NT
10/6/15	NT	NT	NT
4/23/16	NT	NT	NT
9/1/16	<8	<8	NT
3/21/17	NT	NT	NT
10/13/17	NT	NT	NT
3/9/18	NT	NT	NT
9/6/18	NT	NT	NT
3/7/19	NT	NT	NT
9/26/19	NT	NT	NT
4/2/20	NT	NT	NT
9/17/20	NT	NT	NT
3/25/21	NT	NT	NT
9/16/21	<6	8.0	NT
3/16/22	NT	7.0	NT
9/1/22	NT	<6	NT
3/24/23	NT	NT	NT
9/7/2023	NT	NT	<6
3/18/2024	NT	NT	NT
9/25/2024	NT	NT	NT
3/10/2025	NT	NT	<6
9/8/2025	NT	NT	NT

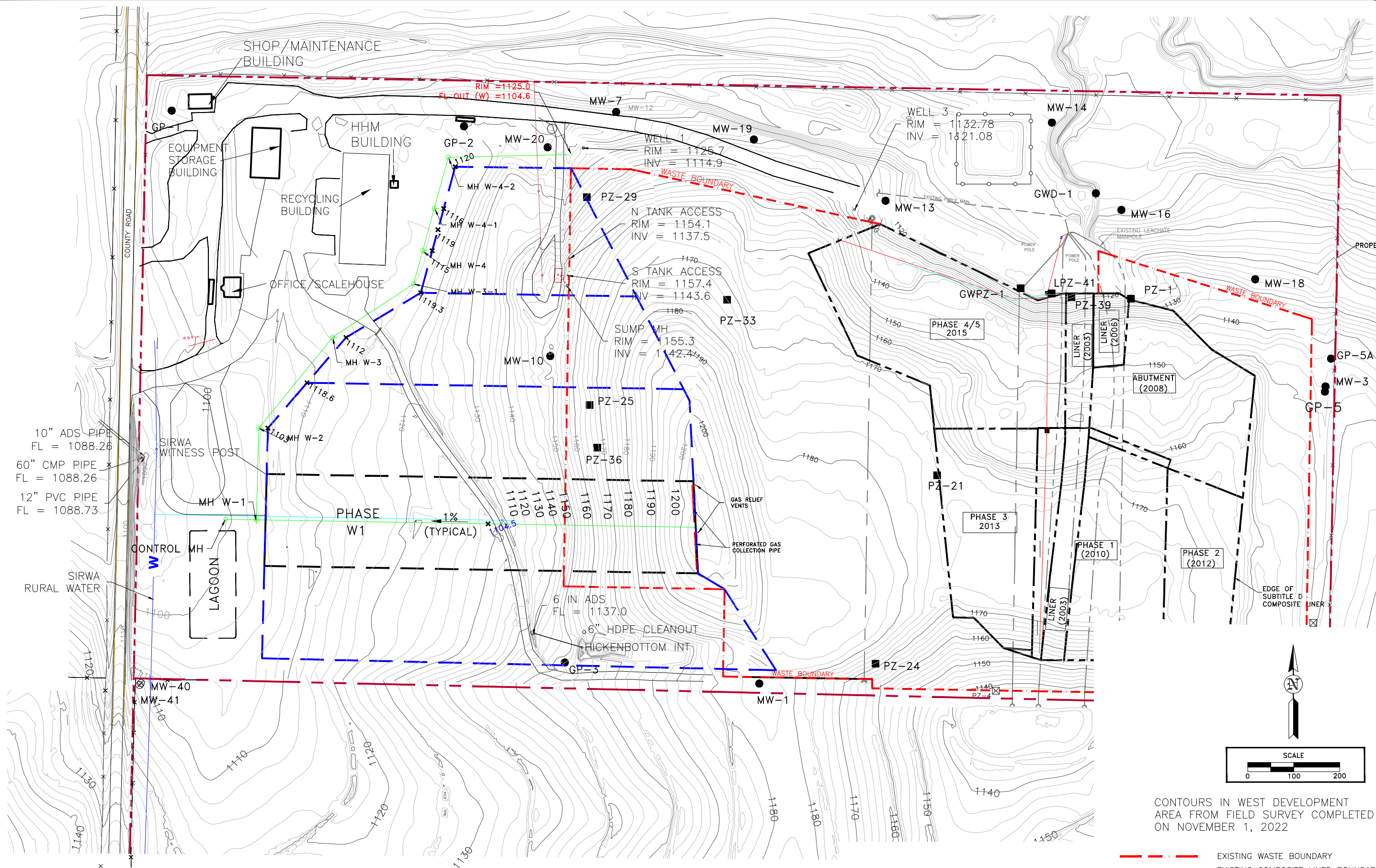
The full Appendix II sample events are highlighted in green.

Date	Dichlorodifluoromethane (ug/L)				
	MW-3	MW-7	MW-10	MW-16	MW-19
9/7/14	<1	NT	NT	3.6	<1
4/28/15	NT	NT	NT	2.6	NT
10/6/15	NT	NT	NT	2.9	NT
4/23/16	NT	NT	NT	3.2	NT
9/1/16	<1	NT	NT	3.6	NT
3/21/17	NT	NT	NT	2.2	1.0
10/13/17	NT	NT	NT	1.6	NT
3/9/18	NT	NT	NT	3.0	<1
9/6/18	NT	NT	<1	<1	<1
3/7/19	NT	NT	NT	4.6	NT
9/26/19	NT	NT	<1	<1	NT
4/2/20	NT	NT	NT	<1	NT
9/17/20	NT	NT	NT	<1	NT
3/25/21	NT	<1	NT	NT	NT
9/16/21	<1	NT	NT	<1	NT
3/16/22	NT	NT	NT	NT	<1
9/1/22	NT	<1	NT	NT	NT
3/24/2023	NT	NT	NT	NT	NT
9/7/2023	NT	NT	NT	NT	NT
3/18/2024	NT	NT	NT	NT	NT
9/25/2024	NT	NT	<1	NT	NT
3/10/2025	NT	NT	NT	NT	NT
9/8/2025	NT	NT	NT	NT	NT

Date	Dichlorodifluoromethane (ug/L)		
	MW-18	MW-20	MW-1d
9/7/14	NT	NT	NT
4/28/15	NT	NT	NT
10/6/15	NT	NT	NT
4/23/16	NT	NT	NT
9/1/16	<1	<1	NT
3/21/17	NT	NT	NT
10/13/17	NT	NT	NT
3/9/18	NT	NT	NT
9/6/18	NT	NT	NT
3/7/19	NT	NT	NT
9/26/19	NT	NT	NT
4/2/20	NT	NT	NT
9/17/20	NT	NT	NT
3/25/21	NT	NT	NT
9/16/21	<1	<1	NT
3/16/22	NT	NT	NT
9/1/22	NT	NT	NT
3/24/2023	NT	NT	NT
9/7/2023	NT	NT	<1
3/18/2024	NT	NT	NT
9/25/2024	NT	NT	NT
3/10/2025	NT	NT	<1
9/8/2025	NT	NT	NT

Appendix G

Expansion Area Cell and Infrastructure Layout



NOTES:
1. FOR MANHOLE DESIGN INFORMATION SEE
FIGURE 5.

- EXISTING WASTE BOUNDARY
- EXISTING COMPOSITE LINED BOUNDARY
- PROPERTY BOUNDARY
- PROPOSED WASTE BOUNDARY
- PROPOSED TOP OF LINER
- PROPOSED LEACHATE PIPING

CONTOURS IN WEST DEVELOPMENT
AREA FROM FIELD SURVEY COMPLETED
ON NOVEMBER 1, 2022

FIGURE: 1

NO.

DATE

REVISION

DRAWN JGH

PROJECT NO. 6047-22A

DATE 01/23/23

OVERALL SITE PLAN

WEST EXPANSION AREA

PAGE COUNTY SANITARY LANDFILL

PAGE COUNTY, IOWA

HLW Engineering Group

204 West Broad Street, P.O. Box 314

Story City, Iowa 50248

Phone: (515) 733-4144

FAX: (515) 733-4146

HLW

HLW Engineering Group

Appendix H

Leachate Collection System Performance Evaluation Report

Appendix H.1- Volumes Hauled to Treatment

Page County Landfill Leachate Hauling

2025	Coin Gallons	Clarinda Gallons
January	42,000	96,000
February	30,000	24,000
March	108,000	78,000
April	120,000	
May	90,000	
June	144,000	36,000
July	180,000	42,000
August	96,000	
September	138,000	
October	204,000	
November	138,000	
December	84,000	
GALLONS	1,374,000	276,000
TOTAL GALLONS		1,650,000

Appendix H.2-Treatment Agreements
Coin, Shenandoah, Clarinda



August 1, 2022

AMIE JOHNSON
CITY OF COIN
506 DEPOT STREET
PO BOX 324
COIN, IA 51636-0324

RE: NPDES Final Permit #7335001

Dear Ms. Johnson:

Enclosed is the final NPDES permit that authorizes the discharge of wastewater from the City of Coin's wastewater treatment facility. This final permit is the same as the draft permit sent on June 23, 2022. The issuance date of this permit is September 1, 2022; please become familiar with all limits and requirements in the enclosed final permit.

The facility will be required to use new discharge monitoring report (DMR) forms once a final permit is issued. Paper and electronic DMR forms are available from your regional Field Office. The facility is strongly encouraged to use the electronic reporting form. Please contact Dan Olson at 712-243-1934 (Field Office 4) or dan.olson@dnr.iowa.gov for more information or to request forms.

If you have any questions, please contact me at 515-452-6235 or at ryan.olive@dnr.iowa.gov.

Sincerely,

Ryan Olive
NPDES Section

Enclosures

IOWA DEPARTMENT OF NATURAL RESOURCES
National Pollutant Discharge Elimination System (NPDES) Permit

OWNER NAME & ADDRESS

CITY OF COIN
PO BOX 324
COIN, IA 51636

FACILITY NAME & ADDRESS

COIN CITY OF STP
H AVE & HACKBERRY AVE
COIN, IA 51636

Section 5, T67N, R38W
Page County

IOWA NPDES PERMIT NUMBER: 7335001
DATE OF ISSUANCE: 09/01/2022
DATE OF EXPIRATION: 08/31/2027

**YOU ARE REQUIRED TO FILE FOR RENEWAL
OF THIS PERMIT BY:** 03/04/2027
EPA NUMBER: IA0062332

This permit is issued pursuant to the authority of section 402(b) of the Clean Water Act (33 U.S.C. 1342(b)), Iowa Code section 455B.174, and rule 567-64.3, Iowa Administrative Code. You are authorized to operate the disposal system and to discharge the pollutants specified in this permit in accordance with the effluent limitations, monitoring requirements and other terms set forth in this permit.

Pursuant to rule 561-7.4, Iowa Administrative Code, you may appeal any condition of this permit by filing a written notice of appeal and request for administrative hearing with the director of the department within 60 days of permit issuance.

Any existing, unexpired Iowa operation permit or Iowa NPDES permit previously issued by the department for the facility identified above is revoked by the issuance of this permit. This provision does not apply to any authorization to discharge under the terms and conditions of a general permit issued by the department or to any permit issued exclusively for the discharge of stormwater.

FOR THE DEPARTMENT OF NATURAL RESOURCES

By _____

Ryan Olive
NPDES Section, Environmental Services Division

Facility Name: COIN CITY OF STP

Permit Number: 7335001

Outfall No.: 001 CONTROLLED DISCHARGE FROM A THREE CELL WASTE STABILIZATION LAGOON.

Receiving Stream: UNNAMED CREEK

Route of Flow: UNNAMED CREEK TO TARKIO RIVER

Class A1 waters are primary contact recreational use waters in which recreational or other uses may result in prolonged and direct contact with the water, involving considerable risks of ingesting water in quantities sufficient to pose a health hazard. Such activities would include, but not be limited to, swimming, diving, water skiing, and water contact recreational canoeing.

Waters designated Class B(WW1) are those in which temperature, flow and other habitat characteristics are suitable to maintain warm water game fish populations along with a resident aquatic community that includes a variety of native nongame fish and invertebrates species. These waters generally include border rivers, large interior rivers, and the lower segments of medium-size tributary streams.

Bypasses from any portion of a treatment facility or from a sanitary sewer collection system designed to carry only sewage are prohibited.

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Effluent Limitations:

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

001 CONTROLLED DISCHARGE FROM A THREE CELL WASTE STABILIZATION LAGOON.

Outfall: 001 Effective Dates: 09/01/2022 to 08/31/2027			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limits</u>
CBOD5		85% Removal Required	
	Yearly	7 Day Average	40 MG/L
	Yearly	30 Day Average	25 MG/L
TOTAL SUSPENDED SOLIDS			
	Yearly	7 Day Average	120 MG/L
	Yearly	30 Day Average	80 MG/L
PH			
	Yearly	Daily Maximum	9.0 STD UNITS
	Yearly	Daily Minimum	6.0 STD UNITS

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Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:

- (1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
- (2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

Facility Name: COIN CITY OF STP

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Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
The following monitoring requirements shall be in effect from 09/01/2022 to 08/31/2027				
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1 EVERY 3 MONTHS	24 HOUR COMPOSITE	RAW WASTE
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	RAW WASTE
001	CBOD5	PRIOR TO DISCHARGE	GRAB	PRE-DISCHARGE SAMPLE
001	TOTAL SUSPENDED SOLIDS	PRIOR TO DISCHARGE	GRAB	PRE-DISCHARGE SAMPLE
001	AMMONIA NITROGEN (N)	TWICE PER DRAWDOWN	GRAB	FINAL EFFLUENT
001	CBOD5	TWICE PER DRAWDOWN	GRAB	FINAL EFFLUENT
001	E. COLI	TWICE PER DRAWDOWN	GRAB	FINAL EFFLUENT
001	FLOW	DAILY DURING DRAWDOWN	INSTANTANEOUS	FINAL EFFLUENT
001	PH	ONCE PER DRAWDOWN	GRAB	FINAL EFFLUENT
001	TOTAL SUSPENDED SOLIDS	TWICE PER DRAWDOWN	GRAB	FINAL EFFLUENT
001	CELL DEPTH	1 TIME PER WEEK	MEASUREMENT	CELL 3 CONTENTS
001	CELL DEPTH	1 TIME PER WEEK	MEASUREMENT	CELL 2 CONTENTS
001	CELL DEPTH	1 TIME PER WEEK	MEASUREMENT	CELL 1 CONTENTS

Facility Name: COIN CITY OF STP

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Special Monitoring Requirements

Outfall #	Description

001	E. COLI

If the effluent has been disinfected using chlorine, ultraviolet light (UV), or any other process intended to disrupt the biological integrity of the E. coli, the samples shall be analyzed using the Most Probable Number method found in Standard Method 9223B (Colilert® or Colilert-18® made by IDEXX Laboratories, Inc.). If the effluent has not been disinfected the samples may be analyzed using either the MPN method above or EPA Method 1603: Escherichia coli (E. coli) in water by membrane filtration using modified membrane-thermotolerant E. coli agar (modified mTEC) or mColiBlue-24® made by the Hach Company.

Facility Name: COIN CITY OF STP

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Significant Industrial User Discharges:

Significant Industrial User: PAGE COUNTY SANITARY LANDFILL ASSOCIATION

Outfall # Outfall Description

001 SANITARY LANDFILL LEACHATE WILL BE TRUCKED TO THE TREATMENT PLANT FOR DISPOSAL.

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

PAGE COUNTY SANITARY LANDFILL ASSOCIATION			
Outfall: 001 Effective Dates: 09/01/2022 to 08/31/2027			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
FLOW			
	Yearly	30 Day Average	0.0175 MGD
	Yearly	DAILY MAXIMUM	0.0220 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	25 LBS/DAY
	Yearly	DAILY MAXIMUM	45 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	25 LBS/DAY
	Yearly	DAILY MAXIMUM	45 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	10 LBS/DAY
	Yearly	DAILY MAXIMUM	15 LBS/DAY
PH			
	Yearly	DAILY MAXIMUM	9.0 STD UNITS
	Yearly	DAILY MINIMUM	5.8 STD UNITS

Facility Name: COIN CITY OF STP

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Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:

- (1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
- (2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

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PAGE COUNTY SANITARY LANDFILL ASSOCIATION

Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
001	AMMONIA NITROGEN (N)	1 EVERY 3 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1 EVERY 3 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	1 EVERY BATCH	ESTIMATED	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SANITARY LANDFILL LEACHATE	1 EVERY 12 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1 EVERY 3 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

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ADDITIONAL MONITORING REQUIREMENTS

PAGE COUNTY SANITARY LANDFILL ASSOCIATION

The permittee shall analyze a representative sample of the landfill leachate discharge from Page County Sanitary Landfill Association at least annually for each of the pollutants listed below. In addition, the permittee shall monitor the volume of waste discharged and BOD5, TSS, pH, and Ammonia Nitrogen at the frequencies specified on page 9 of this permit.

Pollutant

Biochemical Oxygen Demand (BOD5)

Total Suspended Solids

Ammonia Nitrogen (NH3-N)

Oil and Grease (O&G)

pH

Chloride (as Cl)

Sulfate (as SO4)

Arsenic, Total (as As)

Chromium, Total (as Cr)

Copper, Total (as Cu)

Iron, Total (as Fe)

Lead, Total (as Pb)

Nickel, Total (as Ni)

Selenium, Total (as Se)

Zinc, Total (as Zn)

Benzoic Acid

Chlorobenzene

Ethylbenzene

p-Cresol

Phenol

Toluene

The permittee will indicate completion of the annual leachate monitoring by entering a “1” in the “LEACHAT” column on the Discharge Monitoring Report (DMR) spreadsheet on the day that the samples are collected. Select the No Discharge Indicator “NOT REQUIRED/MP” on the DMR spreadsheet during the months that the monitoring is not required.

Results of annual monitoring shall be submitted to the addresses below:

NPDES.mail@dnr.iowa.gov

Subject: Landfill Leachate Scan (7335001)

Iowa DNR Field Office 4

1401 Sunnyside Ln.

Atlantic, IA 50022

Facility Name: COIN CITY OF STP

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Design Capacity

Design: 1

The design capacity for the treatment works is specified in Construction Permit Number 76-482-S, issued June 11, 1976. The treatment plant is designed to treat:

- * An average dry weather (ADW) flow of 0.035 Million Gallons Per Day (MGD).
- * An average wet weather (AWW-180) flow of 0.035 Million Gallons Per Day (MGD).
- * A maximum wet weather (MWW) flow of 0.035 Million Gallons Per Day (MGD).
- * A design 5-day biochemical oxygen demand (BOD5) load of 60 lbs/day.

Operator Certification Type/Grade: WL/IL

Wastes in such volumes or quantities as to exceed the design capacity of the treatment works or reduce the effluent quality below that specified in the operation permit of the treatment works are considered to be a waste which interferes with the operation or performance of the treatment works and are prohibited by subrule IAC 567-62.1(7).

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SEWAGE SLUDGE HANDLING AND DISPOSAL REQUIREMENTS

"Sewage sludge" is solid, semisolid, or liquid residue generated during the treatment of domestic sewage in a treatment works. Sewage sludge does not include the grit and screenings generated during preliminary treatment.

1. The permittee shall comply with all existing Federal and State laws and regulations that apply to the use and disposal of sewage sludge and with technical standards developed pursuant to Section 405(d) of the Clean Water Act when such standards are promulgated. If an applicable numerical limit or management practice for pollutants in sewage sludge is promulgated after issuance of this permit that is more stringent than a sludge pollutant limit or management practice specified in existing Federal or State laws or regulations, this permit shall be modified, or revoked and reissued, to conform to the regulations promulgated under Section 405(d) of the Clean Water Act. The permittee shall comply with the limitation no later than the compliance deadline specified in the applicable regulations.
2. The permittee shall provide written notice to the Department of Natural Resources prior to any planned changes in sludge disposal practices.
3. Land application of sewage sludge shall be conducted in accordance with criteria established in rule IAC 567 67.1 through 67.11 (455B).

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Controlled Discharge Lagoon Operation and Sampling Procedures

OPERATION REQUIREMENTS

Continuous discharge of wastewater from this facility is prohibited. The treatment plant must be operated using a storage/drawdown mode of operating. Wastewater must be stored for approximately 180 days after which time the water level is to be lowered to make room for the next storage period. Acceptable discharge periods are April 15th through June 15th and October 1st through December 21st. Lagoon drawdown shall occur during these periods except in emergency situations. The permittee is required to contact the local DNR Field Office and obtain prior approval if there is a need to discharge during other times of the year, when stream flows are low or if the effluent limitations specified in this permit will not be met. Lagoon drawdown at a rate greater than 10 times the 180 day AWW design flow is prohibited.

PRE-DISCHARGE SAMPLING

The permittee is responsible for complying with the limits contained in this permit. Therefore, a grab sample of the lagoon cell contents collected at a point near the outlet structure shall be analyzed at least two weeks prior to an anticipated discharge to demonstrate that the wastewater is of such quality to meet the effluent limitations in the permit. The permittee must have the sample analyzed for 5-day carbonaceous biochemical oxygen demand (CBOD5) and total suspended solids (TSS). The results must be compared with the 30-day average effluent limits. If the results are less than the 30-day average limits, the permittee may isolate the final cell and draw down the lagoon cell. If the pre-discharge sample results exceed the 30-day average effluent limits for either CBOD5 or TSS, the permittee must contact the local DNR Field Office for guidance before beginning to discharge.

Report pre-discharge sample results in the spaces provided on the monthly operation report form.

EFFLUENT SAMPLING

The permittee must collect and analyze a sample of the final effluent on the third day after discharge begins for all parameters for which monitoring of the final effluent is specified on the page titled MONITORING AND REPORTING REQUIREMENTS. Subsequent samples shall be taken at the specified frequencies. For final effluent samples that are required to be taken twice during drawdown, the first sample shall be taken the third day after the drawdown begins, and the second sample shall be taken between three (3) and five (5) days before the drawdown ends. Report the results on the discharge monitoring report (DMR) form in the columns provided for effluent monitoring. The results must be reported for the days the samples were collected, not for the days the sample results were received from the laboratory.

Revised: April 10, 2013

Facility Name: COIN CITY OF STP

Permit Number: 7335001

SIGNIFICANT INDUSTRIAL USER LIMITATIONS, MONITORING AND REPORTING REQUIREMENTS

1. You must enforce the pollutant limits for each significant industrial user that are listed elsewhere in this permit. Violation of a treatment agreement limit is prohibited by subrule 567 IAC 62.1(6). Monitoring of each significant industrial user is required elsewhere in this permit.
2. Monitoring of each significant industrial user is required elsewhere in this permit. Results of the required monitoring shall be included on your discharge monitoring report, which must be submitted by the fifteenth of the following month.
3. You are required to notify the department, in writing, of any of the following:
 - (a) 180 days prior to the introduction of pollutants to your facility from a significant industrial user. A significant industrial user means an industrial user of a treatment works that:
 - (1) Discharges an average of 25,000 gallons per day or more of process wastewater excluding sanitary, noncontact cooling and boiler blowdown wastewater;
 - (2) Contributes a process waste stream which makes up five percent or more of the average dry weather hydraulic or organic capacity of the publicly-owned treatment works;
 - (3) Is subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N; or
 - (4) Is designated by the department as a significant industrial user on the basis that the contributing industry, either singly or in combination with other contributing industries, has a reasonable potential for adversely affecting the operation of or effluent quality from the publicly-owned treatment works or for violating any pretreatment standards or requirements.
 - (b) 60 days prior to a proposed expansion, production increase or process modification that may result in the discharge of a new pollutant or a discharge in excess of limitations stated in the existing treatment agreement.
 - (c) 10 days prior to any commitment by you to accept waste from any new significant industrial user. Your written notification must include a new or revised treatment agreement in accordance with rule 64.3(5)(455B).
4. You shall require all users of your facility to comply with Sections 204(b), 307, and 308 of the Clean Water Act.
 - (a) Section 204(b) requires that all users of the treatment works constructed with funds provided under Sections 201(g) or 601 of the Act to pay their proportionate share of the costs of operation, maintenance and replacement of the treatment works.
 - (b) Section 307 of the Act requires users to comply with pretreatment standards promulgated by EPA for pollutants that would cause interference with the treatment process or would pass through the treatment works.
 - (c) Section 308 of the Act requires users to allow access at reasonable times to state and EPA inspectors for the purpose of sampling the discharge and reviewing and copying records.

STANDARD CONDITIONS

1. **ADMINISTRATIVE RULES** - Rules of the Iowa Department of Natural Resources (department) that govern the operation of a facility in connection with this permit are published in Part 567 of the Iowa Administrative Code (IAC) in Chapters 60-65, 67, and 121. Reference to the term “rule” in this permit means the designated provision of Part 567 of the IAC. Reference to the term “CFR” means the Code of Federal Regulations.
2. **LIMIT DEFINITIONS** -
 - (a) 7 day average means the arithmetic mean (average) of pollutant parameter values for samples collected in a period of seven consecutive days. The first 7-day period shall begin with the first day of the month. *{567 IAC 60.2}*
 - (b) 30 day average means the arithmetic mean of pollutant parameter values for samples collected in a period of 30 consecutive days. *{567 IAC 60.2}*
 - (c) Daily maximum means the total discharge by mass, volume, or concentration during a twenty-four hour period. *{567 IAC 60.2}*
3. **MONITORING AND RECORDS OF OPERATION** -
 - (a) Electronic reporting. Records of operation required by this permit shall be electronically submitted to the department within 15 days following the close of the monthly reporting period, in accordance with the monitoring requirements incorporated in this permit, unless an approval for paper submittal of records of operation has been obtained in accordance with 567 IAC 63.7(2).
 - (b) Maintenance of records. You shall retain for a minimum of three years all paper and electronic records of monitoring activities and results including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records. *{567 IAC 63.2(3)}*
 - (c) Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than two years, or both. *{40 CFR 122.41(j)(5)}*
4. **USE OF CERTIFIED LABORATORIES** - Analyses of wastewater, groundwater or sewage sludge that are required to be submitted as a result of this permit must be performed by a laboratory certified by the State of Iowa. Routine, on-site monitoring for pH, temperature, dissolved oxygen, total residual chlorine and other pollutants that must be analyzed immediately upon sample collection, physical measurements, and operational performance monitoring specified in 567 IAC 63.3(4) are excluded from this requirement. *{567 IAC 63.1}*
5. **DUTY TO PROVIDE INFORMATION** - You must furnish to the director, within a reasonable time, any information the director may request to determine compliance with this permit or determine whether cause exists for amending, revoking and reissuing, or terminating this permit, in accordance with 567 IAC 64.3(11)“c”. You must also furnish to the director, upon request, copies of any records required to be kept by this permit. If you become aware that you failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, you must promptly submit such facts or information. If you become aware that you failed to submit any relevant facts in any report to the director, including records of operation, you shall promptly submit such facts or information. *{567 IAC 60.4(2)“a”, 567 IAC 63.7(6), 40 CFR 122.41(h)}*
6. **DUTY TO REAPPLY AND PERMIT CONTINUATION** - If you wish to continue to discharge after the expiration date of this permit, you must file a complete application for reissuance at least 180 days prior to the expiration date of this permit. If a timely and sufficient application is submitted, this permit will remain in effect until the department makes a final determination on the permit application. *{567 IAC 64.8(1), Iowa Code 17A.18}*
7. **DUTY TO COMPLY** - You must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Issuance of this permit does not relieve you of the responsibility to comply with all local, state and federal laws, ordinances, regulations or other legal requirements applying to the operation of your facility. *{567 IAC 64.7(4)“e”, 40 CFR 122.41(a)}*
8. **DUTY TO MITIGATE** - You shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. *{See 567 IAC 64.7(7)“i”, 40 CFR 122.41(d)}*
9. **PROPER OPERATION AND MAINTENANCE** - All facilities and control systems shall be operated as efficiently as possible and maintained in good working order. A sufficient number of staff, adequately trained and knowledgeable in the operation of your facility, shall be retained at all times. Adequate laboratory controls and appropriate quality assurance procedures shall be provided to maintain compliance with the conditions of this permit. *{567 IAC 64.7(7)“f”, 40 CFR 122.41(e)}*
10. **SIGNATORY REQUIREMENTS** - Applications, discharge monitoring reports, or other information submitted to the department in connection with this permit must be signed and certified in accordance with 567 IAC 64.3(8).
11. **TRANSFER OF TITLE OR OWNER ADDRESS CHANGE** - If title to your facility, or any part of it, is transferred, the new owner shall be subject to this permit. You are required to notify the new owner of the requirements of this permit in writing prior to any transfer of title. The department shall be notified in writing within 30 days of the occurrence. No transfer of the authorization to discharge from the facility represented by the permit shall take place prior to notifying the department of the transfer of title. Whenever the address of the owner is changed, the department shall be notified in writing within 30 days of the address change. *{567 IAC 64.14}*

STANDARD CONDITIONS

- 12. PERMIT MODIFICATION, SUSPENSION OR REVOCATION** - This permit may be amended, revoked and reissued, or terminated in whole or in part for cause including, but not limited to, those specified in 567 IAC 64.3(11)“b”. This permit may be modified due to conditions or information on which this permit is based, including any new standard the department may adopt that would change the required effluent limits. If a toxic pollutant is present in your discharge and more stringent standards for toxic pollutants are established under Section 307(a) of the Clean Water Act, this permit will be modified in accordance with the new standards. The filing of a request for a permit amendment, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. *{567 IAC 64.3(11) and 64.7(7)“g”, 40 CFR 122.62(a)(6)}*
- 13. TWENTY-FOUR HOUR REPORTING** - You shall report any noncompliance that may endanger human health or the environment, including, but not limited to, violations of maximum daily limits for any toxic pollutant (listed as toxic under 307(a)(1) of the Clean Water Act) or hazardous substance (as designated in 40 CFR Part 116 pursuant to 311 of the Act). Information shall be provided orally to the appropriate regional field office of the department within 24 hours from the time you become aware of the circumstances. A written submission that includes a description of noncompliance and its cause; the period of noncompliance including exact dates and times, whether the noncompliance has been corrected or the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent a reoccurrence of the noncompliance must be provided to the appropriate field office within 5 days of the occurrence. *{567 IAC 63.12}*
- 14. OTHER NONCOMPLIANCE** - You shall report all instances of noncompliance not reported under Condition #13 at the time discharge monitoring reports are submitted. The report shall contain the information listed in Condition #13. You shall give advance notice to the appropriate regional field office of the department of any planned activity which may result in noncompliance with permit requirements. Notice is required only when previous notice has not been given to any other section of the department. *{567 IAC 63.7(5) and 63.14}*
- 15. INSPECTION OF PREMISES, RECORDS, EQUIPMENT, METHODS AND DISCHARGES** - You are required to permit authorized personnel to:
- (a) Enter upon the premises where a regulated facility or activity is located or conducted or where records are kept under conditions of this permit;
 - (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - (c) Inspect, at reasonable times, any facilities, equipment, practices or operations regulated or required under this permit; and
 - (d) Sample or monitor, at reasonable times, to assure compliance or as otherwise authorized by the Clean Water Act.
- {40 CFR 122.41(i)}*
- 16. NOTICE OF CHANGED CONDITIONS** - You are required to notify the director of any changes in existing conditions or information on which this permit is based, including, but not limited to, the following:
- (a) If your facility is a publicly owned treatment works (POTW) or otherwise accepts waste for treatment from an indirect discharger or industrial contributor, you must notify the director if there is any substantial change in the volume or character of pollutants being introduced to the POTW by an indirect discharger or industrial contributor. See 567 IAC 64.3(5) for further requirements. *{40 CFR 122.42(b)}*
 - (b) If your facility has a manufacturing, commercial, mining, or silviculture discharge, you must notify the director as soon as you know or have reason to believe that any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in this permit. *{See 40 CFR 122.42(a)}*
 - (c) You must notify the director if you have begun or will begin to use or manufacture, as an intermediate or final product or byproduct, any toxic pollutant which was not reported in the permit application. *{40 CFR 122.21(g)(9)}*
- 17. PLANNED CHANGES** - You shall give notice to the appropriate regional field office of the department 30 days prior to any planned physical alterations or additions to the permitted facility. Facility expansions, production increases, or process modifications which result in new or increased discharges of pollutants must be reported by submission of a new permit application. If any modification of, addition to, or construction of a disposal system is to be made, you must first obtain a written construction permit from this department. In addition, no construction activity that will result in disturbance of one acre or more shall be initiated without first obtaining coverage under NPDES General Permit No. 2.
- Notice is required only when:
- (a) Notice has not been given to any other section of the department;
 - (b) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source as defined in 567 IAC 60.2;
 - (c) The alteration or addition results in a significant change in sludge use or disposal practices; or
 - (d) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to effluent limitations in the permit.
- {567 IAC 63.13, 567 IAC 64.2 and 64.7(7)“a”}*
- 18. FAILURE TO SUBMIT FEES** - This permit may be revoked, in whole or in part, if the appropriate permit fees are not submitted within thirty (30) days of the date of notification that such fees are due. *{567 IAC 64.16(1)}*

STANDARD CONDITIONS

- 19. BYPASSES** - “Bypass” means the diversion of waste streams from any portion of a treatment facility or collection system. A bypass does not include internal operational waste stream diversions that are part of the design of the treatment facility, maintenance diversions where redundancy is provided, diversions of wastewater from one point in a collection system to another point in a collection system, or wastewater backups into buildings that are caused in the building lateral or private sewer line.
- (a) Prohibitions.
 - i. Bypasses from any portion of a treatment facility or from a sanitary sewer collection system designed to carry only sewage are prohibited.
 - ii. The department may not assess a civil penalty against a permittee for a bypass if the permittee has complied with all of the following:
 - (1) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required by paragraph (d) of this section.
 - (c) The Director may approve an anticipated bypass after considering its adverse effects if the Director determines that it will meet the three conditions listed above and a request for bypass has been submitted to the appropriate regional field office of the department at least ten days prior to the expect event, in accordance with 567 IAC 63.6(2).
 - (d) Bypasses shall be reported in accordance with 567 IAC 63.6.
- {567 IAC 63.6}**
- 20. UPSETS** - “Upset” means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- (a) *Effect of an upset.* An upset constitutes an affirmative defense to the assessment of a civil penalty for noncompliance with technology-based permit effluent limitations if the requirements of paragraph (c) of this condition are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
 - (b) *Conditions necessary for demonstration of an upset.* A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed operating logs or other relevant evidence, that;
 - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated;
 - iii. The permittee submitted notice of the upset to the department in accordance with 567 IAC 63.6(3); and
 - iv. The permittee complied with any remedial measures required by the department in accordance with 567 IAC 63.6(6)“b”.
 - (c) *Burden of Proof.* In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
- {567 IAC 63.6}**
- 21. NEED TO HALT OR REDUCE ACTIVITY** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. **{567 IAC 64.7(7)“j”, 40 CFR 122.41(c)}**
- 22. PROPERTY RIGHTS** - This permit does not convey any property rights of any sort or any exclusive privilege. **{567 IAC 64.4(3)“b”, 40 CFR 122.41(g)}**
- 23. EFFECT OF A PERMIT** - Compliance with a permit during its term constitutes compliance, for purposes of enforcement, with Sections 301, 302, 306, 307, 318, 403 and 405(a)-(b) of the Clean Water Act, and equivalent limitations and standards set out in 567 IAC Chapters 61 and 62. **{567 IAC 64.4(3)“a”}**
- 24. SEVERABILITY** - The provisions of this permit are severable and if any provision or application of any provision to any circumstance is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding.



January 24, 2022

ROGER MCQUEEN - MAYOR
SHENANDOAH CITY
PO BOX 338
500 W CLARINDA AVE
SHENANDOAH, IOWA 51601

RE: NPDES Final Permit #3659001

To whom it may concern,

Enclosed is the final NPDES permit that authorizes the discharge of wastewater from the Shenandoah City wastewater treatment facility. This final permit is the same as the draft permit sent on November 30, 2021. The issuance date of this permit is February 1, 2022; please become familiar with all limits and requirements in the enclosed final permit.

The facility will be required to use new discharge monitoring report (DMR) forms. Paper and electronic DMR forms are available from your regional Field Office. The facility is strongly encouraged to use the electronic reporting form. Please contact Dan Olson at 712-243-1934 (Field Office 4) or dan.olson@dnr.iowa.gov for more information or to request forms.

If you have any questions, please contact me at 515-725-8418 or at derek.dusenbery@dnr.iowa.gov.

Sincerely,

Derek Dusenbery

Digitally signed by
Derek Dusenbery
Date: 2022.01.24
13:28:27 -06'00'

Derek Dusenbery
Environmental Specialist
NPDES Permit Writer

IOWA DEPARTMENT OF NATURAL RESOURCES

National Pollutant Discharge Elimination System (NPDES) Permit

OWNER NAME & ADDRESS

CITY OF SHENANDOAH
CITY HALL, P.O. BOX 338
SHENANDOAH, IA 51601

FACILITY NAME & ADDRESS

SHENANDOAH CITY OF STP
WEST OF TOWN OFF 190TH STREET AND
WEST SHERIDAN AVENUE
SHENANDOAH, IA 51601

Section 24, T69N, R40W
Fremont County

IOWA NPDES PERMIT NUMBER: 3659001

DATE OF ISSUANCE: 02/01/2022

DATE OF EXPIRATION: 01/31/2027

YOU ARE REQUIRED TO FILE FOR RENEWAL OF THIS

PERMIT BY: 08/04/2026

EPA NUMBER: IA0032328

This permit is issued pursuant to the authority of section 402(b) of the Clean Water Act (33 U.S.C. 1342(b)), Iowa Code section 455B.174, and rule 567-64.3, Iowa Administrative Code. You are authorized to operate the disposal system and to discharge the pollutants specified in this permit in accordance with the effluent limitations, monitoring requirements and other terms set forth in this permit.

You may appeal any condition of this permit by filing a written notice of appeal and request for administrative hearing with the director of the department within 30 days of permit issuance.

Any existing, unexpired Iowa operation permit or Iowa NPDES permit previously issued by the department for the facility identified above is revoked by the issuance of this permit. This provision does not apply to any authorization to discharge under the terms and conditions of a general permit issued by the department or to any permit issued exclusively for the discharge of stormwater.

FOR THE DEPARTMENT OF NATURAL RESOURCES

Derek

By **Dusenbery**

Derek Dusenbery
NPDES Section, Environmental Services Division

Digitally signed by Derek
Dusenbery
Date: 2022.01.24 12:24:00
-06'00'

Facility Name: SHENANDOAH CITY OF STP
Permit Number: 3659001

Outfall No.: 001 DISCHARGE FROM A TRICKLING FILTER WASTEWATER TREATMENT FACILITY.
Receiving Stream: UNNAMED CREEK
Route of Flow: UNNAMED CREEK TO EAST NISHNABOTNA RIVER

Class A2 waters are secondary contact recreational use waters in which recreational or other uses may result in contact with the water that is either incidental or accidental. During the recreational use, the probability of ingesting appreciable quantities of water is minimal. Class A2 uses include fishing, commercial and recreational boating, any limited contact incidental to shoreline activities and activities in which users do not swim or float in the water body while on a boating activity.

Waters designated Class B(WW2) are those in which flow or other physical characteristics are capable of supporting a resident aquatic community that includes a variety of native nongame fish and invertebrate species. The flow and other physical characteristics limit the maintenance of warm water game fish populations. These waters generally consist of small perennially flowing streams.

Outfall No.: 002 DISCHARGE TO GOLF COURSE IRRIGATION SYSTEM.
Receiving Stream: GOLF COURSE
Route of Flow: GOLF COURSE

Class A1 waters are primary contact recreational use waters in which recreational or other uses may result in prolonged and direct contact with the water, involving considerable risks of ingesting water in quantities sufficient to pose a health hazard. Such activities would include, but not be limited to, swimming, diving, water skiing, and water contact recreational canoeing.

Outfall No.: 003 BYPASS OF ETHANOL PLANT RETURN FLOW
Receiving Stream: UNNAMED CREEK
Route of Flow: UNNAMED CREEK TO EAST NISHNABOTNA RIVER

Class A2 waters are secondary contact recreational use waters in which recreational or other uses may result in contact with the water that is either incidental or accidental. During the recreational use, the probability of ingesting appreciable quantities of water is minimal. Class A2 uses include fishing, commercial and recreational boating, any limited contact incidental to shoreline activities and activities in which users do not swim or float in the water body while on a boating activity.

Waters designated Class B(WW2) are those in which flow or other physical characteristics are capable of supporting a resident aquatic community that includes a variety of native nongame fish and invertebrate species. The flow and other physical characteristics limit the maintenance of warm water game fish populations. These waters generally consist of small perennially flowing streams.

Bypasses from any portion of a treatment facility or from a sanitary sewer collection system designed to carry only sewage are prohibited.

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Effluent Limitations:

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

001 DISCHARGE FROM A TRICKLING FILTER WASTEWATER TREATMENT FACILITY.

Outfall: 001 Effective Dates: 02/01/2022 to 01/31/2027				
Parameter	Season	Limit Type	Limits	
CBOD5			85% Removal Required	
	Yearly	7 Day Average	40 MG/L	627 LBS/DAY
	Yearly	30 Day Average	25 MG/L	392 LBS/DAY
TOTAL SUSPENDED SOLIDS			85% Removal Required	
	Yearly	7 Day Average	45 MG/L	706 LBS/DAY
	Yearly	30 Day Average	30 MG/L	470 LBS/DAY
ACUTE TOXICITY, CERIODAPHNIA				
	Yearly	Daily Maximum	1 NO TOXICITY	
ACUTE TOXICITY, PIMEPHALES				
	Yearly	Daily Maximum	1 NO TOXICITY	
DISSOLVED OXYGEN				
	Yearly	Daily Minimum	5.0 MG/L	
PH				
	Yearly	Daily Maximum	9.0 STD UNITS	
	Yearly	Daily Minimum	6.5 STD UNITS	

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Outfall: 001 Effective Dates: 02/01/2022 to 04/30/2026				
Parameter	Season	Limit Type	Limits	
AMMONIA NITROGEN (N)				
	JAN	30 Day Average	19 MG/L	258 LBS/DAY
	JAN	Daily Maximum	19 MG/L	276 LBS/DAY
	FEB	30 Day Average	19 MG/L	266 LBS/DAY
	FEB	Daily Maximum	19 MG/L	266 LBS/DAY
	MAR	30 Day Average	18 MG/L	225 LBS/DAY
	MAR	Daily Maximum	18 MG/L	263 LBS/DAY
	APR	30 Day Average	10 MG/L	98 LBS/DAY
	APR	Daily Maximum	19 MG/L	273 LBS/DAY
	MAY	30 Day Average	9.0 MG/L	85 LBS/DAY
	MAY	Daily Maximum	18 MG/L	265 LBS/DAY
	JUN	30 Day Average	6.1 MG/L	59 LBS/DAY
	JUN	Daily Maximum	17 MG/L	253 LBS/DAY
	JUL	30 Day Average	7.0 MG/L	64 LBS/DAY
	JUL	Daily Maximum	21 MG/L	306 LBS/DAY
	AUG	30 Day Average	6.4 MG/L	59 LBS/DAY
	AUG	Daily Maximum	19 MG/L	281 LBS/DAY
	SEP	30 Day Average	6.9 MG/L	66 LBS/DAY
	SEP	Daily Maximum	20 MG/L	289 LBS/DAY
	OCT	30 Day Average	15 MG/L	135 LBS/DAY
	OCT	Daily Maximum	19 MG/L	276 LBS/DAY
	NOV	30 Day Average	17 MG/L	166 LBS/DAY
	NOV	Daily Maximum	17 MG/L	257 LBS/DAY
	DEC	30 Day Average	19 MG/L	195 LBS/DAY
	DEC	Daily Maximum	19 MG/L	280 LBS/DAY

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Outfall: 001 Effective Dates: 05/01/2026 to 01/31/2027				
Parameter	Season	Limit Type	Limits	
AMMONIA NITROGEN (N)				
	JAN	30 Day Average	3.4 MG/L	53.4 LBS/DAY
	JAN	Daily Maximum	15.2 MG/L	238.1 LBS/DAY
	FEB	30 Day Average	4.0 MG/L	62.0 LBS/DAY
	FEB	Daily Maximum	14.2 MG/L	222.6 LBS/DAY
	MAR	30 Day Average	3.4 MG/L	53.4 LBS/DAY
	MAR	Daily Maximum	14.7 MG/L	230.3 LBS/DAY
	APR	30 Day Average	1.5 MG/L	23.9 LBS/DAY
	APR	Daily Maximum	15.7 MG/L	246.2 LBS/DAY
	MAY	30 Day Average	1.7 MG/L	27.3 LBS/DAY
	MAY	Daily Maximum	15.2 MG/L	238.1 LBS/DAY
	JUN	30 Day Average	1.3 MG/L	20.5 LBS/DAY
	JUN	Daily Maximum	14.4 MG/L	226.4 LBS/DAY
	JUL	30 Day Average	1.0 MG/L	15.8 LBS/DAY
	JUL	Daily Maximum	14.3 MG/L	217.9 LBS/DAY
	AUG	30 Day Average	1.0 MG/L	15.0 LBS/DAY
	AUG	Daily Maximum	13.7 MG/L	208.5 LBS/DAY
	SEP	30 Day Average	1.1 MG/L	16.6 LBS/DAY
	SEP	Daily Maximum	16.5 MG/L	258.6 LBS/DAY
	OCT	30 Day Average	1.6 MG/L	24.4 LBS/DAY
	OCT	Daily Maximum	15.7 MG/L	246.2 LBS/DAY
	NOV	30 Day Average	2.3 MG/L	36.4 LBS/DAY
	NOV	Daily Maximum	14.7 MG/L	230.3 LBS/DAY
	DEC	30 Day Average	2.5 MG/L	38.8 LBS/DAY
	DEC	Daily Maximum	16.0 MG/L	250.3 LBS/DAY

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Outfall: 001 Effective Dates: 05/01/2026 to 01/31/2027			
Parameter	Season	Limit Type	Limits
E. COLI			
	MAR	Geometric Mean	134 #/100 ML
	APR	Geometric Mean	134 #/100 ML
	MAY	Geometric Mean	134 #/100 ML
	JUN	Geometric Mean	134 #/100 ML
	JUL	Geometric Mean	134 #/100 ML
	AUG	Geometric Mean	134 #/100 ML
	SEP	Geometric Mean	134 #/100 ML
	OCT	Geometric Mean	134 #/100 ML
	NOV	Geometric Mean	134 #/100 ML

Outfall: 001 Effective Dates: 01/01/2027 to 01/31/2027			
Parameter	Season	Limit Type	Limits
SELENIUM, TOTAL (AS SE)			
	Yearly	30 Day Average	0.005 MG/L 0.0784 LBS/DAY
	Yearly	Daily Maximum	0.0193 MG/L 0.3026 LBS/DAY
COPPER, TOTAL (AS CU)			
	Yearly	30 Day Average	0.01687 MG/L 0.2645 LBS/DAY
	Yearly	Daily Maximum	0.0269 MG/L 0.4217 LBS/DAY

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:

- (1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
- (2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
The following monitoring requirements shall be in effect from 02/01/2022 to 01/31/2027				
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	2 TIMES PER WEEK	24 HOUR COMPOSITE	RAW WASTE
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	RAW WASTE
001	NITROGEN, TOTAL (AS N)	1 TIME PER WEEK	24 HOUR COMPOSITE	RAW WASTE
001	NITROGEN, TOTAL KJELDAHL (AS N)	1 EVERY MONTH	24 HOUR COMPOSITE	RAW WASTE
001	PH	2 TIMES PER WEEK	GRAB	RAW WASTE
001	PHOSPHORUS, TOTAL (AS P)	1 TIME PER WEEK	24 HOUR COMPOSITE	RAW WASTE
001	TEMPERATURE	2 TIMES PER WEEK	GRAB	RAW WASTE
001	TOTAL SUSPENDED SOLIDS	1 TIME PER WEEK	24 HOUR COMPOSITE	RAW WASTE
001	<i>E. COLI</i>	SEE SPECIAL MONITORING	GRAB	EFFLUENT AFTER DISINFECTION - GEO MEAN
001	ACUTE TOXICITY, CERIODAPHNIA	1 EVERY 12 MONTHS	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	ACUTE TOXICITY, PIMEPHALES	1 EVERY 12 MONTHS	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	AMMONIA NITROGEN (N)	2 TIMES PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	CBOD5	2 TIMES PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	COPPER, TOTAL (AS CU)	1 EVERY MONTH	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	DISSOLVED OXYGEN	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
001	NITROGEN, TOTAL (AS N)	1 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	PH	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
001	PHOSPHORUS, TOTAL (AS P)	1 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	SELENIUM, TOTAL (AS SE)	1 EVERY MONTH	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	TEMPERATURE	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
001	TOTAL SUSPENDED SOLIDS	1 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	ZINC, TOTAL (AS ZN)	1 EVERY MONTH	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
002	FLOW	7/WEEK OR DAILY	24 HOUR COMPOSITE	PRIOR TO LAND APPLICATION
002	NITROGEN, TOTAL (AS N)	1 EVERY 2 MONTHS	24 HOUR COMPOSITE	PRIOR TO LAND APPLICATION

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Special Monitoring Requirements

Outfall Description

001 **E. COLI**

Except as specified in the effluent monitoring study portion of the compliance schedule in this permit, monitoring for *E. coli* is not required until the final *E. coli* limit is effective. All *E. coli* sample results must be reported in the Monthly Operation Report. If *E. coli* monitoring is not conducted during the time from the end of the effluent monitoring study to the final compliance date, the facility shall indicate on the Monthly Operation Report that monitoring is not required by using the "NOT REQ/MP" no discharge code.

The limit for *E. coli* specified in the limit pages of this permit is a geometric mean. The disinfection season is established in the Iowa Administrative Code, Subparagraph 567 IAC 61.3(3)"a"(1), and is in effect from March 15 to November 15. Any disinfection system (chlorine, UV light, etc.) shall be operated to comply with the limit during the entire disinfection season.

The facility must collect and analyze a minimum of five samples in one calendar month during each 3-month period from March 15 to November 15. The 3-month periods are March – May, June – August, and September – November. The collection of five samples in each 3-month period will result in a minimum of 15 samples being collected during a calendar year. For example, for the first 3-month period, the operator may choose April as the calendar month to collect the 5 individual *E. coli* samples to determine compliance with the limits. The operator may also choose the months of March or May as well, as long as each of the 5 samples is collected during a single calendar month. The same principle applies to the other two 3-month periods during the disinfection season. The following requirements apply to the individual samples collected in one calendar month:

Samples must be spaced over one calendar month.

No more than one sample can be collected on any one day.

There must be a minimum of two days between each sample.

No more than two samples may be collected in a period of seven consecutive days.

If the effluent has been disinfected using chlorine, ultraviolet light (UV), or any other process intended to disrupt the biological integrity of the *E. coli*, the samples shall be analyzed using the Most Probable Number method found in Standard Method 9223B (Colilert® or Colilert-18® made by IDEXX Laboratories, Inc.). If the effluent has not been disinfected the samples may be analyzed using either the MPN method above or EPA Method 1603: *Escherichia coli* (*E. coli*) in water by membrane filtration using modified membrane-thermotolerant *E. coli* agar (modified mTEC) or mColiBlue-24® made by the Hach Company.

The geometric mean must be calculated using all valid sample results collected during a month. The geometric mean formula is as follows: Geometric Mean = $(\text{Sample one} * \text{Sample two} * \text{Sample three} * \text{Sample four} * \text{Sample five} \dots \text{Sample N})^{(1/N)}$, which is the Nth root of the result of the multiplication of all of the sample results where N = the number of samples. If a sample result is a less than value, the value reported by the lab without the less than sign should be used in the geometric mean calculation.

The geometric mean can be calculated in one of the following ways:

Use a scientific calculator that can calculate the powers of numbers.

Enter the samples in Microsoft Excel and use the function "GEOMEAN" to perform the calculation.

Use the geometric mean calculator on the Iowa DNR webpage at:

<http://www.iowadnr.gov/Environmental-Protection/Water-Quality/NPDES-Wastewater-Permitting/NPDES-Operator-Information/Bacteria-Sampling>

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Special Monitoring Requirements - Continued

NITROGEN, TOTAL (AS N)

Total nitrogen shall be determined by testing for Total Kjeldahl Nitrogen (TKN) and nitrate + nitrite nitrogen and reporting the sum of the TKN and nitrate + nitrite results (reported as N). Nitrate + nitrite can be analyzed together or separately.

METALS

Sample and analyze your final effluent for parameters listed below at the frequency shown on the Monitoring and Reporting Requirements pages of this permit. EPA approved test methods shall be used to test at a detection level at or below the levels listed after each parameter. If a sample result is not at a detection level which is low enough to demonstrate compliance with the limit in the permit, the facility will be considered to be non-compliant with that limit.

Copper 0.01687 mg/L

Selenium 0.0050 mg/L

Zinc 0.2156 mg/L

FLOW (OUTFALL 002)

Disinfected effluent shall be held in a retention pond with a detention time of at least 20 days prior to reuse as irrigation on a golf course. For this purpose, effluent may be disinfected using any common treatment technology, and either an existing pond or a pond constructed specifically for effluent retention may be used.

Also, a golf course utilizing treated final effluent shall take all of the following actions:

- (1) Clearly state on all scorecards that treated final effluent is used for irrigation of the golf course and oral contact with golf balls and tees should be avoided;
- (2) Post signs that warn against consumption of water at all water hazards;
- (3) Color code, label, or tag all piping and sprinklers associated with the distribution or transmission of the treated final effluent to clearly warn against the consumptive use of the contents; and
- (4) Restrict the access of the public to any area of the golf course where spraying is being conducted.

GOLF COURSE

A minimum total residual chlorine level of 0.5 mg/l must be maintained at a minimum of 15 minutes contact time of chlorine to wastewater prior to the irrigation of the golf course with treatment plant effluent.

In addition, a golf course utilizing treated final effluent shall take all of the following actions:

- (1) Clearly state on all scorecards that treated final effluent is used for irrigation of the golf course and oral contact with golf balls and tees should be avoided;
- (2) Post signs that warn against consumption of water at all water hazards;
- (3) Color code, label, or tag all piping and sprinklers associated with the distribution or transmission of the treated final effluent to clearly warn against the consumptive use of the contents; and
- (4) Restrict the access of the public to any area of the golf course where spraying is being conducted.

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

ADDITIONAL OPERATING, MONITORING AND REPORTING REQUIREMENTS

In addition to the monitoring requirements specified elsewhere in this permit, you shall collect at least one grab sample of the final effluent from outfall 001 on a day when the plant is operating normally. The sample(s) you collect must be representative of the actual discharge and shall be analyzed for chloride, sulfate, and oil & grease using sufficiently sensitive methods (i.e., testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136.

For the purposes of this paragraph, an approved method is "sufficiently sensitive" when:

- (1) the method reporting limit is at or below 389 mg/L for chloride and 1,514 mg/L for sulfate; or
- (2) the level of the measured pollutant in the discharge is high enough that the method detects and quantifies the level of the pollutant in the discharge; or
- (3) the method has the lowest reporting limit of the approved analytical methods for the measured pollutant.

The lab report(s) with the analytical result(s) shall be submitted to the email address below no later than *[Insert date of 3 months from permit issuance]*. The analytical result(s) will be evaluated and the department will reopen this permit if it is determined that there is a reasonable potential for the discharge to cause or contribute to a water quality standards violation for cadmium or lead.

npdes.mail@dnr.iowa.gov

Subject: Additional Monitoring (3659001)

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Significant Industrial User Discharges:

Significant Industrial User: AMERICANA COMPANIES

Outfall # Outfall Description

001 PROCESS WASTEWATER PRIOR TO MIXING WITH ANY OTHER WASTES

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

Outfall: 001 Effective Dates: 02/01/2022 to 01/31/2027				
Parameter	Season	Limit Type	Limit Values	
FLOW				
	Yearly	30 Day Average	0.072 MGD	
	Yearly	DAILY MAXIMUM	0.072 MGD	
ZINC, TOTAL (AS ZN)				
	Yearly	30 Day Average	1.48 MG/L	0.888 LBS/DAY
	Yearly	DAILY MAXIMUM	2.61 MG/L	1.57 LBS/DAY
CADMIUM, TOTAL (AS CD)				
	Yearly	30 Day Average	0.07 MG/L	0.42 LBS/DAY
	Yearly	DAILY MAXIMUM	0.11 MG/L	0.07 LBS/DAY
CHROMIUM, TOTAL (AS CR)				
	Yearly	30 Day Average	1.01 MG/L	0.606 LBS/DAY
	Yearly	DAILY MAXIMUM	2.77 MG/L	1.66 LBS/DAY
CYANIDE, TOTAL (AS CN)				
	Yearly	30 Day Average	0.45 MG/L	0.270 LBS/DAY
	Yearly	DAILY MAXIMUM	1.20 MG/L	0.72 LBS/DAY
NICKEL, TOTAL (AS NI)				
	Yearly	30 Day Average	2.38 MG/L	1.42 LBS/DAY
	Yearly	DAILY MAXIMUM	3.90 MG/L	2.34 LBS/DAY

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Outfall: 001 Effective Dates: 02/01/2022 to 01/31/2027				
Parameter	Season	Limit Type	Limit Values	
OIL AND GREASE				
	Yearly	30 Day Average	50 MG/L	
	Yearly	DAILY MAXIMUM	100 MG/L	
SILVER, TOTAL (AS AG)				
	Yearly	30 Day Average	0.24 MG/L	0.144 LBS/DAY
	Yearly	DAILY MAXIMUM	0.43 MG/L	0.26 LBS/DAY
TOTAL TOXIC ORGANICS				
	Yearly	DAILY MAXIMUM	2.13 LBS/DAY	
COPPER, TOTAL (AS CU)				
	Yearly	30 Day Average	2.07 MG/L	1.24 LBS/DAY
	Yearly	DAILY MAXIMUM	3.28 MG/L	1.97 LBS/DAY
LEAD, TOTAL (AS PB)				
	Yearly	30 Day Average	0.43 MG/L	0.258 LBS/DAY
	Yearly	DAILY MAXIMUM	0.60 MG/L	0.36 LBS/DAY
PH				
	Yearly	DAILY MAXIMUM	10 STD UNITS	
	Yearly	DAILY MINIMUM	5 STD UNITS	

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:

- (1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
- (2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

AMERICANA COMPANIES				
Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
001	CADMIUM, TOTAL (AS CD)	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	CHROMIUM, TOTAL (AS CR)	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	COPPER, TOTAL (AS CU)	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	CYANIDE, TOTAL (AS CN)	1 EVERY MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	LEAD, TOTAL (AS PB)	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	NICKEL, TOTAL (AS NI)	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1 EVERY MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1 EVERY MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SILVER, TOTAL (AS AG)	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL TOXIC ORGANICS	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	ZINC, TOTAL (AS ZN)	1 TIME PER WEEK	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER

AMERICANA COMPANIES Special Monitoring Requirements

Outfall # Description

001 TOTAL TOXIC ORGANICS

In lieu of monitoring for total toxic organics (TTO), you may make the following certification statement on each monthly discharge report: "based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation or (pretreatment standard) for TTO. I certify that to the best on my knowledge and belief, no dumping of concentrated toxic organics into the wastewater has occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the solvent management plan submitted to the department of natural resources."

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Significant Industrial User Discharges:

Significant Industrial User: PAGE COUNTY SANITARY LANDFILL

Outfall # Outfall Description

001 Batch Discharge by Truck

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

Outfall: 001 Effective Dates: 02/01/2022 to 01/31/2027			
Parameter	Season	Limit Type	Limit Values
FLOW			
	Yearly	30 Day Average	0.022000 MGD
	Yearly	DAILY MAXIMUM	0.03000 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	9.174 LBS/DAY
	Yearly	DAILY MAXIMUM	25.02 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	18.35 LBS/DAY
	Yearly	DAILY MAXIMUM	50.04 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	12.843 LBS/DAY
	Yearly	DAILY MAXIMUM	35.03 LBS/DAY
PH			
	Yearly	30 Day Average	8.5 STD UNITS
	Yearly	DAILY MINIMUM	5.8 STD UNITS

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:

- (1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
- (2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

PAGE COUNTY SANITARY LANDFILL				
Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
001	AMMONIA NITROGEN (N)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	1 EVERY BATCH	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SANITARY LANDFILL LEACHATE	1 EVERY 12 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

ADDITIONAL MONITORING REQUIREMENTS

PAGE COUNTY SANITARY LANDFILL

The permittee shall analyze a representative sample of the landfill leachate discharge from Page County Sanitary Landfill at least annually for each of the pollutants listed below. In addition, the permittee shall monitor the volume of waste discharged and pH, Ammonia Nitrogen, BOD5, and TSS at the frequencies specified on page 18 of this permit.

Pollutant:

Biochemical Oxygen Demand (BOD5)	Total Suspended Solids
Ammonia Nitrogen (NH3-N)	Oil and Grease (O&G)
Ph	Chloride (as Cl)
Sulfate (as SO4)	Arsenic, Total (as As)
Chromium, Total (as Cr)	Copper, Total (as Cu)
Iron, Total (as Fe)	Lead, Total (as Pb)
Nickel, Total (as Ni)	Selenium, Total (as Se)
Zinc, Total (as Zn)	Benzoic Acid
Chlorobenzene	Ethylbenzene
p-Cresol	Phenol
Toluene	

The permittee will indicate completion of the annual leachate monitoring by entering a "1" in the "LEACHAT" column on the Discharge Monitoring Report (DMR) spreadsheet on the day that the samples are collected. Select the No Discharge Indicator "NOT REQUIRED/MP" on the DMR spreadsheet during the months that the monitoring is not required.

Results of annual monitoring shall be submitted to the addresses below:

NPDES.mail@dnr.iowa.gov
Subject: Landfill Leachate Scan (3659001)

Iowa DNR Field Office 4
1401 Sunnyside Ln.
Atlantic, IA 50022

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Significant Industrial User Discharges:

Significant Industrial User: FREMONT COUNTY SANITARY LANDFILL

Outfall # Outfall Description

001 Batch Discharge by Truck

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

Outfall: 001 Effective Dates: 02/01/2022 to 01/31/2027			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
FLOW			
	Yearly	30 Day Average	0.022000 MGD
	Yearly	DAILY MAXIMUM	0.030000 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	83.00 LBS/DAY
	Yearly	DAILY MAXIMUM	83.00 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	25.00 LBS/DAY
	Yearly	DAILY MAXIMUM	25.00 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	12.843 LBS/DAY
	Yearly	DAILY MAXIMUM	35.028 LBS/DAY
NITROGEN, TOTAL KJELDAHL (AS N)			
	Yearly	30 Day Average	33.36 LBS/DAY
	Yearly	DAILY MAXIMUM	33.36 LBS/DAY
PH			
	Yearly	DAILY MAXIMUM	9.5 STD UNITS
	Yearly	DAILY MINIMUM	5.5 STD UNITS

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:

- (1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
- (2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

FREMONT COUNTY SANITARY LANDFILL				
Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
001	AMMONIA NITROGEN (N)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	1 EVERY BATCH	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	NITROGEN, TOTAL KJELDAHL (AS N)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SANITARY LANDFILL LEACHATE	1 EVERY 12 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

ADDITIONAL MONITORING REQUIREMENTS

FREMONT COUNTY SANITARY LANDFILL

The permittee shall analyze a representative sample of the landfill leachate discharge from Fremont County Sanitary Landfill at least annually for each of the pollutants listed below. In addition, the permittee shall monitor the volume of waste discharged and pH, Ammonia Nitrogen, BOD5, and TSS at the frequencies specified on page 21 of this permit.

Pollutant:

Biochemical Oxygen Demand (BOD5)	Total Suspended Solids
Ammonia Nitrogen (NH3-N)	Oil and Grease (O&G)
Ph	Chloride (as Cl)
Sulfate (as SO4)	Arsenic, Total (as As)
Chromium, Total (as Cr)	Copper, Total (as Cu)
Iron, Total (as Fe)	Lead, Total (as Pb)
Nickel, Total (as Ni)	Selenium, Total (as Se)
Zinc, Total (as Zn)	Benzoic Acid
Chlorobenzene	Ethylbenzene
p-Cresol	Phenol
Toluene	

The permittee will indicate completion of the annual leachate monitoring by entering a "1" in the "LEACHAT" column on the Discharge Monitoring Report (DMR) spreadsheet on the day that the samples are collected. Select the No Discharge Indicator "NOT REQUIRED/MP" on the DMR spreadsheet during the months that the monitoring is not required. Results of annual monitoring shall be submitted to the addresses below:

NPDES.mail@dnr.iowa.gov
Subject: Landfill Leachate Scan (3659001)

Iowa DNR Field Office 4
1401 Sunnyside Ln.
Atlantic, IA 50022

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Significant Industrial User Discharges:

Significant Industrial User: GREEN PLAINS RENEWABLE ENERGY

Outfall # Outfall Description

001 DISCHARGE OF COOLING WATER

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

Outfall: 001 Effective Dates: 02/01/2022 to 01/31/2027			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
FLOW			
	Yearly	30 Day Average	0.230 MGD
	Yearly	DAILY MAXIMUM	0.3 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	30 LBS/DAY
	Yearly	DAILY MAXIMUM	45 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	35 LBS/DAY
	Yearly	DAILY MAXIMUM	45 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	3.0 LBS/DAY
	Yearly	DAILY MAXIMUM	10 LBS/DAY
NITROGEN, TOTAL KJELDAHL (AS N)			
	Yearly	30 Day Average	10 LBS/DAY
	Yearly	DAILY MAXIMUM	15 LBS/DAY
OIL AND GREASE			
	Yearly	30 Day Average	15 MG/L
	Yearly	DAILY MAXIMUM	30 MG/L
PH			
	Yearly	DAILY MAXIMUM	8.0 STD UNITS
	Yearly	DAILY MINIMUM	7.0 STD UNITS

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:

- (1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
- (2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

GREEN PLAINS RENEWABLE ENERGY				
Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
001	AMMONIA NITROGEN (N)	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	NITROGEN, TOTAL KJELDAHL (AS N)	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1 EVERY MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1 EVERY MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Outfall Number: 001

Ceriodaphnia and Pimephales Toxicity Effluent Testing

1. For facilities that have not been required to conduct toxicity testing by a previous NPDES permit, the initial annual toxicity test shall be conducted within three (3) months of permit issuance. For facilities that have been required to conduct toxicity testing by a previous NPDES permit, the initial annual toxicity test shall be conducted within twelve months (12) of the last toxicity test.
2. The test organisms that are to be used for acute toxicity testing shall be *Ceriodaphnia dubia* and *Pimephales promelas*. The acute toxicity testing procedures used to demonstrate compliance with permit limits shall be those listed in 40 CFR Part 136 and adopted by reference in rule 567 IAC 63.1(1). The method for measuring acute toxicity is specified in USEPA, October 2002, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition. USEPA, Office of Water, Washington, D.C., EPA 821-R-02-012.
3. The diluted effluent sample must contain a minimum of 100.00 % effluent and no more than 0.00 % of culture water.
4. One valid positive toxicity result will require, at a minimum, quarterly testing for effluent toxicity until three successive tests are determined not to be positive.
5. Two successive valid positive toxicity results or three positive results out of five successive valid effluent toxicity tests will require a toxicity reduction evaluation to be completed to eliminate the toxicity.
6. A non-toxic test result shall be indicated as a "1" on the monthly operation report. A toxic test result shall be indicated as a "2" on the monthly operation report. DNR Form 542-1381 shall also be submitted to the DNR field office along with the monthly operation report.

Ceriodaphnia and Pimephales Toxicity Effluent Limits

The maximum limit of "1" for the parameters Acute Toxicity, *Ceriodaphnia* and Acute Toxicity, *Pimephales* means no positive toxicity results.

Definition: "Positive toxicity result" means a statistical difference of mortality rate between the control and the diluted effluent sample. For more information, see USEPA, October 2002, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition, USEPA, Office of Water, Washington, D.C., EPA 821-R-02-012.

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Design Capacity

Design: 1

The design capacity for the treatment works is specified in Construction Permit Number 88-41-S, issued Thursday, 17 Oct 2002. The treatment plant is designed to treat:

- * An average dry weather (ADW) flow of 0.8670 Million Gallons Per Day (MGD).
- * An average wet weather (AWW) flow of 1.8800 Million Gallons Per Day (MGD).
- * A maximum wet weather (MWW) flow of 5.4000 Million Gallons Per Day (MGD).
- * A design 5-day biochemical oxygen demand (BOD5) load of 1,450 lbs/day.
- * A design Total Kjeldahl Nitrogen (TKN) load of 322.00 lbs/day.

Operator Certification Type/Grade: WW/III

Wastes in such volumes or quantities as to exceed the design capacity of the treatment works or reduce the effluent quality below that specified in the operation permit of the treatment works are considered to be a waste which interferes with the operation or performance of the treatment works and are prohibited by subrule IAC 567-62.1(7).

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

SEWAGE SLUDGE HANDLING AND DISPOSAL REQUIREMENTS

"Sewage sludge" is solid, semisolid, or liquid residue generated during the treatment of domestic sewage in a treatment works. Sewage sludge does not include the grit and screenings generated during preliminary treatment.

1. The permittee shall comply with all existing Federal and State laws and regulations that apply to the use and disposal of sewage sludge and with technical standards developed pursuant to Section 405(d) of the Clean Water Act when such standards are promulgated. If an applicable numerical limit or management practice for pollutants in sewage sludge is promulgated after issuance of this permit that is more stringent than a sludge pollutant limit or management practice specified in existing Federal or State laws or regulations, this permit shall be modified, or revoked and reissued, to conform to the regulations promulgated under Section 405(d) of the Clean Water Act. The permittee shall comply with the limitation no later than the compliance deadline specified in the applicable regulations.
2. The permittee shall provide written notice to the Department of Natural Resources prior to any planned changes in sludge disposal practices.
3. Land application of sewage sludge shall be conducted in accordance with criteria established in rule IAC 567 67.1 through 67.11 (455B).

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

SIGNIFICANT INDUSTRIAL USER LIMITATIONS, MONITORING AND REPORTING REQUIREMENTS

1. You must enforce the pollutant limits for each significant industrial user that are listed elsewhere in this permit. Violation of a treatment agreement limit is prohibited by subrule 567 IAC 62.1(6). Monitoring of each significant industrial user is required elsewhere in this permit.

You are required to notify the department, in writing, of any of the following:

(a) 180 days prior to the introduction of pollutants to your facility from a significant industrial user. A significant industrial user means an industrial user of a treatment works that:

- (1) Discharges an average of 25,000 gallons per day or more of process wastewater excluding sanitary, noncontact cooling and boiler blowdown wastewater;
- (2) Contributes a process waste stream which makes up five percent or more of the average dry weather hydraulic or organic capacity of the publicly-owned treatment works;
- (3) Is subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N; or
- (4) Is designated by the department as a significant industrial user on the basis that the contributing industry, either singly or in combination with other contributing industries, has a reasonable potential for adversely affecting the operation of or effluent quality from the publicly-owned treatment works or for violating any pretreatment standards or requirements.

(b) 60 days prior to a proposed expansion, production increase or process modification that may result in the discharge of a new pollutant or a discharge in excess of limitations stated in the existing treatment agreement.

(c) 10 days prior to any commitment by you to accept waste from any new significant industrial user. Your written notification must include a new or revised treatment agreement in accordance with rule 64.3(5)(455B).

2. You shall require all users of your facility to comply with Sections 204(b), 307, and 308 of the Clean Water Act.

(a) Section 204(b) requires that all users of the treatment works constructed with funds provided under Sections 201(g) or 601 of the Act to pay their proportionate share of the costs of operation, maintenance and replacement of the treatment works.

(b) Section 307 of the Act requires users to comply with pretreatment standards promulgated by EPA for pollutants that would cause interference with the treatment process or would pass through the treatment works.

(c) Section 308 of the Act requires users to allow access at reasonable times to state and EPA inspectors for the purpose of sampling the discharge and reviewing and copying records.

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Nutrient Reduction Requirements

In support of the Iowa Nutrient Reduction Strategy you shall prepare and submit a report that evaluates the feasibility and reasonableness of reducing the amounts of nitrogen and phosphorus discharged into surface water. The report shall be submitted no later than **11-1-2023** and shall address the following:

- ⚡ A description of the existing treatment facility with particular emphasis on its capabilities for removing nitrogen and phosphorus. The description shall include monitoring data that define the current amounts of total nitrogen and total phosphorus in both the raw wastewater and the final effluent.
- ⚡ A description and evaluation of operational changes to the existing treatment facility that could be implemented to reduce the amounts of total nitrogen and total phosphorus discharged in the final effluent and the feasibility and reasonableness of each. Your evaluation must discuss the projected degree of total nitrogen and total phosphorus reduction achievable for each operational change. When evaluating feasibility you must consider what, if any, effect operational changes would have on the removal of other pollutants (e.g. CBOD₅, TSS). When evaluating reasonableness you shall include estimates of the additional cost, if any, to implement such changes and for a publicly-owned treatment works the impact on user rates.
- ⚡ A description and evaluation of new or additional treatment technologies that would achieve significant reductions in the amounts of total nitrogen and total phosphorus discharged in the final effluent with a goal of achieving annual average concentrations of 10 mg/L total nitrogen and 1 mg/L total phosphorus for plants treating typical domestic strength sewage. For purposes of this evaluation typical domestic sewage is considered to contain approximately 25 – 35 mg/L total nitrogen and 4 - 8 mg/L total phosphorus. For plants treating wastewater with total nitrogen and/or total phosphorus concentrations greater than typical domestic strength sewage, the evaluation shall include the projected reductions in the total nitrogen and phosphorus effluent concentrations achievable with the application of feasible and reasonable treatment technology with a goal of achieving at least a 66 % reduction in nitrogen and 75% reduction in total phosphorus. For each treatment technology the report shall assess its feasibility, reasonableness, practicability, the availability of equipment, capital costs, annual operating costs, impact on user rates and any non-water quality environmental impacts (e.g. additional air pollution, increased sludge production, etc.).
- ⚡ Based on the evaluations of operational changes and new or additional treatment technologies the report must select the preferred method(s) for reducing total nitrogen and total phosphorus in the final effluent, the rationale for the selected method(s) and an estimate of the effluent quality achievable.
- ⚡ In addition to selecting operational changes and/or new or additional treatment technologies, the permittee may evaluate and propose to implement practices within the watershed that may achieve greater reductions in nitrogen and phosphorous than the preferred method(s) alone. Such evaluations are particularly encouraged when no feasible or reasonable operational changes or additional treatment technologies can be identified or when the schedule for installing the selected technology exceeds ten years.
- ⚡ The report must include a schedule for making operational changes and/or installing new or additional treatment technologies to achieve the concentration and/or percentage removal goals listed above. Additional financial justification must be included in the report if no operational changes or treatment technologies are feasible or reasonable.

The schedule will be incorporated into the NPDES permit by amendment. Effluent discharge limits will be based on one full year of operating data after implementation of the operational changes or completion of plant modifications and a six month optimization period.

The report shall be sent to the following email:

npdes.mail@dnr.iowa.gov

Subject: Nutrient Reduction Requirement (3659001)

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

Ammonia Nitrogen and *E. coli* Compliance Schedule

The facility shall make necessary improvements to meet the new/more stringent ammonia nitrogen and *E. coli* limits according to the following schedule **unless an approved alternative schedule is submitted to the Department:**

- Submit an Alternatives Implementation Compliance Plan (AICP) by 8/1/2022. The AICP shall be in accordance with 567 IAC 64.7(5)“g” and shall include an updated Disadvantaged Community Analysis.
- Complete a Self-Assessment Matrix and submit a Work Record Request form to DNR’s Wastewater Engineering Section by 2/1/2023. The forms and instructions are available on the DNR website at <http://www.iowadnr.gov/InsideDNR/RegulatoryWater/WastewaterConstruction.aspx>. Questions on the forms should be directed to either Terry Kirschenman at 515/725-8422 or Emy Liu at 515/725-8421.
- Submit a Facility Plan by 4/1/2023. The Facility Plan shall be in accordance with Chapter 11.2 of the Iowa Wastewater Facilities Design Standards adopted April 25, 1979.
- Submit progress report by 1/1/2024.
- Submit final plans and specifications by 7/1/2024.
- Award contract for construction of wastewater treatment improvements by 12/1/2024.
- Submit progress report by 9/1/2025.
- Complete construction of wastewater treatment improvements by 4/1/2026.
- Achieve compliance with the more stringent limits by 5/1/2026.

Within fourteen (14) days following all dates of compliance, the permittee shall provide written notice of compliance with the scheduled event. All written notices and progress reports shall be sent to the following address:

Iowa Department of Natural Resources
Environmental Services Division
Regional Office # 4
1401 Sunnyside Lane
Atlantic, IA 50022

Facility Name: SHENANDOAH CITY OF STP

Permit Number: 3659001

59 Month Copper and Selenium Compliance Schedule

The facility shall meet the final limits for copper and selenium listed on the limits pages of this permit according to the following schedule:

- The facility shall submit a compliance strategy by February 1, 2023. The compliance strategy must describe the steps the facility will take to comply with the final effluent limits as soon as possible, but no later than January 1, 2027.
- The facility shall submit progress reports every 12 months until compliance with final effluent limits is achieved, with the first progress report due February 1, 2024. The progress reports shall detail completion of the steps described in the compliance strategy.
- Achieve compliance with final effluent limits by January 1, 2027.

Within fourteen (14) days following all dates of compliance, the permittee shall provide written notice of compliance with the scheduled event. All written notices and progress reports shall be sent to the following address:

Iowa Department of Natural Resources
Environmental Services Division
Regional Office # 4
1401 Sunnyside Lane
Atlantic, IA 50022

STANDARD CONDITIONS

1. ADMINISTRATIVE RULES

Rules of this Department that govern the operation of your facility in connection with this permit are published in Part 567 of the Iowa Administrative Code (IAC) in Chapters 60-65, 67, and 121. Reference to the term “rule” in this permit means the designated provision of Part 567 of the IAC. Reference to the term “CFR” means the Code of Federal Regulations.

2. DEFINITIONS

- (a) 7 day average means the sum of the total daily discharges by mass, volume, or concentration during a 7 consecutive day period, divided by the total number of days during the period that measurements were made. Four 7 consecutive day periods shall be used each month to calculate the 7-day average. The first 7-day period shall begin with the first day of the month.
- (b) 30 day average means the sum of the total daily discharges by mass, volume, or concentration during a calendar month, divided by the total number of days during the month that measurements were made.
- (c) Daily maximum means the total discharge by mass, volume, or concentration during a twenty-four hour period.

3. DUTY TO PROVIDE INFORMATION

You must furnish to the Director, within a reasonable time, any information the Director may request to determine compliance with this permit or determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, in accordance with 567 IAC 64.3(11)“c”. You must also furnish to the Director, upon request, copies of any records required to be kept by this permit.

4. MONITORING AND RECORDS OF OPERATION

- (a) Maintenance of records. You shall retain for a minimum of three years all paper and electronic records of monitoring activities and results including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records. *{See 567 IAC 63.2(3)}*
- (b) Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than two years, or both. *{See 40 CFR 122.41(j)(5)}*

5. SIGNATORY REQUIREMENTS

Applications, reports or other information submitted to the Department in connection with this permit must be signed and certified in accordance with 567 IAC 64.3(8).

6. OTHER INFORMATION

Where you become aware that you failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, you must promptly submit such facts or information. Where you become aware that you failed to submit any relevant facts in the submission of in any report to the director, including records of operation, you shall promptly submit such facts or information.

{See 567 IAC 60.4(2)“a” and 567 IAC 63.7}

7. TRANSFER OF TITLE OR OWNER ADDRESS CHANGE

If title to your facility, or any part of it, is transferred the new owner shall be subject to this permit. You are required to notify the new owner of the requirements of this permit in writing prior to any transfer of title. The Director shall be notified in writing within 30 days of the transfer. No transfer of the authorization to discharge from the facility represented by the permit shall take place prior to notifying the department of the transfer of title. Whenever the address of the owner is changed, the department shall be notified in writing within 30 days of the address change. Electronic notification is not sufficient; all title transfers or address changes must be reported to the department by mail. *{See 567 IAC 64.14}*

8. PROPER OPERATION AND MAINTENANCE

All facilities and control systems shall be operated as efficiently as possible and maintained in good working order. A sufficient number of staff, adequately trained and knowledgeable in the operation of your facility shall be retained at all times and adequate laboratory controls and appropriate quality assurance procedures shall be provided to maintain compliance with the conditions of this permit.

{See 40 CFR 122.41(e) and 567 IAC 64.7(7)“f”}

9. PERMIT MODIFICATION, SUSPENSION OR REVOCATION

- (a) This permit may be modified, suspended, or revoked and reissued for cause including but not limited to those specified in 567 IAC 64.3(11).
- (b) This permit may be modified due to conditions or information on which this permit is based, including any new standard the department may adopt that would change the required effluent limits. *{See 567 IAC 64.3(11)}*
- (c) If a toxic pollutant is present in your discharge and more stringent standards for toxic pollutants are established under Section 307(a) of the Clean Water Act, this permit will be modified in accordance with the new standards.

{See 40 CFR 122.62(a)(6) and 567 IAC 64.7(7)“g”}

The filing of a request for a permit modification, revocation or suspension, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

10. DUTY TO REAPPLY AND PERMIT CONTINUATION

If you wish to continue to discharge after the expiration date of this permit, you must file a complete application for reissuance at least 180 days prior to the expiration date of this permit. If a timely and sufficient application is submitted, this permit will remain in effect until the Department makes a final determination on the permit application. *{See 567 IAC 64.8(1) and Iowa Code 17A.18}*

11. DUTY TO COMPLY

You must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Issuance of this permit does not relieve you of the responsibility to comply with all local, state and federal laws, ordinances, regulations or other legal requirements applying to the operation of your facility. *{See 40 CFR 122.41(a) and 567 IAC 64.7(4)“e”}*

STANDARD CONDITIONS

12. DUTY TO MITIGATE

You shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. *{See 40 CFR 122.41(d) and 567 IAC 64.7(7)“i”}*

13. TWENTY-FOUR HOUR REPORTING

You shall report any noncompliance that may endanger human health or the environment, including, but not limited to, violations of maximum daily limits for any toxic pollutant (listed as toxic under 307(a)(1) of the Clean Water Act) or hazardous substance (as designated in 40 CFR Part 116 pursuant to 311 of the Clean Water Act). Information shall be provided orally within 24 hours from the time you become aware of the circumstances. A written submission that includes a description of noncompliance and its cause; the period of noncompliance including exact dates and times, whether the noncompliance has been corrected or the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent a reoccurrence of the noncompliance must be provided within 5 days of the occurrence. *{See 567 IAC 63.12}*

14. OTHER NONCOMPLIANCE

You shall report all instances of noncompliance not reported under Condition #13 at the time monitoring reports are submitted. You shall give advance notice to the appropriate regional field office of the department of any planned activity which may result in noncompliance with permit requirements. *{See 567 IAC 63.14}*

15. INSPECTION OF PREMISES, RECORDS, EQUIPMENT, METHODS AND DISCHARGES

You are required to permit authorized personnel to:

- (a) Enter upon the premises where a regulated facility or activity is located or conducted or where records are kept under conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment, practices or operations regulated or required under this permit; and
- (d) Sample or monitor, at reasonable times, to assure compliance or as otherwise authorized by the Clean Water Act.

16. FAILURE TO SUBMIT FEES

This permit may be revoked, in whole or in part, if the appropriate permit fees are not submitted within thirty (30) days of the date of notification that such fees are due. *{See 567 IAC 64.16(1)}*

17. NEED TO HALT OR REDUCE ACTIVITY

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *{See 40 CFR 122.41(c) and 567 IAC 64.7(7)“j”}*

18. NOTICE OF CHANGED CONDITIONS

You are required to notify the director of any changes in existing conditions or information on which this permit is based. This includes, but is not limited to, the following:

- (a) If your facility is a publicly owned treatment works (POTW) or otherwise may accept waste for treatment from an indirect discharger or industrial contributor (See 567 IAC 64.3(5) for further notice requirements).
- (b) If your facility is a POTW and there is any substantial change in the volume or character of pollutants being introduced to the POTW by a source introducing pollutants into the POTW at the time of issuance of the permit. *{See 40 CFR 122.42(b)}*
- (c) As soon as you know or have reason to believe that any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in this permit. *{See 40 CFR 122.42(a)}*
- (d) If you have begun or will begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application.

19. PLANNED CHANGES

The permittee shall give notice to the appropriate regional field office of the department 30 days prior to any planned physical alterations or additions to the permitted facility. Notice is required only when:

- (a) Notice has not been given to any other section of the department. (Note: Facility expansions, production increases, or process modifications which may result in new or increased discharges of pollutants must be reported to the Director in advance. If such discharges will exceed effluent limitations, your report must include an application for a new permit. If any modification of, addition to, or construction of a disposal system is to be made, you must first obtain a written permit from this Department. In addition, no construction activity that will result in disturbance of one acre or more shall be initiated without first obtaining coverage under NPDES General Permit No. 2 for “Storm water discharge associated with construction activity.”) *{See 567 IAC 64.7(7)“a” and 64.2}*
- (b) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source as defined in 567 IAC 60.2;
- (c) The alteration or addition results in a significant change in the permittee’s sludge use or disposal practices; or
- (d) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to effluent limitations in the permit. *{See 567 IAC 63.13 and 63.14}*

20. USE OF CERTIFIED LABORATORIES

Analyses of wastewater, groundwater or sewage sludge that are required to be submitted to the department as a result of this permit must be performed by a laboratory certified by the State of Iowa. Routine, on-site monitoring for pH, temperature, dissolved oxygen, total residual chlorine and other pollutants that must be analyzed immediately upon sample collection, settleable solids, physical measurements, and operational monitoring tests specified in 567 IAC 63.3(4) are excluded from this requirement.

STANDARD CONDITIONS

21. BYPASSES

- (a) Definition. "Bypass" means the diversion of waste streams from any portion of a treatment facility or collection system. A bypass does not include internal operational waste stream diversions that are part of the design of the treatment facility, maintenance diversions where redundancy is provided, diversions of wastewater from one point in a collection system to another point in a collection system, or wastewater backups into buildings that are caused in the building lateral or private sewer line.
- (b) Prohibitions.
 - i. Bypasses from any portion of a treatment facility or from a sanitary sewer collection system designed to carry only sewage are prohibited.
 - ii. Bypass is prohibited and the department may not assess a civil penalty against a permittee for bypass if the permittee has complied with all of the following:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
 - (2) There were no feasible alternatives to the bypass such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required by paragraph (d) of this section.
- (c) The Director may approve an anticipated bypass after considering its adverse effects if the Director determines that it will meet the three conditions listed above and a request for bypass has been submitted to the Department in accordance with 567 IAC 63.6(2).
- (d) Reporting bypasses. Bypasses shall be reported in accordance with 567 IAC 63.6.

22. UPSET PROVISION

- (a) Definition. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- (b) Effect of an upset. An upset constitutes an affirmative defense in an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph "c" of this condition are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- (c) Conditions necessary for demonstration of an upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate through properly signed operating logs or other relevant evidence that:
 - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated;

- iii. The permittee submitted notice of the upset to the Department in accordance with 567 IAC 63.6(3); and
 - iv. The permittee complied with any remedial measures required in accordance with 567 IAC 63.6(6)"b".
- (d) Burden of Proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

23. PROPERTY RIGHTS

This permit does not convey any property rights of any sort or any exclusive privilege. ***{See 567 IAC 64.4(3)"b"}***

24. EFFECT OF A PERMIT

Compliance with a permit during its term constitutes compliance, for purposes of enforcement, with Sections 301, 302, 306, 307, 318, 403 and 405(a)-(b) of the Clean Water Act, and equivalent limitations and standards set out in 567 IAC Chapters 61 and 62. ***{See 567 IAC 64.4(3)"a"}***

25. SEVERABILITY

The provisions of this permit are severable and if any provision or application of any provision to any circumstance is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding.



TURKLE - CLARK
ENVIRONMENTAL
CONSULTING, L.C.

September 7, 2016

Eric Wiklund
IDNR Water Quality - NPDES Permits
5th Floor Wallace Bldg
502 E. 9th St
Des Moines, IA 50319

RE: Treatment Agreement between City of Clarinda and Page County Landfill
NPDES permit # 7329001

Dear Eric:

Attached is a treatment agreement form approved by the City of Clarinda and the Page County Sanitary Landfill Association for accepting and treating the leachate from the landfill. The limits are similar to those authorized with the City of Shenandoah. This additional treatment location provides alternatives for the landfill to utilize should one system be unable to accept the leachate.

If you should have questions or need additional information regarding this agreement, please feel free to contact me directly.

Sincerely,

Cindy Turkle,
Senior Environmental Professional

Cc: Page County Landfill
Gary McClarnon, City of Clarinda
Al Bertelsen, Field Office #4
Geoffrey Spain, Land Quality

Enclosure



IOWA DEPARTMENT OF NATURAL RESOURCES TREATMENT AGREEMENT FORM

NOTICE A properly executed Treatment Agreement must be submitted by the industrial user not less than one hundred eighty (180) days before the new significant industrial user proposes to discharge into a wastewater disposal system. Any proposed expansion, production increase, or process modification that may result in <u>any</u> change to a previous Treatment Agreement requires execution of a new Treatment Agreement.				DNR USE ONLY NPDES NO. _____ IND. CONT. AGREEMENT NO. _____ REPLACES AGREEMENT NO. _____	
SIGNIFICANT INDUSTRIAL USER			SYSTEM RECEIVING WASTE		
NAME Page County Sanitary Landfill			NAME Clarinda Wastewater Treatment		
MAILING ADDRESS 2032 N Ave, Clarinda, IA 51632-959			MAILING ADDRESS 200 S. 15th St., Clarinda, IA 51632		
AUTHORIZED REPRESENTATIVE Myron Magwitz		PHONE NO. 712-542-5018	AUTHORIZED REPRESENTATIVE Gary McClarnon		PHONE NO. 712-542-2136
CERTIFICATION OF INDUSTRIAL USER I am the duly authorized representative for the significant industrial user identified above and state that the proposed discharge to the system receiving waste identified above shall not exceed the quantities listed on page two of this form after: EFFECTIVE DATE September 1, 2016 I further assure that notice of any anticipated increase in pollutants contributed shall be given to the owner of the system identified above sufficiently in advance of such increase to allow this contributor to submit a new treatment agreement to the Department of Natural Resources no later than sixty days in advance of the increase or change.					
TYPED OR PRINTED NAME Myron Magwitz	TITLE Manager	SIGNATURE <i>Myron Magwitz</i>		DATE 9-1-16	
CERTIFICATION OF SYSTEM RECEIVING WASTE I am the duly authorized representative for the facility owner named above and state that the owner agrees to accept the discharge described on page two from the contractor identified above, and accepts responsibility for providing treatment of the volume and quantities described on the reverse in accordance with the provisions of Chapter 455B, Code of Iowa, and the rules of the Department of Natural Resources. This agreement is conditioned on the industrial contributor complying with all applicable standards and requirements of the Department of Natural Resources and the United State Environmental Protection Agency. This agreement is entered for the purpose of identifying pollutants contributed and limiting the quantity contributed, and shall not otherwise be construed to affect local ordinances, sewer service agreements or fee systems entered into between the parties. This agreement may be modified or terminated by the owner of the disposal system if additional pollutants or additional quantities or volumes of pollutants are contributed other than identified on the reverse, or because of any condition that requires either a temporary or permanent reduction or elimination of the accepted contribution.					
TYPED OR PRINTED NAME <i>Gary McClarnon</i>	TITLE City Manager	SIGNATURE <i>Gary McClarnon</i>		DATE 9-2-2016	

Appendix H.3 – Summary of Monthly Lagoon Discharge Testing (Table H.1) & Monthly Laboratory Reports

PAGE COUNTY LANDFILL LEACHATE ANALYSIS RESULTS - SUMMARY

TABLE H1 - LABORATORY RESULTS (mg/l) [Beginning with January 2016]

DATE		B.O.D.		AMMONIA		TOTAL SUSP. SOLIDS
1/11/2016		26		87.6		48
4/5/2016		18		88.5		37
5/2/2016		18		56.0		29
5/31/2016		20		78.7		43
7/5/2016		16		72.2		47
8/1/2016		15		73.7		38
9/1/2016		12		6.7		74
10/4/2016		26		44.8		62
10/31/2016		23		36.1		59
12/5/2016		187		37.2		71
1/3/2017		136		58.6		37
2/1/2017		368		60.1		77
3/6/2017		24		63.3		83
4/3/2017		296		36.0		30
5/1/2017		132		70.7		27
6/6/2017		33		59.9		79
7/5/2017		244		67.4		93
8/1/2017		73		89.7		39
9/5/2017		14		88.2		11
10/2/2017		97		80.9		61
11/1/2017		87		115.0	<	7
12/4/2017		20		128.0		31
1/3/2018		20		128.0		44
2/5/2018		14		124.0		29
3/5/2018		16		105.0		14
4/2/2018		19		83.2		44
5/1/2018		29		128.0		37
6/4/2018		24		126.0		27
7/2/2018		34		109.0		31
8/1/2018		28		132.0		19
9/4/2018		88		95.1		44
10/1/2018		40		69.5		62
11/5/2018		48		160.0		131
12/3/2018		29		117.0		67
1/2/2019		323		172.0		76
2/4/2019		70		165.0		52
3/4/2019		38		164.0		78
4/2/2019		465		215.0		83
5/1/2019		116		106.0		31
6/3/2019		50		138.0		141
7/1/2019		43		196.0		107
8/6/2019		30		223.0		67
9/3/2019		11	<	0.10		29
10/3/2019		19		81.3		44
10/16/2019		6		1.2		10
11/4/2019	<	5		2.4		6
12/9/2019		8		3.2		8

PAGE COUNTY LANDFILL LEACHATE ANALYSIS RESULTS - SUMMARY

TABLE H1 (continued) - LABORATORY RESULTS (mg/l) [Beginning with January 2016]

DATE		B.O.D.		AMMONIA		TOTAL SUSP. SOLIDS
1/6/2020		6		2.3		4
2/3/2020		32		161.0		45
3/2/2020		15		84.4		36
4/1/2020		17		101.0	<	10
5/4/2020		10		61.6		15
6/1/2020		9		57.8		12
7/6/2020		17		118.0		28
8/4/2020		22		34.7		25
9/1/2020		31		168.0		59
10/5/2020		30		171.0		40
11/2/2020		28		188.0		50
12/1/2020		31		174.0		56
1/4/2021		29		177.0		38
2/1/2021		25		139.0		46
3/2/2021		18		136.0		33
3/25/2021		13		10.8		16
4/5/2021		14		101.0		68
5/3/2021		19		125.0		30
6/1/2021		16		116.0		45
7/6/2021		24		102.0		500
8/2/2021		31		114.0		56
9/1/2021		22		88.5		47
10/5/2021		34		151.0		74
11/1/2021		32		0.46		39
12/2/2021		41		1.3		17
1/3/2022		21		167.0		30
2/1/2022		28		188.0		40
3/1/2022		32		155.0		34
3/16/2022		34		1.1		62
4/4/2022		79		113.0		71
5/2/2022		19		110.0		38
6/1/2022		23		1.0		92
7/5/2022		19		69.3		42
8/2/2022		10		69.4		88
9/6/2022		18		112.0		25
10/5/2022		20		108.0		32
11/1/2022		18		86.8		36
12/5/2022		20		93.7		23

TABLE H1 (continued) - LABORATORY RESULTS (mg/l) [Beginning with January 2016]

DATE		B.O.D.		AMMONIA		TOTAL SUSP. SOLIDS
1/4/2023		21		98.8		20
2/1/2023		22		115.0		35
3/1/2023		26		102.0		49
4/4/2023		20		117.0		40
5/1/2023		19		109.0		57
6/5/2023		20		141.0		36
7/5/2023		23		122.0		42
8/1/2023		24		167.0		35
9/5/2023		24		172.0		24
10/4/2023		25		218.0		25
11/1/2023		26		182.0		22
12/5/2023		26		204.0		23
2/5/2024		31		139.0		43
3/4/2024		22		237.0		34
3/18/2024		6		0.24		7
4/1/2024		6		0.33		6
5/1/2024		12		0.10		13
8/1/2024		19		88.9		30
9/3/2024		9		40.3		18
10/1/2024		18		37.2		5
12/2/2024		12		45.8		6
1/6/2025		18		36.2		17
2/3/2025		18		62.4		47
3/3/2025		23		61.6		13
3/17/2025		32		42.70		21
5/20/2025		46		35.3		22
12/9/2025		12		50.9		28
AVERAGE		22.6		99.8		41.8

PERMIT DAILY MAXIMUM	ACTUAL	REMARKS

[Some parameters not required to be analyzed as frequently under the new permit.]

[Some results less than detection limit are shown as zero or the detection limit.]

Page County SLF

2025 Leachate Testing

Date Collected				
	Ammonia, N	BOD5	TSS	
1/6/2025	36.2	18	17	
2/3/2025	62.4	18	47	
3/3/2025	61.6	23	13	
3/17/2025	42.7	32	21	
5/20/2025	35.3	46	22	
12/9/2025	50.9	12	28	



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11A0462

Page County Landfill Assoc.

Project Name: Leachate

Brian Ward
2032 N Ave
Clarinda, IA 51632

Project / PO Number: N/A
Received: 01/07/2025
Reported: 01/15/2025

Analytical Testing Parameters

Client Sample ID:	Leachate	Collected By:	Ward, Brian
Sample Matrix:	Aqueous	Collection Date:	01/06/2025 10:00
Lab Sample ID:	11A0462-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
SM 5210 B-2016								
BOD (5 day)	18	6	mg/L	3		01/07/25 1451	01/07/25 1529	MND
TIMBERLINE								
Nitrogen, Ammonia	36.2	1.00	mg/L	10		01/14/25 0934	01/14/25 1329	SDF
USGS I-3765-85								
Total Suspended Solids (TSS)	17	10	mg/L	10		01/08/25 0819	01/08/25 1328	KDA

Definitions

RL: Reporting Limit

Report Comments

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Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
01/15/25 13:47



1 I A 0 4 6 2

Page County Landfill Assoc.
PM: Heather Murphy

SITE INFORMATION

Sampler: PCLF
Project: Leachate

REPORT TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

INVOICE TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order IA0462
Temperature 0.0
Turn-Cooler: Yes

☐ Custody Seal
☒ Containers Intact
☒ COC/Labels Agree
☒ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	Leachate	Aqueous	GRAB	11/6/25	10:00am	2	bod-5210 tss-3765-85	01

Relinquished By PCLF Date/Time 11-6-25 10:00am

Received By _____ Date/Time _____

Relinquished By _____ Date/Time _____
Received for Lab By Haley Sevenbergen Date/Time 11-7-25 10:25

Original - Lab Copy Yellow - Sampler Copy

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11B0248

Page County Landfill Assoc.

Project Name: Leachate

Brian Ward
2032 N Ave
Clarinda, IA 51632

Project / PO Number: N/A
Received: 02/04/2025
Reported: 02/13/2025

Analytical Testing Parameters

Client Sample ID:	Leachate	Collected By:	PCLF
Sample Matrix:	Aqueous	Collection Date:	02/03/2025 9:50
Lab Sample ID:	11B0248-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
SM 5210 B-2016								
BOD (5 day)	18	6	mg/L	3		02/04/25 1458	02/04/25 1701	MND
TIMBERLINE								
Nitrogen, Ammonia	62.4	1.00	mg/L	10		02/05/25 1127	02/06/25 0831	SDF
USGS I-3765-85								
Total Suspended Solids (TSS)	47	4	mg/L	4		02/06/25 0830	02/06/25 1319	LAW

Definitions

RL: Reporting Limit
RPD: Relative Percent Difference

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
02/13/25 08:29

CHAIN OF CUSTODY



600 East 17th Street South
Newton, IA 50208
641-792-8451



1 I B 0 2 4 8

Page County Landfill Assoc.

PM: Heather Murphy

Page 1 of

1/7/2025 4:04:34P

peystonelabs.com

Page 2 of 2

SITE INFORMATION

Sampler: PCLF
Project: Leachate

REPORT TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

INVOICE TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order

Temperature

Turn-Cooler:

Yes

☐ Custody Seal
☒ Containers Intact
☒ COC/Labels Agree
☒ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	Leachate	Aqueous	GRAB	2/3/25	9:50 AM	2	hcd-5210 tas-1-3765-85 nh3-Amberline	1

Relinquished By

Date/Time

Relinquished By

Date/Time

Remarks:

Received By

Date/Time

Received for Lab By

Date/Time

Original - Lab Copy Yellow - Sampler Copy



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11C0253

Page County Landfill Assoc.

Project Name: Leachate

Brian Ward
2032 N Ave
Clarinda, IA 51632

Project / PO Number: N/A
Received: 03/04/2025
Reported: 03/13/2025

Analytical Testing Parameters

Client Sample ID:	Leachate	Collected By:	PCLF
Sample Matrix:	Aqueous	Collection Date:	03/03/2025 10:15
Lab Sample ID:	11C0253-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
SM 5210 B-2016								
BOD (5 day)	23	6	mg/L	3		03/04/25 1443	03/04/25 1532	MND
TIMBERLINE								
Nitrogen, Ammonia	61.6	1.00	mg/L	10		03/06/25 1340	03/06/25 1552	SDF
USGS I-3765-85								
Total Suspended Solids (TSS)	13	4	mg/L	4		03/04/25 1355	03/05/25 0835	LAW

Definitions

RL: Reporting Limit
RPD: Relative Percent Difference

Report Comments

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Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
03/13/25 08:09



600 Ea
Newtor
641-79



1 I C 0 2 5 3
Page County Landfill Assoc.
PM: Heather Murphy

Page 1 of

Printed: 2/5/2025 10:07:39A

www.keystonelabs.com

Page 2 of 2

SITE INFORMATION

Sampler: PCLF
Project: Leachate

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

INVOICE TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

LAB USE ONLY

Work Order IC0253

Temperature 0.0

Turn-Cooler: Yes

☐ Custody Seal
☒ Containers Intact
☒ COC/Labels Agree
☐ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	Leachate	Aqueous	GRAB	3/3/25	10:15AM	2	had-5210 lss-i-3765-85	01

Relinquished By PCLF Date/Time 3/3/25 10:15am

Received By _____ Date/Time _____

Relinquished By _____ Date/Time _____
My Hochstetler 3/4/25 10:15
Received for Lab By _____ Date/Time _____

Remarks:

Original - Lab Copy Yellow - Sampler Copy



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC1127

Page County Landfill Assoc.

Project Name: Leachate

Brian Ward
2032 N Ave
Clarinda, IA 51632

Project / PO Number: N/A
Received: 03/18/2025
Reported: 03/26/2025

Analytical Testing Parameters

Client Sample ID:	Leachate	Collected By:	PCLF
Sample Matrix:	Aqueous	Collection Date:	03/17/2025 10:15
Lab Sample ID:	1IC1127-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
SM 5210 B-2016								
BOD (5 day)	32	6	mg/L	3		03/18/25 1303	03/18/25 1509	MND
TIMBERLINE								
Nitrogen, Ammonia	42.7	1.00	mg/L	10		03/20/25 0948	03/20/25 1221	SDF
USGS I-3765-85								
Total Suspended Solids (TSS)	21	4	mg/L	4		03/20/25 0952	03/20/25 1540	MSP

Definitions

RL: Reporting Limit
RPD: Relative Percent Difference

Report Comments

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Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
03/26/25 08:52



600 East
Newton
641-791



1 I C 1 1 2 7
Page County Landfill Assoc.
PM: Heather Murphy

Page 1 of 2
Printed: 3/5/2025 1:12:50P
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Page 2 of 2

SITE INFORMATION

Sampler PCLF
Project: Leachate

REPORT TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

INVOICE TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

SPECIAL INSTRUCTIONS

None

Turn Around Time

☐ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order IC1127
Temperature 0-1
Turn-Cooler: Yes

☐ Custody Seal
☒ Containers Intact
☒ COC/Labels Agree
☒ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	Leachate	Aqueous	GRAB	3/17/25	10:15am	2	bod-5210 tss-3765-85	01

PCLF 3-17-25 10:15am
Relinquished By Date/Time

Relinquished By Date/Time

Received By Date/Time

Aime Koffi 3-18-25 10:00
Received for Lab By Date/Time

Original - Lab Copy Yellow - Sampler Copy

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11E1577

Page County Landfill Assoc.

Project Name: Leachate

Brian Ward
2032 N Ave
Clarinda, IA 51632

Project / PO Number: N/A
Received: 05/21/2025
Reported: 05/30/2025

Analytical Testing Parameters

Client Sample ID:	Leachate	Collected By:	PCLF
Sample Matrix:	Aqueous	Collection Date:	05/20/2025 11:30
Lab Sample ID:	11E1577-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
SM 5210 B-2016								
BOD (5 day)	46	6	mg/L	3		05/21/25 1313	05/21/25 1504	MND
TIMBERLINE								
Nitrogen, Ammonia	35.3	1.00	mg/L	10		05/27/25 0936	05/27/25 1103	SDF
USGS I-3765-85								
Total Suspended Solids (TSS)	22	1	mg/L	1		05/23/25 0808	05/27/25 0835	LAW

Definitions

DF: Dilution Factor representing the amount the sample was diluted during analysis and may not represent preparation factors.
RL: Reporting Limit

Report Comments

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Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
05/30/25 14:36



600 East 17th Street South
Newton, IA 50208
641-792-8451

CHAIN OF CUSTODY RECORD



1 I E 1 5 7 7

Page County Landfill Assoc.

PM: Heather Murphy

Page 1 of 2
d: 3/19/2025 9:55:48A
v.keystonelabs.com

Page 2 of 2

SITE INFORMATION

Sampler: PCLF
Project: Leachate

REPORT TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

INVOICE TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order

Temperature

Turn-Cooler:

Yes

- ☐ Custody Seal
- ☒ Containers Intact
- ☒ COC/Labels Agree
- ☐ Preservation Confirmed
- ☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	Leachate	Aqueous	GRAB	5/20/25	11:30am	2	hdd-5210 tes-1-3765-85	01

Relinquished By

Date/Time

Relinquished By

Date/Time

Received By

Date/Time

Received for Lab By

Date/Time

Remarks:

Original - Lab Copy Yellow - Sampler Copy



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11F1991

Page County Landfill Assoc.

Project Name: Leachate

Brian Ward
2032 N Ave
Clarinda, IA 51632

Project / PO Number: N/A
Received: 06/26/2025
Reported: 07/09/2025

Analytical Testing Parameters

Client Sample ID:	Leachate	Collected By:	Unknown
Sample Matrix:	Aqueous	Collection Date:	06/25/2025 9:45
Lab Sample ID:	11F1991-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	Note	Prepared	Analyzed	Analyst
SM 5210 B-2016							
BOD (5 day)	45	6	mg/L		06/26/25 1209	06/26/25 1402	MND
TIMBERLINE							
Nitrogen, Ammonia	30.4	1.00	mg/L		06/30/25 1255	06/30/25 1452	TEP
USGS I-3765-85							
Total Suspended Solids (TSS)	21	1	mg/L		06/26/25 1532	06/27/25 1445	LAW

Definitions

RL: Reporting Limit

Report Comments

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Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
07/09/25 11:32

CHAIN OF CUSTODY RECORD



600 East 17th Street South
Newton, IA 50208
Phone: 641-792-8451

Page 1 of 1

Printed: 5/27/2025 8:59:01AM

Page 2 of 2

SITE INFORMATION

Sampler: PCLF

Project: Leachate

REPORT TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

INVOICE TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___



1 I F 1 9 9 1

Page County Landfill Assoc.

PM: Heather Murphy

Temperature: 2.61°C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Comments	Analyses	Lab Sample Number
01-001	Leachate	Aqueous	GRAB	6-25-25	9:45AM		bod-5210 nh3-timberline tss-i-3765-85	01

Relinquished By

Date/Time

Relinquished By

Date/Time

Remarks:

Received By

Date/Time

Received for Lab By

Date/Time

PCLF 6-25-25 9:45AM

Ame Koffi 06-26-25 @ 10:30 am



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1111307

Page County Landfill Assoc.

Project Name: Leachate

Brian Ward
2032 N Ave
Clarinda, IA 51632

Project / PO Number: N/A
Received: 09/17/2025
Reported: 09/25/2025

Analytical Testing Parameters

Client Sample ID: Leachate
Sample Matrix: Aqueous
Lab Sample ID: 1111307-01

Collected By: PCLF
Collection Date: 09/16/2025 10:00

Determination of Conventional Chemistry Parameters	Result	RL	Units	Note	Prepared	Analyzed	Analyst
SM 5210 B-2016							
BOD (5 day)	7	6	mg/L		09/17/25 1236	09/22/25 0929	MND
TIMBERLINE							
Nitrogen, Ammonia	25.4	0.50	mg/L		09/22/25 0938	09/22/25 1211	BHF
USGS I-3765-85							
Total Suspended Solids (TSS)	10	1	mg/L		09/17/25 1130	09/18/25 0805	LAW

Definitions

RL: Reporting Limit

Report Comments

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Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
09/25/25 15:11

CHAIN OF CUSTODY RECORD



600 East 17th Street South
Newton, IA 50208
Phone: 641-792-8451

Page 1 of 1
Printed: 6/30/2025 3:18:49PM

Page 2 of 2

SITE INFORMATION

Sampler: PCLF

Project: Leachate

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

INVOICE TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

LAB USE ONLY



1 I I 1 3 0 7

Page County Landfill Assoc.

PM: Heather Murphy

Temperature: 1-9.1 °C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	Leachate	Aqueous	GRAB	9/16/25	10:00 AM	2	bod-5210 tss-i-3765-85 nh3-timberline	01

PCLF 9/16/25 10:00 AM
Relinquished By Date/Time

Relinquished By Date/Time

Received By Date/Time

Ame KATI 9-17-25 10:24 a
Received for Lab By Date/Time

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11L0813

Page County Landfill Assoc.

Project Name: Leachate

Brian Ward
2032 N Ave
Clarinda, IA 51632

Project / PO Number: N/A
Received: 12/10/2025
Reported: 12/19/2025

Analytical Testing Parameters

Client Sample ID: Leachate
Sample Matrix: Aqueous
Lab Sample ID: 11L0813-01

Collected By: PCLF
Collection Date: 12/09/2025 10:45

Inorganics Total	Result	RL	Units	Note	Prepared	Analyzed	Analyst
SM 5210 B-2016							
Biochemical Oxygen Demand (BOD5)	12	6	mg/L		12/10/25 1255	12/15/25 1047	MND
USGS I-3765-85							
Total Suspended Solids (TSS)	28	4	mg/L		12/10/25 1344	12/11/25 0829	LAW
Determination of Conventional Chemistry Parameters	Result	RL	Units	Note	Prepared	Analyzed	Analyst
TIMBERLINE							
Nitrogen, Ammonia	50.9	1.00	mg/L		12/11/25 1038	12/11/25 1506	BHF

Definitions

RL: Reporting Limit

Report Comments

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Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
12/19/25 08:29

CHAIN OF CUSTODY RECORD



600 East 17th Street South
Newton, IA 50208
Phone: 641-792-8451

Page 1 of 1
Printed: 9/18/2025 7:44:10AM

Page 2 of 2

SITE INFORMATION

Sampler: PCLF

Project: Leachate

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

INVOICE TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

LAB USE ONLY



1 I L 0 8 1 3

Page County Landfill Assoc.

PM: Heather Murphy

Temperature: 0.3 °C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	Leachate	Aqueous	GRAB	12/9/25	10:45am	2	bod-5210 tss-i-3765-85	01

PCLF

Relinquished By Date/Time

12-9-25 10:45am

Relinquished By Date/Time

Amy Hochstetler 12/10/25 10:55

Received By Date/Time

Received for Lab By Date/Time

Remarks:

Appendix H.4 – Annual Leachate Testing Laboratory Report



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC0819

Project Description

Leachate Sampling

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Tuesday, April 1, 2025

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., Newton. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

600 East 17th Street South | Newton, IA 50208 | 641-792-8451 p | www.microbac.com



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC0819

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: Leachate Sampling

Project / PO Number: N/A
Received: 03/12/2025
Reported: 04/01/2025

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
Leachate Tank	1IC0819-01	Aqueous	GRAB		03/11/25 13:48	03/12/25 10:20



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11C0819

Analytical Testing Parameters

Client Sample ID: Leachate Tank
Sample Matrix: Aqueous
Lab Sample ID: 11C0819-01

Collected By: JGH
Collection Date: 03/11/2025 13:48

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 624.1								
Chloromethane	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Chloroform	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Benzene	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
2-Chloroethylvinyl ether	<10.0	10.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Toluene	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Bromoform	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/21/25 0000	03/21/25 2128	CSM
Surrogate: Dibromofluoromethane	91.7	Limit: 59-123	% Rec	1		03/21/25 0000	03/21/25 2128	CSM
Surrogate: 1,2-Dichloroethane-d4	90.8	Limit: 56-130	% Rec	1		03/21/25 0000	03/21/25 2128	CSM
Surrogate: Toluene-d8	101	Limit: 85-113	% Rec	1		03/21/25 0000	03/21/25 2128	CSM
Surrogate: 4-Bromofluorobenzene	93.5	Limit: 82-112	% Rec	1		03/21/25 0000	03/21/25 2128	CSM

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

EPA 625.1

Method Notes: D4

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CERTIFICATE OF ANALYSIS

11C0819

Client Sample ID: Leachate Tank
Sample Matrix: Aqueous
Lab Sample ID: 11C0819-01

Collected By: JGH
Collection Date: 03/11/2025 13:48

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
N-Nitrosodimethylamine	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Phenol	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Aniline	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Bis(2-Chloroethyl) Ether	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
2-Chlorophenol	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
1,3-Dichlorobenzene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
1,4-Dichlorobenzene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Benzyl Alcohol	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
1,2-Dichlorobenzene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
2-Methylphenol (o-Cresol)	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Bis[2-Chloroisopropyl]ether	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
n-Nitroso-di-n-propylamine	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
(3 & 4)-Methylphenol	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Hexachloroethane	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Nitrobenzene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Isophorone	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
2-Nitrophenol	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
2,4-Dimethylphenol	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Bis (2-Chloroethoxy) Methane	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
2,4-Dichlorophenol	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
1,2,4-Trichlorobenzene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Naphthalene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
4-Chloroaniline	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Hexachlorobutadiene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
4-Chloro-3-methylphenol	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
2-Methylnaphthalene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Hexachlorocyclopentadiene	<200	200	ug/L	10	Q8	03/17/25 1538	03/20/25 2233	EPP
2,4,6-Trichlorophenol	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
2,4,5-Trichlorophenol	<500	500	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
2-Chloronaphthalene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
2-Nitroaniline	<500	500	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Dimethylphthalate	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Acenaphthylene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
2,6-Dinitrotoluene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
3-Nitroaniline	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Acenaphthene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
2,4-Dinitrophenol	<200	200	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Dibenzofuran	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
2,4-Dinitrotoluene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
4-Nitrophenol	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Diethyl Phthalate	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Fluorene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
4-Chlorophenyl Phenyl Ether	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP

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CERTIFICATE OF ANALYSIS

11C0819

Client Sample ID: Leachate Tank
Sample Matrix: Aqueous
Lab Sample ID: 11C0819-01

Collected By: JGH
Collection Date: 03/11/2025 13:48

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
4-Nitroaniline	<200	200	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
4,6-Dinitro-2-methylphenol	<200	200	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
N-Nitrosodiphenylamine	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Azobenzene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
4-Bromophenyl Phenyl Ether	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Hexachlorobenzene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Pentachlorophenol	<200	200	ug/L	10	Q8	03/17/25 1538	03/20/25 2233	EPP
Phenanthrene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Anthracene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Di-n-butyl Phthalate	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Fluoranthene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Benzydine	<500	500	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Pyrene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Butyl Benzyl Phthalate	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Benzo(a)anthracene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Chrysene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Bis(2-Ethylhexyl) Phthalate	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Di-n-octyl Phthalate	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Indeno(1,2,3-cd)Pyrene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
3,3'-Dichlorobenzidine	<200	200	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Benzo(b)Fluoranthene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Benzo(k)Fluoranthene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Benzo(a)Pyrene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Dibenzo(a,h)anthracene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Benzo(g,h,i)perylene	<100	100	ug/L	10		03/17/25 1538	03/20/25 2233	EPP
Surrogate: 2-Fluorophenol	68.4	Limit: 16-140	% Rec	10		03/17/25 1538	03/20/25 2233	EPP
Surrogate: Phenol-d6	75.6	Limit: 13-147	% Rec	10		03/17/25 1538	03/20/25 2233	EPP
Surrogate: Nitrobenzene-d5	63.7	Limit: 17-150	% Rec	10		03/17/25 1538	03/20/25 2233	EPP
Surrogate: 2-Fluorobiphenyl	69.7	Limit: 15-134	% Rec	10		03/17/25 1538	03/20/25 2233	EPP
Surrogate: 2,4,6-Tribromophenol	88.3	Limit: 20-158	% Rec	10		03/17/25 1538	03/20/25 2233	EPP
Surrogate: Terphenyl-dl4	55.8	Limit: 12-157	% Rec	10		03/17/25 1538	03/20/25 2233	EPP

Determination of Organochlorine Insecticides & PCBs	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3520C/EPA 608.3 GC-ECD								
Alpha-BHC	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Gamma-BHC [Lindane]	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Beta-BHC	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Heptachlor	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Delta-BHC	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Aldrin	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Heptachlor Epoxide	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Endosulfan I	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
4,4'-DDE	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP

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CERTIFICATE OF ANALYSIS

11C0819

Client Sample ID: Leachate Tank
Sample Matrix: Aqueous
Lab Sample ID: 11C0819-01

Collected By: JGH
Collection Date: 03/11/2025 13:48

Determination of Organochlorine Insecticides & PCBs	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Dieldrin	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Endrin	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
4,4'-DDD	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Endosulfan II	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
4,4'-DDT	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Endrin Aldehyde	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Endosulfan Sulfate	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Methoxychlor	<0.05	0.05	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Chlordane	<0.10	0.10	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Toxaphene	<0.20	0.20	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Arochlor 1016	<0.20	0.20	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Arochlor 1221	<0.20	0.20	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Arochlor 1232	<0.20	0.20	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Arochlor 1242	<0.20	0.20	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Arochlor 1248	<0.20	0.20	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Arochlor 1254	<0.20	0.20	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Arochlor 1260	<0.20	0.20	ug/L	1		03/13/25 1033	03/20/25 1310	EPP
Surrogate: Decachlorobiphenyl	109	Limit: 12-130	% Rec	1		03/13/25 1033	03/20/25 1310	EPP
Surrogate: Tetrachloro-m-xylene	73.7	Limit: 31-116	% Rec	1		03/13/25 1033	03/20/25 1310	EPP

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
5310B								
Total Organic Carbon	48.5	0.50	mg/L	1		03/26/25 0000	03/26/25 1519	CSM
EPA 1664A								
Oil and Grease	<4	4	mg/L	1		03/18/25 0833	03/19/25 0730	RDH
EPA 351.2, Rv. 2 (1993)								
Nitrogen, Kjeldahl, total	53.6	1.00	mg/L	1		03/21/25 1645	03/25/25 1404	SGB
SM 5210 B-2016								
BOD (5 day)	29	6	mg/L	3		03/12/25 1721	03/12/25 1901	MND
TIMBERLINE								
Nitrogen, Ammonia	50.8	1.00	mg/L	10		03/17/25 0947	03/17/25 1241	SDF
USGS I-1750-85								
Total Dissolved Solids (TDS)	1020	5	mg/L	13		03/14/25 0645	03/18/25 1248	LAW
USGS I-3765-85								
Total Suspended Solids (TSS)	20	10	mg/L	10	H	03/19/25 0659	03/19/25 1107	MSP

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.7								
Iron, total	0.790	0.100	mg/L	1		03/19/25 0710	03/20/25 0049	JAR
245.1								
Mercury, total	<0.00050	0.00050	mg/L	1		03/20/25 1533	03/21/25 1431	JAR



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CERTIFICATE OF ANALYSIS

1IC0819

Client Sample ID:	Leachate Tank	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	03/11/2025 13:48
Lab Sample ID:	1IC0819-01		

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 200.8, Rv. 5.4 (1994)								
Arsenic, total	0.0056	0.0020	mg/L	4		03/14/25 1605	03/18/25 0224	RVV
Barium, total	0.267	0.0020	mg/L	4		03/14/25 1605	03/18/25 0224	RVV
Cadmium, total	<0.0002	0.0002	mg/L	4		03/14/25 1605	03/18/25 0224	RVV
Chromium, total	0.0023	0.0020	mg/L	4		03/14/25 1605	03/18/25 0224	RVV
Copper, total	<0.0020	0.0020	mg/L	4		03/14/25 1605	03/18/25 0224	RVV
Lead, total	<0.0008	0.0008	mg/L	4		03/14/25 1605	03/18/25 0224	RVV
Nickel, total	0.0335	0.0040	mg/L	4		03/14/25 1605	03/18/25 0224	RVV
Selenium, total	0.0047	0.0040	mg/L	4		03/14/25 1605	03/18/25 0224	RVV
Silver, total	<0.0020	0.0020	mg/L	4		03/14/25 1605	03/18/25 0224	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		03/14/25 1605	03/18/25 0224	RVV

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CERTIFICATE OF ANALYSIS

1IC0819

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
SM 5210 B-2016	1IC0593	1IC0593-BLK1	
		1IC0593-SRM1	
		1IC0593-DUP1	1IC0818-01
		1IC0819-01	Leachate Tank
Method	Batch	Laboratory ID	Client / Source ID
EPA 608.3 GC-ECD	1IC0617	1IC0617-BLK1	
		1IC0617-BS1	
		1IC0617-BSD1	
		1IC0617-SRM1	
		1IC0819-01	Leachate Tank
Method	Batch	Laboratory ID	Client / Source ID
USGS I-1750-85	1IC0680	1IC0819-01	Leachate Tank
		1IC0680-BLK1	
		1IC0680-DUP1	1IC0804-01
		1IC0680-BS1	
Method	Batch	Laboratory ID	Client / Source ID
EPA 200.8, Rv. 5.4 (1994)	1IC0737	1IC0737-BLK1	
		1IC0737-BS1	
		1IC0819-01	Leachate Tank
		1IC0737-MS1	1IC0834-01
		1IC0737-MSD1	1IC0834-01
		1IC0737-PS1	1IC0834-01
Method	Batch	Laboratory ID	Client / Source ID
TIMBERLINE	1IC0764	1IC0764-BLK1	
		1IC0764-BS1	
		1IC0764-MRL1	
		1IC0764-MS1	1IC0824-02
		1IC0764-MSD1	1IC0824-02
		1IC0819-01	Leachate Tank
Method	Batch	Laboratory ID	Client / Source ID
EPA 625.1	1IC0804	1IC0804-BLK1	
		1IC0804-BS1	
		1IC0804-BSD1	
		1IC0819-01	Leachate Tank
Method	Batch	Laboratory ID	Client / Source ID



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CERTIFICATE OF ANALYSIS

1IC0819

EPA 1664A	1IC0822	1IC0822-BS1	
		1IC0822-BLK1	
		1IC0822-MS1	1IC1088-01
		1IC0822-MSD1	1IC1088-01
		1IC0819-01	Leachate Tank

Method	Batch	Laboratory ID	Client / Source ID

USGS I-3765-85	1IC0907	1IC0907-BS1	
		1IC0819-01	Leachate Tank
		1IC0907-BLK1	
		1IC0907-DUP1	1IC1012-01

Method	Batch	Laboratory ID	Client / Source ID

200.7	1IC0910	1IC0910-BLK1	
		1IC0910-BS1	
		1IC0910-MS1	1IC0655-01
		1IC0910-MSD1	1IC0655-01
		1IC0910-PS1	1IC0655-01
		1IC0819-01	Leachate Tank

Method	Batch	Laboratory ID	Client / Source ID

245.1	1IC1059	1IC1059-BLK1	
		1IC1059-BS1	
		1IC1059-MS1	1IC0688-01
		1IC1059-MSD1	1IC0688-01
		1IC0819-01	Leachate Tank

Method	Batch	Laboratory ID	Client / Source ID

EPA 351.2, Rv. 2 (1993)	1IC1130	1IC1130-BS1	
		1IC1130-MS1	1IC0741-02
		1IC1130-BLK1	
		1IC1130-MSD1	1IC0741-02
		1IC0819-01	Leachate Tank

Method	Batch	Laboratory ID	Client / Source ID

EPA 624.1	1IC1150	1IC1150-BS1	
		1IC1150-BSD1	
		1IC1150-BLK1	
		1IC0819-01	Leachate Tank
		1IC1150-MS1	1IC1317-07
		1IC1150-MSD1	1IC1317-07

Method	Batch	Laboratory ID	Client / Source ID

5310B	1IC1376	1IC1376-BSD1	
		1IC1376-BLK1	

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1IC0819

5310B

1IC1376

1IC1376-BS1

1IC0819-01

Leachate Tank

1IC1376-MS1

1IC0692-01

1IC1376-MSD1

1IC0692-01

Batch Quality Control Summary: Microbac Laboratories, Inc., Newton

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1150 - EPA 5030B - EPA 624.1										
Blank (1IC1150-BLK1)										
Prepared: 03/21/25 00:00 Analyzed: 03/21/25 12:36										
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
2-Chloroethylvinyl ether	<10.0	10.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,3-Dichlorobenzene	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							

Surrogate: Dibromofluoromethane	38.8	ug/L	50.2	77.4	59-123
Surrogate: 1,2-Dichloroethane-d4	36.7	ug/L	50.1	73.3	56-130
Surrogate: Toluene-d8	52.5	ug/L	50.4	104	85-113

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CERTIFICATE OF ANALYSIS

11C0819

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C1150 - EPA 5030B - EPA 624.1										

Blank (11C1150-BLK1)

Prepared: 03/21/25 00:00 Analyzed: 03/21/25 12:36

Surrogate: 4-Bromofluorobenzene	50.3		ug/L	50.1		100	82-112

LCS (11C1150-BS1)

Prepared: 03/21/25 00:00 Analyzed: 03/21/25 11:29

Chloromethane	24.89	1.0	ug/L	30.3		82.1	5-205
Vinyl Chloride	26.38	1.0	ug/L	30.2		87.2	5-195
Bromomethane	24.82	1.0	ug/L	30.1		82.4	15-185
Chloroethane	26.04	1.0	ug/L	30.3		85.9	40-160
1,1-Dichloroethylene	51.72	1.0	ug/L	50.1		103	50-150
Methylene Chloride	40.81	5.0	ug/L	50.1		81.4	60-140
trans-1,2-Dichloroethylene	52.67	1.0	ug/L	50.1		105	70-130
1,1-Dichloroethane	51.60	1.0	ug/L	50.1		103	70-130
cis-1,2-Dichloroethylene	52.83	1.0	ug/L	50.4		105	57-148
2-Butanone (MEK)	106.3	10.0	ug/L	100		106	44-134
Chloroform	51.53	1.0	ug/L	50.1		103	70-135
1,1,1-Trichloroethane	51.16	1.0	ug/L	50.1		102	70-130
Carbon Tetrachloride	49.60	1.0	ug/L	50.1		99.0	70-130
Benzene	45.41	1.0	ug/L	50.4		90.0	65-135
1,2-Dichloroethane	51.21	1.0	ug/L	50.1		102	70-130
Trichloroethylene	48.42	1.0	ug/L	50.1		96.7	65-135
1,2-Dichloropropane	48.01	1.0	ug/L	50.1		95.8	35-165
Dibromomethane	51.08	1.0	ug/L	50.4		101	71-139
Bromodichloromethane	50.69	1.0	ug/L	50.1		101	65-135
2-Chloroethylvinyl ether	96.90	10.0	ug/L	100		96.9	5-225
cis-1,3-Dichloropropene	49.16	1.0	ug/L	50.1		98.2	25-175
Toluene	47.65	1.0	ug/L	50.5		94.4	70-130
trans-1,3-Dichloropropene	45.20	1.0	ug/L	50.1		90.3	50-150
1,1,2-Trichloroethane	44.69	1.0	ug/L	50.1		89.2	70-130
Tetrachloroethylene	47.98	1.0	ug/L	50.1		95.8	70-130
Chlorobenzene	45.65	1.0	ug/L	50.1		91.1	65-135
Ethylbenzene	50.24	1.0	ug/L	50.2		100	60-140
Xylenes, total	150.3	2.0	ug/L	151		99.5	79-126
Bromoform	45.95	1.0	ug/L	50.1		91.7	70-130
1,1,2,2-Tetrachloroethane	47.00	1.0	ug/L	50.1		93.8	60-140
1,3-Dichlorobenzene	48.76	1.0	ug/L	50.1		97.4	70-130
1,4-Dichlorobenzene	45.35	1.0	ug/L	50.1		90.5	65-135
1,2-Dichlorobenzene	45.40	1.0	ug/L	50.1		90.6	65-135

Surrogate: Dibromofluoromethane	51.6		ug/L	50.2		103	59-123
Surrogate: 1,2-Dichloroethane-d4	53.5		ug/L	50.1		107	56-130
Surrogate: Toluene-d8	47.7		ug/L	50.4		94.7	85-113
Surrogate: 4-Bromofluorobenzene	48.3		ug/L	50.1		96.3	82-112

LCS Dup (11C1150-BSD1)

Prepared: 03/21/25 00:00 Analyzed: 03/21/25 11:51

Chloromethane	27.75	1.0	ug/L	30.3		91.5	5-205	10.9	19

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CERTIFICATE OF ANALYSIS

1IC0819

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1150 - EPA 5030B - EPA 624.1										
LCS Dup (1IC1150-BSD1)										
Prepared: 03/21/25 00:00 Analyzed: 03/21/25 11:51										
Vinyl Chloride	28.59	1.0	ug/L	30.2		94.5	5-195	8.04	26	
Bromomethane	27.85	1.0	ug/L	30.1		92.5	15-185	11.5	20	
Chloroethane	28.82	1.0	ug/L	30.3		95.1	40-160	10.1	22	
1,1-Dichloroethylene	49.61	1.0	ug/L	50.1		99.0	50-150	4.16	19	
Methylene Chloride	44.75	5.0	ug/L	50.1		89.3	60-140	9.21	17	
trans-1,2-Dichloroethylene	49.71	1.0	ug/L	50.1		99.2	70-130	5.78	17	
1,1-Dichloroethane	50.06	1.0	ug/L	50.1		99.9	70-130	3.03	17	
cis-1,2-Dichloroethylene	50.52	1.0	ug/L	50.4		100	57-148	4.47	21	
2-Butanone (MEK)	99.14	10.0	ug/L	100		99.1	44-134	7.00	30	
Chloroform	49.24	1.0	ug/L	50.1		98.3	70-135	4.54	17	
1,1,1-Trichloroethane	50.06	1.0	ug/L	50.1		99.9	70-130	2.17	30	
Carbon Tetrachloride	48.30	1.0	ug/L	50.1		96.4	70-130	2.66	19	
Benzene	47.08	1.0	ug/L	50.4		93.3	65-135	3.61	17	
1,2-Dichloroethane	53.23	1.0	ug/L	50.1		106	70-130	3.87	15	
Trichloroethylene	47.95	1.0	ug/L	50.1		95.7	65-135	0.975	18	
1,2-Dichloropropane	49.61	1.0	ug/L	50.1		99.0	35-165	3.28	17	
Dibromomethane	53.51	1.0	ug/L	50.4		106	71-139	4.65	27	
Bromodichloromethane	52.55	1.0	ug/L	50.1		105	65-135	3.60	14	
2-Chloroethylvinyl ether	105.8	10.0	ug/L	100		106	5-225	8.80	26	
cis-1,3-Dichloropropene	51.95	1.0	ug/L	50.1		104	25-175	5.52	30	
Toluene	52.31	1.0	ug/L	50.5		104	70-130	9.32	17	
trans-1,3-Dichloropropene	50.97	1.0	ug/L	50.1		102	50-150	12.0	20	
1,1,2-Trichloroethane	49.67	1.0	ug/L	50.1		99.2	70-130	10.6	18	
Tetrachloroethylene	47.66	1.0	ug/L	50.1		95.1	70-130	0.669	16	
Chlorobenzene	48.99	1.0	ug/L	50.1		97.8	65-135	7.06	18	
Ethylbenzene	52.65	1.0	ug/L	50.2		105	60-140	4.68	17	
Xylenes, total	159.8	2.0	ug/L	151		106	79-126	6.11	18	
Bromoform	53.69	1.0	ug/L	50.1		107	70-130	15.5	21	
1,1,2,2-Tetrachloroethane	47.82	1.0	ug/L	50.1		95.4	60-140	1.73	30	
1,3-Dichlorobenzene	49.71	1.0	ug/L	50.1		99.3	70-130	1.93	15	
1,4-Dichlorobenzene	46.95	1.0	ug/L	50.1		93.7	65-135	3.47	15	
1,2-Dichlorobenzene	49.94	1.0	ug/L	50.1		99.7	65-135	9.52	15	
Surrogate: Dibromofluoromethane	47.6		ug/L	50.2		94.8	59-123			
Surrogate: 1,2-Dichloroethane-d4	49.7		ug/L	50.1		99.3	56-130			
Surrogate: Toluene-d8	50.1		ug/L	50.4		99.5	85-113			
Surrogate: 4-Bromofluorobenzene	51.4		ug/L	50.1		103	82-112			
Matrix Spike (1IC1150-MS1)										
Source: 1IC1317-07										
Prepared: 03/21/25 00:00 Analyzed: 03/21/25 22:35										
Chloromethane	301.0	10.0	ug/L	303	ND	99.3	5-273			
Vinyl Chloride	310.0	10.0	ug/L	302	ND	102	5-251			
Bromomethane	284.7	10.0	ug/L	301	ND	94.5	5-242			
Chloroethane	306.3	10.0	ug/L	303	ND	101	14-230			
1,1-Dichloroethylene	545.3	10.0	ug/L	501	ND	109	5-235			

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1150 - EPA 5030B - EPA 624.1										
Matrix Spike (1IC1150-MS1)	Source: 1IC1317-07			Prepared: 03/21/25 00:00 Analyzed: 03/21/25 22:35						
Methylene Chloride	468.4	50.0	ug/L	501	ND	93.5	5-221			
trans-1,2-Dichloroethylene	544.6	10.0	ug/L	501	ND	109	54-156			
1,1-Dichloroethane	548.5	10.0	ug/L	501	ND	109	59-155			
cis-1,2-Dichloroethylene	544.6	10.0	ug/L	504	ND	108	42-168			
2-Butanone (MEK)	1048	100	ug/L	1000	ND	105	57-133			
Chloroform	538.8	10.0	ug/L	501	ND	108	51-138			
1,1,1-Trichloroethane	542.1	10.0	ug/L	501	ND	108	52-162			
Carbon Tetrachloride	533.8	10.0	ug/L	501	ND	107	70-140			
Benzene	501.9	10.0	ug/L	504	ND	99.5	37-151			
1,2-Dichloroethane	556.3	10.0	ug/L	501	ND	111	59-155			
Trichloroethylene	500.7	10.0	ug/L	501	ND	100	70-157			
1,2-Dichloropropane	516.9	10.0	ug/L	501	ND	103	5-210			
Dibromomethane	548.1	10.0	ug/L	504	ND	109	62-141			
Bromodichloromethane	554.5	10.0	ug/L	501	ND	111	35-155			
2-Chloroethylvinyl ether	1098	100	ug/L	1000	ND	110	5-305			
cis-1,3-Dichloropropene	523.7	10.0	ug/L	501	ND	105	5-227			
Toluene	536.5	10.0	ug/L	505	ND	106	47-150			
trans-1,3-Dichloropropene	513.4	10.0	ug/L	501	ND	103	17-183			
1,1,2-Trichloroethane	506.4	10.0	ug/L	501	ND	101	52-150			
Tetrachloroethylene	487.3	10.0	ug/L	501	ND	97.3	64-148			
Chlorobenzene	498.3	10.0	ug/L	501	ND	99.5	37-160			
Ethylbenzene	524.4	10.0	ug/L	502	ND	105	79-119			
Xylenes, total	1593	20.0	ug/L	1510	ND	105	80-120			
Bromoform	556.1	10.0	ug/L	501	ND	111	45-169			
1,1,2,2-Tetrachloroethane	507.5	10.0	ug/L	501	ND	101	46-157			
1,3-Dichlorobenzene	501.1	10.0	ug/L	501	ND	100	59-156			
1,4-Dichlorobenzene	481.8	10.0	ug/L	501	ND	96.1	18-190			
1,2-Dichlorobenzene	512.5	10.0	ug/L	501	ND	102	18-190			
Surrogate: Dibromofluoromethane	522		ug/L	502		104	59-123			
Surrogate: 1,2-Dichloroethane-d4	540		ug/L	501		108	56-130			
Surrogate: Toluene-d8	500		ug/L	504		99.2	85-113			
Surrogate: 4-Bromofluorobenzene	513		ug/L	501		102	82-112			
Matrix Spike Dup (1IC1150-MSD1)	Source: 1IC1317-07			Prepared: 03/21/25 00:00 Analyzed: 03/21/25 22:57						
Chloromethane	294.1	10.0	ug/L	303	ND	97.0	5-273	2.32	60	
Vinyl Chloride	299.4	10.0	ug/L	302	ND	99.0	5-251	3.48	66	
Bromomethane	287.2	10.0	ug/L	301	ND	95.3	5-242	0.874	61	
Chloroethane	289.6	10.0	ug/L	303	ND	95.5	14-230	5.60	78	
1,1-Dichloroethylene	535.6	10.0	ug/L	501	ND	107	5-235	1.79	32	
Methylene Chloride	473.7	50.0	ug/L	501	ND	94.5	5-221	1.13	60	
trans-1,2-Dichloroethylene	529.6	10.0	ug/L	501	ND	106	54-156	2.79	45	
1,1-Dichloroethane	537.6	10.0	ug/L	501	ND	107	59-155	2.01	40	
cis-1,2-Dichloroethylene	538.3	10.0	ug/L	504	ND	107	42-168	1.16	28	

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1150 - EPA 5030B - EPA 624.1										
Matrix Spike Dup (1IC1150-MSD1)	Source: 1IC1317-07			Prepared: 03/21/25 00:00 Analyzed: 03/21/25 22:57						
2-Butanone (MEK)	1094	100	ug/L	1000	ND	109	57-133	4.21	30	
Chloroform	537.6	10.0	ug/L	501	ND	107	51-138	0.223	54	
1,1,1-Trichloroethane	528.3	10.0	ug/L	501	ND	105	52-162	2.58	36	
Carbon Tetrachloride	521.0	10.0	ug/L	501	ND	104	70-140	2.43	41	
Benzene	504.1	10.0	ug/L	504	ND	100	37-151	0.437	61	
1,2-Dichloroethane	576.9	10.0	ug/L	501	ND	115	59-155	3.64	49	
Trichloroethylene	508.4	10.0	ug/L	501	ND	101	70-157	1.53	48	
1,2-Dichloropropane	545.8	10.0	ug/L	501	ND	109	5-210	5.44	55	
Dibromomethane	574.2	10.0	ug/L	504	ND	114	62-141	4.65	11	
Bromodichloromethane	572.5	10.0	ug/L	501	ND	114	35-155	3.19	56	
2-Chloroethylvinyl ether	1162	100	ug/L	1000	ND	116	5-305	5.65	71	
cis-1,3-Dichloropropene	547.3	10.0	ug/L	501	ND	109	5-227	4.41	58	
Toluene	547.0	10.0	ug/L	505	ND	108	47-150	1.94	41	
trans-1,3-Dichloropropene	546.2	10.0	ug/L	501	ND	109	17-183	6.19	86	
1,1,2-Trichloroethane	545.6	10.0	ug/L	501	ND	109	52-150	7.45	45	
Tetrachloroethylene	492.9	10.0	ug/L	501	ND	98.4	64-148	1.14	39	
Chlorobenzene	512.4	10.0	ug/L	501	ND	102	37-160	2.79	53	
Ethylbenzene	540.4	10.0	ug/L	502	ND	108	79-119	3.01	63	
Xylenes, total	1632	20.0	ug/L	1510	ND	108	80-120	2.47	12	
Bromoform	566.2	10.0	ug/L	501	ND	113	45-169	1.80	42	
1,1,2,2-Tetrachloroethane	551.2	10.0	ug/L	501	ND	110	46-157	8.26	61	
1,3-Dichlorobenzene	542.1	10.0	ug/L	501	ND	108	59-156	7.86	43	
1,4-Dichlorobenzene	511.1	10.0	ug/L	501	ND	102	18-190	5.90	57	
1,2-Dichlorobenzene	558.7	10.0	ug/L	501	ND	112	18-190	8.63	57	
Surrogate: Dibromofluoromethane	522		ug/L	502		104	59-123			
Surrogate: 1,2-Dichloroethane-d4	532		ug/L	501		106	56-130			
Surrogate: Toluene-d8	502		ug/L	504		99.6	85-113			
Surrogate: 4-Bromofluorobenzene	514		ug/L	501		102	82-112			

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0804 - EPA 625 BNA - EPA 625.1										
Blank (1IC0804-BLK1)	Prepared: 03/17/25 15:38 Analyzed: 03/20/25 16:26									
N-Nitrosodimethylamine	<10	10	ug/L							
Phenol	<10	10	ug/L							
Aniline	<10	10	ug/L							
Bis(2-Chloroethyl) Ether	<10	10	ug/L							
2-Chlorophenol	<10	10	ug/L							
1,3-Dichlorobenzene	<10	10	ug/L							
1,4-Dichlorobenzene	<10	10	ug/L							

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CERTIFICATE OF ANALYSIS

1IC0819

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0804 - EPA 625 BNA - EPA 625.1									
Blank (1IC0804-BLK1)				Prepared: 03/17/25 15:38 Analyzed: 03/20/25 16:26					
Benzyl Alcohol	<10	10	ug/L						
1,2-Dichlorobenzene	<10	10	ug/L						
2-Methylphenol (o-Cresol)	<10	10	ug/L						
Bis[2-Chloroisopropyl]ether	<10	10	ug/L						
n-Nitroso-di-n-propylamine	<10	10	ug/L						
(3 & 4)-Methylphenol	<10	10	ug/L						
Hexachloroethane	<10	10	ug/L						
Nitrobenzene	<10	10	ug/L						
Isophorone	<10	10	ug/L						
2-Nitrophenol	<10	10	ug/L						
2,4-Dimethylphenol	<10	10	ug/L						
Bis (2-Chloroethoxy) Methane	<10	10	ug/L						
2,4-Dichlorophenol	<10	10	ug/L						
1,2,4-Trichlorobenzene	<10	10	ug/L						
Naphthalene	<10	10	ug/L						
4-Chloroaniline	<10	10	ug/L						
Hexachlorobutadiene	<10	10	ug/L						
4-Chloro-3-methylphenol	<10	10	ug/L						
2-Methylnaphthalene	<10	10	ug/L						
Hexachlorocyclopentadiene	<20	20	ug/L						
2,4,6-Trichlorophenol	<10	10	ug/L						
2,4,5-Trichlorophenol	<50	50	ug/L						
2-Chloronaphthalene	<10	10	ug/L						
2-Nitroaniline	<50	50	ug/L						
Dimethylphthalate	<10	10	ug/L						
Acenaphthylene	<10	10	ug/L						
2,6-Dinitrotoluene	<10	10	ug/L						
3-Nitroaniline	<10	10	ug/L						
Acenaphthene	<10	10	ug/L						
2,4-Dinitrophenol	<20	20	ug/L						
Dibenzofuran	<10	10	ug/L						
2,4-Dinitrotoluene	<10	10	ug/L						
4-Nitrophenol	<10	10	ug/L						
Diethyl Phthalate	<10	10	ug/L						
Fluorene	<10	10	ug/L						
4-Chlorophenyl Phenyl Ether	<10	10	ug/L						
4-Nitroaniline	<20	20	ug/L						
4,6-Dinitro-2-methylphenol	<20	20	ug/L						
N-Nitrosodiphenylamine	<10	10	ug/L						
Azobenzene	<10	10	ug/L						
4-Bromophenyl Phenyl Ether	<10	10	ug/L						
Hexachlorobenzene	<10	10	ug/L						

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11C0819

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0804 - EPA 625 BNA - EPA 625.1									
Blank (11C0804-BLK1)									
Prepared: 03/17/25 15:38 Analyzed: 03/20/25 16:26									
Pentachlorophenol	<20	20	ug/L						
Phenanthrene	<10	10	ug/L						
Anthracene	<10	10	ug/L						
Di-n-butyl Phthalate	<10	10	ug/L						
Fluoranthene	<10	10	ug/L						
Benzidine	<50	50	ug/L						
Pyrene	<10	10	ug/L						
Butyl Benzyl Phthalate	<10	10	ug/L						
Benzo(a)anthracene	<10	10	ug/L						
Chrysene	<10	10	ug/L						
Bis(2-Ethylhexyl) Phthalate	<10	10	ug/L						
Di-n-octyl Phthalate	<10	10	ug/L						
Indeno(1,2,3-cd)Pyrene	<10	10	ug/L						
3,3'-Dichlorobenzidine	<20	20	ug/L						
Benzo(b)Fluoranthene	<10	10	ug/L						
Benzo(k)Fluoranthene	<10	10	ug/L						
Benzo(a)Pyrene	<10	10	ug/L						
Dibenzo(a,h)anthracene	<10	10	ug/L						
Benzo(g,h,i)perylene	<10	10	ug/L						
Surrogate: 2-Fluorophenol	14.8		ug/L	20.6		71.9		16-140	
Surrogate: Phenol-d6	14.2		ug/L	19.6		72.6		13-147	
Surrogate: Nitrobenzene-d5	14.7		ug/L	20.6		71.6		17-150	
Surrogate: 2-Fluorobiphenyl	15.1		ug/L	19.5		77.4		15-134	
Surrogate: 2,4,6-Tribromophenol	19.9		ug/L	20.0		99.2		20-158	
Surrogate: Terphenyl-d14	19.0		ug/L	20.6		92.4		12-157	
LCS (11C0804-BS1)									
Prepared: 03/17/25 15:38 Analyzed: 03/20/25 16:50									
N-Nitrosodimethylamine	<10	10	ug/L	10.0		37.5		10-116	
Phenol	<10	10	ug/L	10.0		74.0		17-120	
Bis(2-Chloroethyl) Ether	<10	10	ug/L	10.0		70.7		43-126	
2-Chlorophenol	<10	10	ug/L	10.0		78.2		36-120	
1,3-Dichlorobenzene	<10	10	ug/L	10.0		64.8		18-95	
1,4-Dichlorobenzene	<10	10	ug/L	10.0		66.0		18-99	
Benzyl Alcohol	<10	10	ug/L	10.0		71.7		10-125	
1,2-Dichlorobenzene	<10	10	ug/L	10.0		67.9		20-100	
2-Methylphenol (o-Cresol)	<10	10	ug/L	10.0		76.3		35-117	
Bis[2-Chloroisopropyl]ether	<10	10	ug/L	10.0		75.4		63-139	
n-Nitroso-di-n-propylamine	<10	10	ug/L	10.0		70.5		14-198	
(3 & 4)-Methylphenol	<10	10	ug/L	10.0		78.0		37-114	
Hexachloroethane	<10	10	ug/L	10.0		63.7		55-120	
Nitrobenzene	<10	10	ug/L	10.0		73.6		54-158	
Isophorone	<10	10	ug/L	10.0		74.6		47-180	
2-Nitrophenol	<10	10	ug/L	10.0		81.9		45-167	

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Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0804 - EPA 625 BNA - EPA 625.1										
LCS (11C0804-BS1)				Prepared: 03/17/25 15:38 Analyzed: 03/20/25 16:50						
2,4-Dimethylphenol	<10	10	ug/L	10.0		79.5	42-120			
Bis (2-Chloroethoxy) Methane	<10	10	ug/L	10.0		73.5	49-165			
2,4-Dichlorophenol	<10	10	ug/L	10.0		85.6	53-122			
1,2,4-Trichlorobenzene	<10	10	ug/L	10.0		75.6	57-130			
Naphthalene	<10	10	ug/L	10.0		71.3	36-120			
Hexachlorobutadiene	<10	10	ug/L	10.0		68.0	38-120			
4-Chloro-3-methylphenol	<10	10	ug/L	10.0		82.4	41-128			
2-Methylnaphthalene	<10	10	ug/L	10.0		78.6	32-109			
Hexachlorocyclopentadiene	<20	20	ug/L	10.0		37.5	10-107			
2,4,6-Trichlorophenol	<10	10	ug/L	10.0		84.8	52-129			
2,4,5-Trichlorophenol	<50	50	ug/L	10.0		87.9	50-121			
2-Chloronaphthalene	<10	10	ug/L	10.0		71.2	65-120			
2-Nitroaniline	<50	50	ug/L	10.0		124	50-130			
Dimethylphthalate	<10	10	ug/L	10.0		81.2	1-120			
Acenaphthylene	<10	10	ug/L	10.0		75.3	54-126			
2,6-Dinitrotoluene	<10	10	ug/L	10.0		84.6	68-137			
3-Nitroaniline	<10	10	ug/L	10.0		28.1	10-149			
Acenaphthene	<10	10	ug/L	10.0		76.4	60-132			
2,4-Dinitrophenol	<20	20	ug/L	10.0		64.4	1-172			
Dibenzofuran	<10	10	ug/L	10.0		77.8	49-108			
2,4-Dinitrotoluene	<10	10	ug/L	10.0		84.5	48-127			
4-Nitrophenol	<10	10	ug/L	10.0		72.3	13-129			
Diethyl Phthalate	<10	10	ug/L	10.0		85.5	1-120			
Fluorene	<10	10	ug/L	10.0		78.7	70-120			
4-Chlorophenyl Phenyl Ether	<10	10	ug/L	10.0		79.8	38-145			
4-Nitroaniline	<20	20	ug/L	10.0		49.0	27-124			
4,6-Dinitro-2-methylphenol	<20	20	ug/L	10.0		79.4	53-130			
N-Nitrosodiphenylamine	<10	10	ug/L	10.0		78.6	29-136			
Azobenzene	<10	10	ug/L	10.0		78.2	51-113			
4-Bromophenyl Phenyl Ether	<10	10	ug/L	10.0		83.5	44-127			
Hexachlorobenzene	<10	10	ug/L	10.0		79.7	8-142			
Pentachlorophenol	<20	20	ug/L	10.0		54.5	38-152			
Phenanthrene	<10	10	ug/L	10.0		78.9	65-120			
Anthracene	<10	10	ug/L	10.0		78.0	43-120			
Di-n-butyl Phthalate	<10	10	ug/L	10.0		83.9	8-120			
Fluoranthene	<10	10	ug/L	10.0		83.0	42-121			
Pyrene	<10	10	ug/L	10.0		84.9	70-120			
Butyl Benzyl Phthalate	<10	10	ug/L	10.0		81.9	1-140			
Benzo(a)anthracene	<10	10	ug/L	10.0		81.2	42-133			
Chrysene	<10	10	ug/L	10.0		80.8	44-140			
Bis(2-Ethylhexyl) Phthalate	<10	10	ug/L	10.0		86.1	29-137			
Di-n-octyl Phthalate	<10	10	ug/L	10.0		90.2	19-132			

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11C0819

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0804 - EPA 625 BNA - EPA 625.1									
LCS (11C0804-BS1)									
				Prepared: 03/17/25 15:38 Analyzed: 03/20/25 16:50					
Indeno(1,2,3-cd)Pyrene	<10	10	ug/L	10.0		80.9	1-151		
Benzo(b)Fluoranthene	<10	10	ug/L	10.0		80.8	42-140		
Benzo(k)Fluoranthene	<10	10	ug/L	10.0		85.6	27-168		
Benzo(a)Pyrene	<10	10	ug/L	10.0		82.4	32-148		
Dibenzo(a,h)anthracene	<10	10	ug/L	10.0		80.9	1-200		
Benzo(g,h,i)perylene	<10	10	ug/L	10.0		80.7	1-195		
Surrogate: 2-Fluorophenol	15.4		ug/L	20.6		74.6	16-140		
Surrogate: Phenol-d6	15.4		ug/L	19.6		78.7	13-147		
Surrogate: Nitrobenzene-d5	15.8		ug/L	20.6		76.7	17-150		
Surrogate: 2-Fluorobiphenyl	15.4		ug/L	19.5		78.9	15-134		
Surrogate: 2,4,6-Tribromophenol	19.6		ug/L	20.0		98.0	20-158		
Surrogate: Terphenyl-d14	18.8		ug/L	20.6		91.1	12-157		
LCS Dup (11C0804-BSD1)									
				Prepared: 03/17/25 15:38 Analyzed: 03/20/25 17:14					
N-Nitrosodimethylamine	<10	10	ug/L	10.0		26.0	10-116	36.2	R1
Phenol	<10	10	ug/L	10.0		65.1	17-120	12.8	39
Bis(2-Chloroethyl) Ether	<10	10	ug/L	10.0		67.5	43-126	4.63	65
2-Chlorophenol	<10	10	ug/L	10.0		81.3	36-120	3.89	37
1,3-Dichlorobenzene	<10	10	ug/L	10.0		65.3	18-95	0.769	30
1,4-Dichlorobenzene	<10	10	ug/L	10.0		67.7	18-99	2.54	30
Benzyl Alcohol	<10	10	ug/L	10.0		59.1	10-125	19.3	30
1,2-Dichlorobenzene	<10	10	ug/L	10.0		69.5	20-100	2.33	30
2-Methylphenol (o-Cresol)	<10	10	ug/L	10.0		80.1	35-117	4.86	30
Bis[2-Chloroisopropyl]ether	<10	10	ug/L	10.0		75.5	63-139	0.133	46
n-Nitroso-di-n-propylamine	<10	10	ug/L	10.0		74.8	14-198	5.92	52
(3 & 4)-Methylphenol	<10	10	ug/L	10.0		82.2	37-114	5.24	28
Hexachloroethane	<10	10	ug/L	10.0		64.9	55-120	1.87	32
Nitrobenzene	<10	10	ug/L	10.0		74.4	54-158	1.08	37
Isophorone	<10	10	ug/L	10.0		74.8	47-180	0.268	56
2-Nitrophenol	<10	10	ug/L	10.0		82.3	45-167	0.487	33
2,4-Dimethylphenol	<10	10	ug/L	10.0		82.1	42-120	3.22	35
Bis (2-Chloroethoxy) Methane	<10	10	ug/L	10.0		74.2	49-165	0.948	32
2,4-Dichlorophenol	<10	10	ug/L	10.0		86.1	53-122	0.582	30
1,2,4-Trichlorobenzene	<10	10	ug/L	10.0		75.9	57-130	0.396	30
Naphthalene	<10	10	ug/L	10.0		71.7	36-120	0.559	39
Hexachlorobutadiene	<10	10	ug/L	10.0		69.2	38-120	1.75	38
4-Chloro-3-methylphenol	<10	10	ug/L	10.0		85.6	41-128	3.81	44
2-Methylnaphthalene	<10	10	ug/L	10.0		77.8	32-109	1.02	25
Hexachlorocyclopentadiene	<20	20	ug/L	10.0		39.5	10-107	5.19	30
2,4,6-Trichlorophenol	<10	10	ug/L	10.0		92.4	52-129	8.58	35
2,4,5-Trichlorophenol	<50	50	ug/L	10.0		93.5	50-121	6.17	25
2-Chloronaphthalene	<10	10	ug/L	10.0		74.8	65-120	4.93	26
2-Nitroaniline	<50	50	ug/L	10.0		94.6	50-130	27.1	30

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CERTIFICATE OF ANALYSIS

1IC0819

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0804 - EPA 625 BNA - EPA 625.1									
LCS Dup (1IC0804-BSD1)				Prepared: 03/17/25 15:38 Analyzed: 03/20/25 17:14					
Dimethylphthalate	<10	10	ug/L	10.0		86.5 1-120	6.32	110	
Acenaphthylene	<10	10	ug/L	10.0		79.2 54-126	5.05	45	
2,6-Dinitrotoluene	12.4	10	ug/L	10.0		124 68-137	38.1	29	R1
3-Nitroaniline	<10	10	ug/L	10.0		12.8 10-149	74.8	30	R1
Acenaphthene	<10	10	ug/L	10.0		81.1 60-132	5.97	29	
2,4-Dinitrophenol	<20	20	ug/L	10.0		92.8 1-172	36.1	79	
Dibenzofuran	<10	10	ug/L	10.0		82.6 49-108	5.99	26	
2,4-Dinitrotoluene	<10	10	ug/L	10.0		86.9 48-127	2.80	25	
4-Nitrophenol	<10	10	ug/L	10.0		80.8 13-129	11.1	79	
Diethyl Phthalate	<10	10	ug/L	10.0		86.1 1-120	0.699	60	
Fluorene	<10	10	ug/L	10.0		81.3 70-120	3.25	23	
4-Chlorophenyl Phenyl Ether	<10	10	ug/L	10.0		85.3 38-145	6.66	36	
4-Nitroaniline	<20	20	ug/L	10.0		37.0 27-124	27.9	30	
4,6-Dinitro-2-methylphenol	<20	20	ug/L	10.0		97.1 53-130	20.1	122	
N-Nitrosodiphenylamine	<10	10	ug/L	10.0		85.4 29-136	8.29	30	
Azobenzene	<10	10	ug/L	10.0		92.1 51-113	16.3	25	
4-Bromophenyl Phenyl Ether	<10	10	ug/L	10.0		94.5 44-127	12.4	30	
Hexachlorobenzene	<10	10	ug/L	10.0		90.3 8-142	12.5	33	
Pentachlorophenol	<20	20	ug/L	10.0		88.4 38-152	47.4	52	
Phenanthrene	<10	10	ug/L	10.0		86.1 65-120	8.73	24	
Anthracene	<10	10	ug/L	10.0		84.8 43-120	8.35	40	
Di-n-butyl Phthalate	<10	10	ug/L	10.0		89.6 8-120	6.57	28	
Fluoranthene	<10	10	ug/L	10.0		83.1 42-121	0.120	40	
Pyrene	<10	10	ug/L	10.0		91.8 70-120	7.81	30	
Butyl Benzyl Phthalate	<10	10	ug/L	10.0		87.3 1-140	6.38	37	
Benzo(a)anthracene	<10	10	ug/L	10.0		86.5 42-133	6.32	32	
Chrysene	<10	10	ug/L	10.0		86.9 44-140	7.27	53	
Bis(2-Ethylhexyl) Phthalate	10.1	10	ug/L	10.0		101 29-137	15.5	50	
Di-n-octyl Phthalate	<10	10	ug/L	10.0		96.6 19-132	6.85	42	
Indeno(1,2,3-cd)Pyrene	<10	10	ug/L	10.0		93.8 1-151	14.8	60	
Benzo(b)Fluoranthene	<10	10	ug/L	10.0		85.2 42-140	5.30	38	
Benzo(k)Fluoranthene	<10	10	ug/L	10.0		91.4 27-168	6.55	30	
Benzo(a)Pyrene	<10	10	ug/L	10.0		90.5 32-148	9.37	43	
Dibenzo(a,h)anthracene	<10	10	ug/L	10.0		92.7 1-200	13.6	75	
Benzo(g,h,i)perylene	<10	10	ug/L	10.0		94.5 1-195	15.8	61	
Surrogate: 2-Fluorophenol	15.0		ug/L	20.6		72.7 16-140			
Surrogate: Phenol-d6	13.1		ug/L	19.6		67.0 13-147			
Surrogate: Nitrobenzene-d5	15.7		ug/L	20.6		76.4 17-150			
Surrogate: 2-Fluorobiphenyl	16.4		ug/L	19.5		83.9 15-134			
Surrogate: 2,4,6-Tribromophenol	20.1		ug/L	20.0		100 20-158			
Surrogate: Terphenyl-d14	19.2		ug/L	20.6		93.0 12-157			

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CERTIFICATE OF ANALYSIS

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Determination of Organochlorine Insecticides & PCBs	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0617 - 3520C NP/OC Cont Liq - EPA 608.3 GC-ECD									
Blank (11C0617-BLK1)									
Prepared: 03/13/25 10:33 Analyzed: 03/20/25 10:05									
Alpha-BHC	<0.05	0.05	ug/L						
Gamma-BHC [Lindane]	<0.05	0.05	ug/L						
Beta-BHC	<0.05	0.05	ug/L						
Heptachlor	<0.05	0.05	ug/L						
Delta-BHC	<0.05	0.05	ug/L						
Aldrin	<0.05	0.05	ug/L						
Heptachlor Epoxide	<0.05	0.05	ug/L						
Endosulfan I	<0.05	0.05	ug/L						
4,4'-DDE	<0.05	0.05	ug/L						
Dieldrin	<0.05	0.05	ug/L						
Endrin	<0.05	0.05	ug/L						
4,4'-DDD	<0.05	0.05	ug/L						
Endosulfan II	<0.05	0.05	ug/L						
4,4'-DDT	<0.05	0.05	ug/L						
Endrin Aldehyde	<0.05	0.05	ug/L						
Endosulfan Sulfate	<0.05	0.05	ug/L						
Methoxychlor	<0.05	0.05	ug/L						
Chlordane	<0.10	0.10	ug/L						
Toxaphene	<0.20	0.20	ug/L						
Arochlor 1016	<0.20	0.20	ug/L						
Arochlor 1221	<0.20	0.20	ug/L						
Arochlor 1232	<0.20	0.20	ug/L						
Arochlor 1242	<0.20	0.20	ug/L						
Arochlor 1248	<0.20	0.20	ug/L						
Arochlor 1254	<0.20	0.20	ug/L						
Arochlor 1260	<0.20	0.20	ug/L						
Surrogate: Decachlorobiphenyl	0.0896		ug/L	0.600		14.9		12-130	
Surrogate: Tetrachloro-m-xylene	0.445		ug/L	0.600		74.2		31-116	
LCS (11C0617-BS1)									
Prepared: 03/13/25 10:33 Analyzed: 03/20/25 10:24									
Alpha-BHC	0.205	0.05	ug/L	0.250		81.9		56-125	
Gamma-BHC [Lindane]	0.229	0.05	ug/L	0.250		91.8		44-124	
Beta-BHC	0.191	0.05	ug/L	0.250		76.3		56-122	
Heptachlor	0.214	0.05	ug/L	0.250		85.7		57-124	
Delta-BHC	0.228	0.05	ug/L	0.250		91.2		53-138	
Aldrin	0.212	0.05	ug/L	0.250		85.0		53-114	
Heptachlor Epoxide	0.246	0.05	ug/L	0.250		98.6		61-128	
Endosulfan I	0.218	0.05	ug/L	0.250		87.3		60-124	
4,4'-DDE	0.221	0.05	ug/L	0.250		88.4		59-122	
Dieldrin	0.222	0.05	ug/L	0.250		89.0		52-119	
Endrin	0.234	0.05	ug/L	0.250		93.5		45-152	
4,4'-DDD	0.215	0.05	ug/L	0.250		86.2		59-127	

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Determination of Organochlorine Insecticides & PCBs	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0617 - 3520C NP/OC Cont Liq - EPA 608.3 GC-ECD									
LCS (11C0617-BS1) Prepared: 03/13/25 10:33 Analyzed: 03/20/25 10:24									
Endosulfan II	0.228	0.05	ug/L	0.250		91.2	57-130		
4,4'-DDT	0.216	0.05	ug/L	0.250		86.4	55-143		
Endrin Aldehyde	0.182	0.05	ug/L	0.250		73.0	55-139		
Endosulfan Sulfate	0.217	0.05	ug/L	0.250		86.9	64-123		
Methoxychlor	0.204	0.05	ug/L	0.250		81.7	60-153		
Surrogate: Decachlorobiphenyl	0.100		ug/L	0.600		16.7	12-130		
Surrogate: Tetrachloro-m-xylene	0.491		ug/L	0.600		81.9	31-116		
LCS Dup (11C0617-BSD1) Prepared: 03/13/25 10:33 Analyzed: 03/20/25 10:41									
Alpha-BHC	0.206	0.05	ug/L	0.250		82.2	56-125	0.383	30
Gamma-BHC [Lindane]	0.230	0.05	ug/L	0.250		92.0	44-124	0.211	30
Beta-BHC	0.187	0.05	ug/L	0.250		74.8	56-122	1.91	30
Heptachlor	0.216	0.05	ug/L	0.250		86.4	57-124	0.802	30
Delta-BHC	0.233	0.05	ug/L	0.250		93.4	53-138	2.32	30
Aldrin	0.217	0.05	ug/L	0.250		86.8	53-114	2.20	30
Heptachlor Epoxide	0.264	0.05	ug/L	0.250		106	61-128	6.95	30
Endosulfan I	0.210	0.05	ug/L	0.250		84.1	60-124	3.73	30
4,4'-DDE	0.226	0.05	ug/L	0.250		90.2	59-122	2.08	30
Dieldrin	0.229	0.05	ug/L	0.250		91.8	52-119	3.06	30
Endrin	0.238	0.05	ug/L	0.250		95.1	45-152	1.74	30
4,4'-DDD	0.219	0.05	ug/L	0.250		87.5	59-127	1.54	30
Endosulfan II	0.231	0.05	ug/L	0.250		92.5	57-130	1.44	30
4,4'-DDT	0.220	0.05	ug/L	0.250		88.0	55-143	1.86	30
Endrin Aldehyde	0.199	0.05	ug/L	0.250		79.5	55-139	8.59	30
Endosulfan Sulfate	0.222	0.05	ug/L	0.250		88.8	64-123	2.08	30
Methoxychlor	0.215	0.05	ug/L	0.250		86.1	60-153	5.25	30
Surrogate: Decachlorobiphenyl	0.0703		ug/L	0.600		11.7	12-130		S2
Surrogate: Tetrachloro-m-xylene	0.510		ug/L	0.600		85.0	31-116		
Reference (11C0617-SRM1) Prepared: 03/13/25 10:33 Analyzed: 03/20/25 10:58									
Alpha-BHC	0.225	0.05	ug/L	0.250		90.1	80-120		
Gamma-BHC [Lindane]	0.242	0.05	ug/L	0.250		96.7	80-120		
Beta-BHC	0.230	0.05	ug/L	0.250		92.2	80-120		
Heptachlor	0.225	0.05	ug/L	0.250		90.0	80-120		
Delta-BHC	0.247	0.05	ug/L	0.250		98.9	80-120		
Aldrin	0.232	0.05	ug/L	0.250		93.0	80-120		
Heptachlor Epoxide	0.251	0.05	ug/L	0.250		100	80-120		
Endosulfan I	0.240	0.05	ug/L	0.250		96.1	80-120		
4,4'-DDE	0.228	0.05	ug/L	0.250		91.2	80-120		
Dieldrin	0.225	0.05	ug/L	0.250		90.1	80-120		
Endrin	0.234	0.05	ug/L	0.250		93.7	80-120		
4,4'-DDD	0.219	0.05	ug/L	0.250		87.7	80-120		

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Determination of Organochlorine Insecticides & PCBs	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0617 - 3520C NP/OC Cont Liq - EPA 608.3 GC-ECD										
Reference (11C0617-SRM1)	Prepared: 03/13/25 10:33 Analyzed: 03/20/25 10:58									
Endosulfan II	0.232	0.05	ug/L	0.250		92.9	80-120			
4,4'-DDT	0.235	0.05	ug/L	0.250		93.9	80-120			
Endrin Aldehyde	0.259	0.05	ug/L	0.250		103	80-120			
Endosulfan Sulfate	0.234	0.05	ug/L	0.250		93.6	80-120			
Methoxychlor	0.220	0.05	ug/L	0.250		87.9	80-120			
Surrogate: Decachlorobiphenyl	0.652		ug/L	0.600		109	12-130			
Surrogate: Tetrachloro-m-xylene	0.603		ug/L	0.600		100	31-116			

Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0593 - General Prep Micro - SM 5210 B-2016										
Blank (11C0593-BLK1)	Prepared: 03/12/25 17:21 Analyzed: 03/12/25 18:27									
BOD (5 day)	<2	2	mg/L							AC, K1
Duplicate (11C0593-DUP1)	Source: 11C0818-01 Prepared: 03/12/25 17:21 Analyzed: 03/12/25 18:56									
BOD (5 day)	53.8	24	mg/L		61.3			13.0	30	
Reference (11C0593-SRM1)	Prepared: 03/12/25 17:21 Analyzed: 03/12/25 18:41									
BOD (5 day)	186	100	mg/L	198		93.7	84.6-115.4			

Batch 11C0680 - Wet Chem Preparation - USGS I-1750-85

Blank (11C0680-BLK1)	Prepared: 03/14/25 06:45 Analyzed: 03/18/25 12:48									
Total Dissolved Solids (TDS)	<5	5	mg/L							
LCS (11C0680-BS1)	Prepared: 03/14/25 06:45 Analyzed: 03/18/25 12:48									
Total Dissolved Solids (TDS)	101	5	mg/L	100		101	79-114			
Duplicate (11C0680-DUP1)	Source: 11C0804-01 Prepared: 03/14/25 06:45 Analyzed: 03/18/25 12:48									
Total Dissolved Solids (TDS)	357	5	mg/L		347			3.03	24	

Batch 11C0764 - General Prep HPLC/IC - TIMBERLINE

Blank (11C0764-BLK1)	Prepared: 03/17/25 09:47 Analyzed: 03/17/25 10:59									
Nitrogen, Ammonia	<0.10	0.10	mg/L							
LCS (11C0764-BS1)	Prepared: 03/17/25 09:47 Analyzed: 03/17/25 11:01									
Nitrogen, Ammonia	4.68	0.10	mg/L	5.00		93.6	90-114			
Matrix Spike (11C0764-MS1)	Source: 11C0824-02 Prepared: 03/17/25 09:47 Analyzed: 03/17/25 11:04									
Nitrogen, Ammonia	9.04	0.10	mg/L	5.00	4.05	99.7	84-115			
Matrix Spike Dup (11C0764-MSD1)	Source: 11C0824-02 Prepared: 03/17/25 09:47 Analyzed: 03/17/25 11:06									
Nitrogen, Ammonia	9.04	0.10	mg/L	5.00	4.05	99.7	84-115	0.00110	20	



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Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0822 - Wet Chem Preparation - EPA 1664A									
Blank (1IC0822-BLK1)				Prepared: 03/18/25 08:33 Analyzed: 03/19/25 07:30					
Oil and Grease	<4	4	mg/L						
LCS (1IC0822-BS1)				Prepared: 03/18/25 08:33 Analyzed: 03/19/25 07:30					
Oil and Grease	35.5	4	mg/L	40.0		88.8	78-114		
Matrix Spike (1IC0822-MS1)				Source: 1IC1088-01 Prepared: 03/18/25 08:33 Analyzed: 03/19/25 07:30					
Oil and Grease	7.0	4	mg/L	40.0	ND	17.4	78-114		M2
Matrix Spike Dup (1IC0822-MSD1)				Source: 1IC1088-01 Prepared: 03/18/25 08:33 Analyzed: 03/19/25 07:30					
Oil and Grease	6.6	4	mg/L	40.0	ND	16.6	78-114	4.97	18 M2
Batch 1IC0907 - Wet Chem Preparation - USGS I-3765-85									
Blank (1IC0907-BLK1)				Prepared: 03/19/25 06:59 Analyzed: 03/19/25 11:07					
Total Suspended Solids (TSS)	<1	1	mg/L						
LCS (1IC0907-BS1)				Prepared: 03/19/25 06:59 Analyzed: 03/19/25 11:07					
Total Suspended Solids (TSS)	13.9	1	mg/L	15.0		92.7	71-110		
Duplicate (1IC0907-DUP1)				Source: 1IC1012-01 Prepared: 03/19/25 06:59 Analyzed: 03/19/25 11:07					
Total Suspended Solids (TSS)	88.0	10	mg/L		95.0			7.65	30
Batch 1IC1130 - Wet Chem Preparation - EPA 351.2, Rv. 2 (1993)									
Blank (1IC1130-BLK1)				Prepared: 03/21/25 16:45 Analyzed: 03/25/25 13:36					
Nitrogen, Kjeldahl, total	<1.00	1.00	mg/L						
LCS (1IC1130-BS1)				Prepared & Analyzed: 03/21/25 16:45					
Nitrogen, Kjeldahl, total	0.91	0.05	mg/L	1.00		91.2	90-110		
Matrix Spike (1IC1130-MS1)				Source: 1IC0741-02 Prepared & Analyzed: 03/21/25 16:45					
Nitrogen, Kjeldahl, total	48.0	2.50	mg/L	50.0	ND	96.0	90-110		
Matrix Spike Dup (1IC1130-MSD1)				Source: 1IC0741-02 Prepared: 03/21/25 16:45 Analyzed: 03/25/25 13:40					
Nitrogen, Kjeldahl, total	49.8	2.50	mg/L	50.0	ND	99.5	90-110	3.54	10
Batch 1IC1376 - TOC/DOC - 5310B									
Blank (1IC1376-BLK1)				Prepared: 03/26/25 00:00 Analyzed: 03/26/25 11:15					
Total Organic Carbon	<0.50	0.50	mg/L						
LCS (1IC1376-BS1)				Prepared: 03/26/25 00:00 Analyzed: 03/26/25 13:13					
Total Organic Carbon	5.44	0.50	mg/L	5.00		109	89-116		
LCS Dup (1IC1376-BSD1)				Prepared: 03/26/25 00:00 Analyzed: 03/26/25 11:00					
Total Organic Carbon	5.42	0.50	mg/L	5.00		108	89-116	0.313	10
Matrix Spike (1IC1376-MS1)				Source: 1IC0692-01 Prepared: 03/26/25 00:00 Analyzed: 03/26/25 16:41					
Total Organic Carbon	30.25	0.50	mg/L	5.00	26.62	72.6	50-133		
Matrix Spike Dup (1IC1376-MSD1)				Source: 1IC0692-01 Prepared: 03/26/25 00:00 Analyzed: 03/26/25 16:57					
Total Organic Carbon	31.66	0.50	mg/L	5.00	26.62	101	50-133	4.55	10

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Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0737 - EPA 200.2 Total ICP-MS - EPA 200.8, Rv. 5.4 (1994)										
Blank (11C0737-BLK1)				Prepared: 03/14/25 16:05 Analyzed: 03/18/25 02:00						
Arsenic, total	<0.0020	0.0020	mg/L							
Barium, total	<0.0020	0.0020	mg/L							
Cadmium, total	<0.0002	0.0002	mg/L							
Chromium, total	<0.0020	0.0020	mg/L							
Copper, total	<0.0020	0.0020	mg/L							
Lead, total	<0.0008	0.0008	mg/L							
Nickel, total	<0.0040	0.0040	mg/L							
Selenium, total	<0.0040	0.0040	mg/L							
Silver, total	<0.0020	0.0020	mg/L							
Zinc, total	<0.0200	0.0200	mg/L							
LCS (11C0737-BS1)				Prepared: 03/14/25 16:05 Analyzed: 03/18/25 02:18						
Arsenic, total	0.0891	0.0020	mg/L	0.100		89.1	85-115			
Barium, total	0.104	0.0020	mg/L	0.100		104	85-115			
Cadmium, total	0.0917	0.0002	mg/L	0.100		91.7	85-115			
Chromium, total	0.0890	0.0020	mg/L	0.100		89.0	85-115			
Copper, total	0.0944	0.0020	mg/L	0.100		94.4	85-115			
Lead, total	0.0965	0.0008	mg/L	0.100		96.5	85-115			
Nickel, total	0.0961	0.0040	mg/L	0.100		96.1	85-115			
Selenium, total	0.0939	0.0040	mg/L	0.100		93.9	85-115			
Silver, total	0.100	0.0020	mg/L	0.100		100	85-115			
Zinc, total	0.100	0.0200	mg/L	0.100		100	85-115			
Matrix Spike (11C0737-MS1)				Source: 11C0834-01		Prepared: 03/14/25 16:05 Analyzed: 03/18/25 02:43				
Arsenic, total	0.0945	0.0020	mg/L	0.100	0.0017	92.7	70-130			
Barium, total	0.335	0.0020	mg/L	0.100	0.238	97.2	70-130			
Cadmium, total	0.0921	0.0002	mg/L	0.100	0.0003	91.7	70-130			
Chromium, total	0.123	0.0020	mg/L	0.100	0.0048	118	70-130			
Copper, total	0.178	0.0020	mg/L	0.100	0.137	40.8	70-130			M2
Lead, total	0.100	0.0008	mg/L	0.100	0.0072	93.0	70-130			
Nickel, total	0.0997	0.0040	mg/L	0.100	0.0060	93.7	70-130			
Selenium, total	0.0925	0.0040	mg/L	0.100	0.0022	90.3	70-130			
Silver, total	0.0982	0.0020	mg/L	0.100	ND	98.2	70-130			
Zinc, total	0.738	0.0200	mg/L	0.100	0.631	107	70-130			
Matrix Spike Dup (11C0737-MSD1)				Source: 11C0834-01		Prepared: 03/14/25 16:05 Analyzed: 03/18/25 02:49				
Arsenic, total	0.0951	0.0020	mg/L	0.100	0.0017	93.4	70-130	0.668	20	
Barium, total	0.328	0.0020	mg/L	0.100	0.238	90.5	70-130	2.02	20	
Cadmium, total	0.0932	0.0002	mg/L	0.100	0.0003	92.8	70-130	1.16	20	
Chromium, total	0.122	0.0020	mg/L	0.100	0.0048	117	70-130	1.03	20	
Copper, total	0.174	0.0020	mg/L	0.100	0.137	37.2	70-130	2.02	20	M2
Lead, total	0.0998	0.0008	mg/L	0.100	0.0072	92.7	70-130	0.349	20	

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Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0737 - EPA 200.2 Total ICP-MS - EPA 200.8, Rv. 5.4 (1994)										
Matrix Spike Dup (11C0737-MSD1)		Source: 11C0834-01		Prepared: 03/14/25 16:05 Analyzed: 03/18/25 02:49						
Nickel, total	0.101	0.0040	mg/L	0.100	0.0060	94.9	70-130	1.18	20	
Selenium, total	0.0943	0.0040	mg/L	0.100	0.0022	92.2	70-130	2.00	20	
Silver, total	0.0981	0.0020	mg/L	0.100	ND	98.1	70-130	0.101	20	
Zinc, total	0.715	0.0200	mg/L	0.100	0.631	84.3	70-130	3.09	20	
Post Spike (11C0737-PS1)		Source: 11C0834-01		Prepared: 03/14/25 16:05 Analyzed: 03/18/25 02:55						
Arsenic, total	0.0751		mg/L	0.0800	0.0017	91.7	70-130			
Barium, total	0.308		mg/L	0.0800	0.233	93.7	70-130			
Cadmium, total	0.0722		mg/L	0.0800	0.0003	89.8	70-130			
Chromium, total	0.0930		mg/L	0.0800	0.0048	110	70-130			
Copper, total	0.209		mg/L	0.0800	0.134	93.7	70-130			
Lead, total	0.0798		mg/L	0.0800	0.0070	91.0	70-130			
Nickel, total	0.0820		mg/L	0.0800	0.0059	95.1	70-130			
Selenium, total	0.0789		mg/L	0.0800	0.0021	96.0	70-130			
Silver, total	0.0776		mg/L	0.0800	0.0004	96.5	70-130			
Zinc, total	0.693		mg/L	0.0800	0.618	93.0	70-130			
Batch 11C0910 - EPA 200.2 Total ICP-OES (200.7) - 200.7										
Blank (11C0910-BLK1)		Prepared: 03/19/25 07:10 Analyzed: 03/19/25 22:35								
Iron, total	<0.100	0.100	mg/L							
LCS (11C0910-BS1)		Prepared: 03/19/25 07:10 Analyzed: 03/19/25 22:41								
Iron, total	2.49	0.100	mg/L	2.20		113	85-115			
Matrix Spike (11C0910-MS1)		Source: 11C0655-01		Prepared: 03/19/25 07:10 Analyzed: 03/19/25 22:56						
Iron, total	2.99	0.100	mg/L	2.20	0.619	108	70-130			
Matrix Spike Dup (11C0910-MSD1)		Source: 11C0655-01		Prepared: 03/19/25 07:10 Analyzed: 03/19/25 23:07						
Iron, total	3.18	0.100	mg/L	2.20	0.619	116	70-130	5.99	20	
Post Spike (11C0910-PS1)		Source: 11C0655-01		Prepared: 03/19/25 07:10 Analyzed: 03/19/25 23:17						
Iron, total	10.7		mg/L	8.80	0.619	115	85-115			
Batch 11C1059 - EPA 7470A Hg Water - 245.1										
Blank (11C1059-BLK1)		Prepared: 03/20/25 15:33 Analyzed: 03/21/25 12:54								
Mercury, total	<0.00050	0.00050	mg/L							
LCS (11C1059-BS1)		Prepared: 03/20/25 15:33 Analyzed: 03/21/25 12:57								
Mercury, total	0.00227	0.00050	mg/L	0.00250		90.7	85-115			
Matrix Spike (11C1059-MS1)		Source: 11C0688-01		Prepared: 03/20/25 15:33 Analyzed: 03/21/25 13:08						
Mercury, total	0.00210	0.00050	mg/L	0.00250	ND	84.1	70-130			
Matrix Spike Dup (11C1059-MSD1)		Source: 11C0688-01		Prepared: 03/20/25 15:33 Analyzed: 03/21/25 13:13						
Mercury, total	0.00235	0.00050	mg/L	0.00250	ND	94.2	70-130	11.3	10	R1



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Definitions

AC: BOD blank = 0.35mg/L
D4: Dilution was performed due to high non-target analyte concentration.
H: Sample was analyzed past holding time.
K1: Unseeded dilution blank depletion exceeds 0.2 mg/L.
M2: Matrix spike recovery is below acceptance limits.
Q8: CCV recovery is below acceptance limits. The reported value is estimated.
R1: Duplicate RPD is outside acceptance criteria.
RL: Reporting Limit
RPD: Relative Percent Difference
S2: Surrogate recovery is below acceptance limits.

Cooler Receipt Log

Cooler ID: Default Cooler **Temp:** 0.0°C

Cooler Inspection Checklist

Custody Seals	No	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Confirmed	No
Received On Ice	Yes		

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
04/01/25 15:59



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1 I C 0 8 1 9

HLW Engineering
PM: Heather Murphy

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SITE INFORMATION

Sampler: JCH
Project: Page County Annual Leachate
Leachate Sampling

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Brian Ward
Page County Landfill Assoc.
2032 N Ave
Clarinda, IA 51632

LAB USE ONLY

Work Order IC0819
Temperature 0.0
Turn-Cooler: No

☐ Custody Seal
☒ Containers Intact
☒ COC/Labels Agree
☒ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	Leachate Tank	Aqueous	GRAB	<u>3/11/25</u>	<u>13:48</u>	<u>13</u>	608-101 625-100 as-i-200.8 bod-5210 cr-i-200.8 fe-i-200.7 nh3-timberline og-i-1664 se-i-200.8 tkn-351.2 tss-i-3765-85 624-105 ag-i-200.8 ba-i-200.8 cd-i-200.8 cu-i-200.8 hg-i-245.1 ni-i-200.8 pb-i-200.8 ids-i-1750-85 toc-3310b zr-i-200.8	<u>01</u>

Relinquished By [Signature] Date/Time 3/12/25

Received By _____ Date/Time _____

Relinquished By [Signature] Date/Time 3/12/25 10:20 AM

Received for Lab By [Signature] Date/Time _____

Original - Lab Copy Yellow - Sampler Copy

Remarks:

Appendix H.5 – Leachate Piezometer Elevation Monitoring

Table H.2 – Unlined Areas

Table H.3 – RCRA Subtitle D Lined Cells

	PAGE COUNTY LANDFILL						
	TABLE H2 - LEACHATE PIEZOMETER MEASUREMENTS - UNLINED AREAS						
	LPZ 1	LPZ 24	LPZ 25	LPZ 29	LPZ 33	LPZ 36	LPZ 38
TOC ELV.	1122.27	1168.23	1167.80	1141.56	1166.21	1167.91	1164.89
Depth	23.70	24.20	19.50	20.30	20.20	22.60	23.30
		2.00			5.50	5.00	
Year	10/02	2010	10/02	10/02	2010	2010	10/02
Old TOC Elv.							
New Depth	23.70	26.20	19.50	20.30	25.70	27.60	23.30
New TOC Elv.	1122.27	1170.23	1167.80	1141.56	1171.71	1172.91	1164.89
bottom Elv	1098.57	1144.03	1148.30	1121.26	1146.01	1145.31	1141.59
DATE	LEACHATE ELEVATIONS						
1/2/2015	1099.04	1146.99	1151.40	1124.46	1146.52	1152.47	1143.89
2/6/2015							
3/4/2015							
4/8/2015	1101.52	1146.32	1152.08	1124.13	1146.52	1152.98	1143.89
5/5/2015							
6/2/2015							
7/1/2015	1100.95	1146.30	1151.79	1124.11	1146.52	1152.76	1143.89
8/4/2015							
9/3/2015							
10/6/2015							
11/4/2015							
12/3/2015	1103.18	1147.03	1152.23	1124.37	1146.39	1153.59	1144.00
1/4/2016	1103.18	1147.03	1152.23	1124.37	1146.39	1153.68	1144.00
2/1/2016							
3/1/2016							
4/1/2016							
5/2/2016							
6/3/2016							
7/8/2016	1101.72		1151.90	1123.67	1146.64	1153.04	1144.33
8/16							
9/16							
10/16							
11/16							
12/16							
1/6/2017							
2/13/2017							
3/14/2017							
4/12/2017							
5/15/2017							
6/12/2017							
7/13/2017	1102.37	1146.73	1151.60	1124.16	1146.81	1152.71	1144.39
8/8/2017							
9/10/2017							
10/16/2017							
11/6/2017							
12/22/2017							

	PAGE COUNTY LANDFILL						
	TABLE H2 - LEACHATE PIEZOMETER MEASUREMENTS - UNLINED AREAS						
	LPZ 1	LPZ 24	LPZ 25	LPZ 29	LPZ 33	LPZ 36	LPZ 38
TOC ELV.	1122.27	1168.23	1167.80	1141.56	1166.21	1167.91	1164.89
Depth	23.70	24.20	19.50	20.30	20.20	22.60	23.30
		2.00			5.50	5.00	
Year	10/02	2010	10/02	10/02	2010	2010	10/02
Old TOC Elv.							
New Depth	23.70	26.20	19.50	20.30	25.70	27.60	23.30
New TOC Elv.	1122.27	1170.23	1167.80	1141.56	1171.71	1172.91	1164.89
bottom Elv	1098.57	1144.03	1148.30	1121.26	1146.01	1145.31	1141.59
DATE	LEACHATE ELEVATIONS						
1/10/2018	1102.27	1146.63	1150.50	1125.06	1146.71	1152.76	1144.29
2/5/2018							
3/19/2018							
4/5/2018							
5/2/2018							
6/15/2018							
7/6/2018	1102.37	1146.63	1151.50	1124.21	1146.71	1152.61	1144.34
8/29/2018							
9/10/2018							
10/15/2018							
11/9/2018							
12/18/2018							
1/7/2019	1102.37						
2/4/2019							
3/12/2019							
4/8/2019							
5/14/2019							
6/6/2019							
7/17/2019	1102.17	1146.83	1150.80	1124.21	1146.61	1152.61	1144.19
8/8/2019							
9/11/2019							
10/1/2019							
11/8/2019							
12/21/2019							
1/20/2020	1102.57	1146.63	1150.65	1124.26	1146.81	1152.90	1144.24
2/5/2020							
3/16/2020							
4/23/2020							
5/6/2020							
6/15/2020							
7/9/2020	1102.17	1146.53	1150.70	1124.21	1146.71	1152.81	1144.79
8/23/2020							
9/13/2020							
10/6/2020							
11/4/2020							
12/18/2020							

	PAGE COUNTY LANDFILL						
	TABLE H2 - LEACHATE PIEZOMETER MEASUREMENTS - UNLINED AREAS						
	LPZ 1	LPZ 24	LPZ 25	LPZ 29	LPZ 33	LPZ 36	LPZ 38
TOC ELV.	1122.27	1168.23	1167.80	1141.56	1166.21	1167.91	1164.89
Depth	23.70	24.20	19.50	20.30	20.20	22.60	23.30
		2.00			5.50	5.00	
Year	10/02	2010	10/02	10/02	2010	2010	10/02
Old TOC Elv.							
New Depth	23.70	26.20	19.50	20.30	25.70	27.60	23.30
New TOC Elv.	1122.27	1170.23	1167.80	1141.56	1171.71	1172.91	1164.89
bottom Elv	1098.57	1144.03	1148.30	1121.26	1146.01	1145.31	1141.59
DATE	LEACHATE ELEVATIONS						
1/7/2021	1102.42	1147.03	1150.80	1124.66	1146.71	1152.76	1144.29
2/15/2021							
3/11/2021							
4/13/2021							
5/17/2021							
6/7/2021							
7/19/2021	1102.27	1146.63	1150.60	1124.25	1146.61	1152.71	1144.39
8/5/2021							
9/9/2021							
10/19/2021							
11/4/2021							
12/10/2021							
1/10/2022	1102.37	1146.73	1150.6	1124.46	1146.71	1152.71	1144.24
2/8/2022							
3/14/2022							
4/8/2022							
5/9/2022							
6/6/2022							
7/11/2022	1102.17	1146.63	1150.5	1124.24	1146.51	1152.61	1144.29
8/1/2022							
9/12/2022							
10/3/2022							
11/9/2022							
12/5/2022							
1/16/2023	1102.34	1146.63	1150.55	1124.31	1146.76	1152.72	1144.27
2/23/2023							
3/14/2023							
4/27/2023							
5/13/2023							
6/17/2023							
7/8/2023	1102.27	1146.68	1150.5	1124.21	1146.21	1152.66	1144.29
8/21/2023							
9/23							
10/23							
11/23							
12/11/2023							

			PAGE COUNTY LANDFILL					
	TABLE H2 - LEACHATE PIEZOMETER MEASUREMENTS - UNLINED AREAS							
	LPZ 1	LPZ 24	LPZ 25	LPZ 29	LPZ 33	LPZ 36	LPZ 38	
TOC ELV.	1122.27	1168.23	1167.80	1141.56	1166.21	1167.91	1164.89	
Depth	23.70	24.20	19.50	20.30	20.20	22.60	23.30	
		2.00			5.50	5.00		
Year	10/02	2010	10/02	10/02	2010	2010	10/02	
Old TOC Elv.								
New Depth	23.70	26.20	19.50	20.30	25.70	27.60	23.30	
New TOC Elv.	1122.27	1170.23	1167.80	1141.56	1171.71	1172.91	1164.89	
bottom Elv	1098.57	1144.03	1148.30	1121.26	1146.01	1145.31	1141.59	
DATE	LEACHATE ELEVATIONS							
1/24								
2/24								
3/24								
4/24								
5/24								
6/24								
7/24	1102.3	1146.63	1150.52	1124.26	1146.36	1142.7	1164.89	
8/24								
9/24								
10/24								
11/24								
12/24								
1/25								
2/25								
3/25								
4/25								
5/25								
6/25								
7/25	1122.27	1170.23	1167.8	1141.56	1171.71	1172.91	1164.89	
8/25								
9/25								
10/25								
11/25								
12/25								

PAGE COUNTY LANDFILL				
TABLE H3 - LEACHATE PIEZOMETER MEASUREMENTS - SUBTITLE D AREAS				
		LPZ 39	LPZ 41	LPZ 2
TOC ELV.		1120.04	1116.07	1113.50
Depth		18.92		11.00
Year		10/09	9/17	7/25
Old TOC Elv.		1111.04		
New Depth		18.92		
New TOC Elv.		1120.04	1117.60	1113.50
bottom Elv		1101.04	1106.00	1102.50
DATE				
1/2/2015		0.30		
2/6/2015		0.28		
3/4/2015		0.26		
4/8/2015		0.25		
5/5/2015		0.26		
6/2/2015		0.24		
7/1/2015		0.43		
8/4/2015		0.61		
9/3/2015		1.48		
10/6/2015		1.23		
11/4/2015		0.98		
12/3/2015		0.65		
1/4/2016		0.65	DNE	
2/1/2016		0.60	DNE	
3/1/2016		0.51	DNE	
4/1/2016		0.60	DNE	
5/2/2016		0.40	DNE	
6/3/2016		0.28	DNE	
7/8/2016		0.30	DNE	
8/16		0.32	DNE	
9/16		0.50	DNE	
10/16		0.39	0.20	
11/16		0.68	0.24	
12/16		0.79	0.28	
1/6/2017		0.80	0.40	
2/13/2017		0.70	0.10	
3/14/2017		0.75	0.10	
4/12/2017		0.65	-0.20	
5/15/2017		0.55	0.05	
6/12/2017		0.55	-0.05	
7/13/2017		0.50	0.10	
8/8/2017		0.50	0.05	
9/10/2017		0.60	0.10	
10/16/2017		0.55	0.25	
11/6/2017		0.60	0.15	
12/22/2017		0.65	0.25	

PAGE COUNTY LANDFILL				
TABLE H3 - LEACHATE PIEZOMETER MEASUREMENTS - SUBTITLE D AREAS				
		LPZ 39	LPZ 41	LPZ 2
TOC ELV.		1120.04	1116.07	1113.50
Depth		18.92		11.00
Year		10/09	9/17	7/25
Old TOC Elv.		1111.04		
New Depth		18.92		
New TOC Elv.		1120.04	1117.60	1113.50
bottom Elv		1101.04	1106.00	1102.50
DATE				
1/10/2018		0.60	0.25	
2/5/2018		0.70	0.20	
3/19/2018		0.60	0.20	
4/5/2018		0.60	0.15	
5/2/2018		0.55	0.20	
6/15/2018		0.60	0.25	
7/6/2018		0.60	0.15	
8/29/2018		0.60	0.15	
9/10/2018		0.55	0.10	
10/15/2018		0.50	0.15	
11/9/2018		0.55	0.20	
12/18/2018		0.55	0.20	
1/7/2019		0.20	0.20	
2/4/2019		0.30	0.30	
3/12/2019		0.30	0.20	
4/8/2019		0.35	0.05	
5/14/2019		0.30	0.00	
6/6/2019		0.50	0.00	
7/17/2019		0.20	0.10	
8/8/2019		0.20	-0.10	
9/11/2019		0.30	0.10	
10/1/2019		0.25	0.20	
11/8/2019		0.30	0.05	
12/21/2019		0.30	0.10	
1/20/2020		0.00	0.10	
2/5/2020		0.31	0.20	
3/16/2020		0.29	0.10	
4/23/2020		0.30	0.10	
5/6/2020		0.30	0.00	
6/15/2020		0.40	-0.10	
7/9/2020		-0.15	-0.10	
8/23/2020		0.10	-0.10	
9/13/2020		0.10	-0.05	
10/6/2020		0.20	-0.10	
11/4/2020		0.20	-0.10	
12/18/2020		0.15	-0.10	

PAGE COUNTY LANDFILL					
TABLE H3 - LEACHATE PIEZOMETER MEASUREMENTS - SUBTITLE D AREAS					
		LPZ 39	LPZ 41	LPZ 2	
	TOC ELV.	1120.04	1116.07	1113.50	
	Depth	18.92		11.00	
	Year	10/09	9/17	7/25	
	Old TOC Elv.	1111.04			
	New Depth	18.92			
	New TOC Elv.	1120.04	1117.60	1113.50	
	bottom Elv	1101.04	1106.00	1102.50	
	DATE				
	1/7/2021	0.15	0.18		
	2/15/2021	0.25	0.15		
	3/11/2021	0.25	0.20		
	4/13/2021	0.30	0.05		
	5/17/2021	0.20	0.05		
	6/7/2021	0.20	0.00		
	7/19/2021	0.00	0.05		
	8/5/2021	0.00	0.00		
	9/9/2021	0.10	0.05		
	10/19/2021	0.20	0.10		
	11/4/2021	0.20	0.00		
	12/10/2021	0.18	0.05		
	1/10/2022	0.00	0.19		
	2/8/2022	0.30	0.10		
	3/14/2022	0.25	0.10		
	4/8/2022	0.40	0.00		
	5/9/2022	0.25	-0.03		
	6/6/2022	0.20	-0.05		
	7/11/2022	-0.10	-0.10		
	8/1/2022	0.05	-0.01		
	9/12/2022	0.15	0.00		
	10/3/2022	0.25	0.05		
	11/9/2022	0.19	-0.05		
	12/5/2022	0.20	0.00		
	1/16/2023	0.05	0.12		
	2/23/2023	0.06	0.10		
	3/14/2023	0.05	0.05		
	4/27/2023	0.00	0.00		
	5/13/2023	0.20	0.00		
	6/17/2023	0.20	-0.05		
	7/8/2023	0.05	-0.15		
	8/21/2023	0.15	-0.03		
	9/23	0.05	-0.02		
	10/23	0.20	-0.03		
	11/23	0.09	-0.03		
	12/11/2023	0.13	-0.03		

PAGE COUNTY LANDFILL					
TABLE H3 - LEACHATE PIEZOMETER MEASUREMENTS - SUBTITLE D AREAS					
		LPZ 39	LPZ 41	LPZ 2	
	TOC ELV.	1120.04	1116.07	1113.50	
	Depth	18.92		11.00	
	Year	10/09	9/17	7/25	
	Old TOC Elv.	1111.04			
	New Depth	18.92			
	New TOC Elv.	1120.04	1117.60	1113.50	
	bottom Elv	1101.04	1106.00	1102.50	
	DATE				
	1/24	0.07	0.00	DNE	
	2/24	0.05	-0.03	DNE	
	3/24	0.05	-0.03	DNE	
	4/24	0.10	0.00	DNE	
	5/24	0.09	0.00	DNE	
	6/24	0.10	-0.02	DNE	
	7/24	0.10	-0.02	DNE	
	8/24	0.09	-0.01	DNE	
	9/24	0.09	-0.03	0.00	
	10/24	0.09	-0.03	0.00	
	11/24	0.10	-0.01	0.00	
	12/24	0.10	-0.01	0.00	
	1/25	0.09	-0.02	0.00	
	2/25	0.07	-0.02	0.00	
	3/25	0.07	-0.02	0.00	
	4/25	0.06	-0.03	0.00	
	5/25	0.07	-0.02	0.00	
	6/25	0.08	-0.01	0.00	
	7/25	0.08	-0.01	0.00	
	8/25	0.09	-0.02	0.00	
	9/25	0.10	-0.01	0.00	
	10/25	0.10	-0.01	0.00	
	11/25	0.10	0.00	0.00	
	12/25	0.10	0.00	0.00	