

2025 ANNUAL WATER QUALITY REPORT

**FOR THE
CASS COUNTY SANITARY LANDFILL
15-SDP-01-75C
ATLANTIC, IOWA**

**by:
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January, 2026



6055-24A.320

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Certification

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Date: 1-22-2026

Typed: Todd Whipple, CPG

Section 1.0 Background Information

1.1 Report Format

Table 1 through Table 13 are attached to this report and satisfy the IDNR requirement to provide the tables to meet the IDNR format requirements included in Special Provision 5.c. of the Permit, dated December 2, 2025 (Doc #114898).

1.2 Report Priority

Priority review of this document is not requested, as additional information will be submitted to the IDNR in the upcoming months.

A request for revision to the Hydrologic Monitoring System Plan (HMSP) will be filed with the IDNR in the upcoming months, based, in part, on the water quality information included herein. There are findings in this report that are considered to be artifacts of an insufficient background. The water table background was historically limited to data from a single well (MW-15R), while the Dakota Formation background was also historically limited to data from a single well (MW-22).

In 2025 the water table background database was augmented with data collected from MW-27, MW-28, MW-29, and MW-40. In 2025 the Dakota Formation background database was augmented with data collected from MW-41. IDNR approved improvement to the background data in the IDNR comment letter dated May 28, 2025 (Doc #113149). Significantly fewer statistically significant increases (SSI) were documented in 2025 than in previous years based on the preliminarily improved background.

Sampling in accordance with Table 1 and Table 2 is recommended in 2026 (until changes are proposed and approved) to comply with the current Permit requirements. It is recommended that detection, assessment, and corrective action monitoring continue in accordance with the HMSP as approved in Special Provision 5 of the Permit, dated December 2, 2025 (Doc #114898). Additionally, the Attenuation Zone Point of Compliance (AZPOC) Wells should also be sampled on a semi-annual basis.

1.3 Period of Report Coverage

Water quality data evaluation is based on a running compilation of data beginning in the Fall of 2016. Statistical evaluations herein are based on the most recent water quality data collected on October 27, 2025. Data collected prior to October 14, 2024, was evaluated by others, most recently in the 2023 Annual Water Quality Report dated February 28, 2024 (Doc #109365) and in the 2024 Semi-Annual Water Quality Notification dated September 27, 2024 (Doc #110964).

1.4 Current Site Maps

Figure 1 is attached illustrating the current site and property boundaries. Figure 2 is a groundwater contour map of the unconsolidated till formations, and Figure 3 is a Potentiometric Groundwater Surface Contour Map for the confined Dakota Bedrock Formation.

1.5 Site Status and Applicable Rules

Site Location

The Cass County Sanitary Landfill is located in SE1/4 Section 13, T76N, R36W and SW1/4 of Section 18, T76N, R35W, Cass County, Iowa. The facility is situated on a public highway (65928 Jackson Road) southeast of Atlantic, Iowa. The facility operates under the Iowa Department of Natural Resources (IDNR) Permit Number 15-SDP-01-75C.

Landfill Layout

The site is situated in the uplands above a creek bounding the north side of the site. The site demonstrates approximately 120 feet of elevation relief across the site. The site was closed in 2023.

As stated in the 1991 HIR:

Surface soils within the landfill area are derived from windblown loess, glacial till and alluvium. The surface soils at the site are described as loam, silty loam and clay loam. Glacial till is the parent material of 17.5 percent, Peorian Loess is the parent material of 23.0 percent, and Alluvium is the parent material of 26.5 percent of the surface soils located within the property boundary of the landfill. Geologic cross sections within the area indicate that a loess mantle approximately 20 feet thick caps the ridges on the site. Underneath the loess, a brown, sandy, silty clay glacial till is present with a maximum thickness of approximately 100 feet. Underlying the glacial till is an alluvial sand which was probably deposited directly on top of the bedrock. In the lowlands, a black silty sand alluvium, with an approximate thickness of 20 feet, is located on top of the alluvial sand, which was deposited on the bedrock surface.

The Cretaceous Dakota Formation represents the uppermost bedrock unit within the landfill area. The Dakota Formation is present in Southwest Iowa as erosional remnants forming the cap of buried bedrock ridges. The Dakota Formation generally consists of two members: the Woodbury Member and the Nishnabotna Member, with the latter being situated stratigraphically lower. Depth to bedrock ranges from 34 feet in the lowland areas to 134 feet in the upland areas.

Applicable Rules

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

1.6 Summary of Hydrologic Monitoring System Plan (HMSP)

The HMSP sampling performed October 27, 2025 conforms to the Permit Provisions.

Water monitoring points are illustrated in Figure 1. Water Contour Maps are included as Figures 2 and Figure 3. The current HMSP is summarized in Table 1. The HMSP Implementation Schedule for 2026 is itemized in Table 2.

MONITORING WELL MAINTENANCE PERFORMANCE REEVALUATION

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

High & Low Water Levels

Current water elevation data is included on Table 4. Historic water elevation data is included in Table 4A. Water Contour Maps (Figure 2 and Figure 3) dated October 2025 are included with this report. The Water Contour Maps illustrate the water surfaces in the formations of interest at this site. Review of the 2025 data does not indicate excessive variability compared to historic water elevation data.

Well Depth & Sedimentation

Well depth measurements were made October 27, 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 originally measured horizontal hydraulic conductivity testing results for existing site monitoring wells is included on Appendix A. Horizontal hydraulic conductivities ranged between 10^{-2} cm/sec and 10^{-6} cm/sec.

Field pumped flow rates for the low flow sampling recorded for May 29, 2024 (on Table 4) indicates that the monitoring wells yield water in volumes generally in the same order of magnitude as the rates reported in 2015. Well production 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 table and the potentiometric water surface of the Dakota Formation across the site, the conclusions of the well recharge evaluation, and the existing water elevation database, it appears that the semi-annual water elevation data is sufficient to adequately monitor the hydrologic condition of the site. It appears that the integrity of monitoring wells is intact, that the wells are appropriately located to detect impact from the fill.

Waste Separation from Groundwater

Groundwater underdrains include UD-0 and UD-1. UD-0 is the underdrain located below the lagoon. UD-1 is an underdrain below the edge of fill along the south side of the landfill.

Groundwater elevation measurement point GPZ-1 is located at the southwest corner of the waste mass and is utilized to monitor the separation of the waste from the water table in accordance with Special Provision X.5 of the December 2, 2025 (Doc #114898).

On April 16, 2025, GPZ-1 was obstructed and the April reading could not be made. GPZ-1 was repaired during the summer of 2025. The October 27, 2025, measurements of GPZ-1 demonstrated GPZ-1 to be dry 13.2 feet below the top of casing. The dry condition of the piezometer demonstrates sufficient separation between the waste and the water table. A semi-annual frequency of monitoring GPZ-1 is planned for 2026.

Section 2.0 Reporting Period Monitoring Activities

A summary of the planned 2026 sample collection events at each monitoring point is included in Table 2. Field sampling data related to the April 16, 2025 and the October 27, 2025 sampling episodes are included on the field forms (IDNR Form 542-1322) in Appendix B.

A comprehensive summary of Analytical Data for the April 16, 2025 and the October 27, 2025 sampling episodes is included in Table 9.

Per the Permit dated December 2, 2025 (Doc #114898) the HMSP includes the following:

Glacial Till System

Background Point: *MW-15R (augmented with data from MW-27, MW-28, MW-29, and MW-40 in 2025).*

Downgradient Point of Compliance (POC) Wells: MW-12, MW-19, MW-20, MW-21, MW-37R, MW-38R, and MW-39.

Downgradient Attenuation Zone (AZPOC*) points MW-24 (related to MW-20) and MW-43 (related to MW-12)

Groundwater Underdrain Points UD-0 (lagoon), UD-1 (south side of fill area).

** AZPPOC wells are not included in Special Provision X.5.a of the Permit.*

Dakota Bedrock Formation

Background Point: MW-22 (*augmented with data from MW-41 in 2025*).

Downgradient POC: MW-11, MW-23, and MW-36

Downgradient Attenuation Zone (AZPOC*) point: MW-13 (related to MW-12)

** AZPPOC wells are not included in Special Provision X.5.a of the Permit.*

2.1 Current Detection Monitoring Activities/Sampling Requirements

Till System - Background well is MW-15R, which is included in the detection monitoring system. The other monitoring points that currently remain in the detection monitoring are limited to UD-0 and UD-1.

Dakota Bedrock System - Background well is MW-22, which is included in the detection monitoring system.

2.2 Current Assessment Monitoring Activities

Till System – MW-19, MW-21, MW-37R, MW-38R, and MW-39 are included in the assessment monitoring system.

Dakota Bedrock System - MW-11, MW-23, and MW-36 are included in the assessment monitoring system.

2.3 Current Corrective Action Activities

MW-12 and MW-20 are Supplemental wells within the originally defined “plumes” that are included in the Corrective Action Monitoring System. MW-12 has AZPOC Wells MW-43 (horizontal) and MW-13 (vertical) established. MW-20 has AZPOC Well MW-24 (horizontal) established.

2.4 Passive Engineered Conveyance Structure (PECS)

Currently there are no Passive Engineered Conveyance Structure (PECS) constructed on site.

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 Cass County Landfill, First Semi-Annual Monitoring Event in 2025, dated July of 2025 is included in Appendix C.1. The Groundwater Statistics Report for the Cass County Landfill, Second Semi-Annual Monitoring Event in 2025, dated December of 2025 is included in Appendix C.2.

The Analytical Reports for the laboratory testing of the April 16, 2025 and the October 27, 2025 sampling episode is included in Appendix D.

QUALITY ASSURANCE/QUALITY CONTROL

A blind duplicate sample was collected at MW-11 during the April 16, 2025 sampling episode. A blind duplicate sample was collected at MW-41 during the October 27, 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 the 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) A result is non-detected.

The results of the blind duplicate and the monitoring well results 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 # 80703). A TSS and Field Turbidity Evaluation Report was prepared and submitted on November 21, 2024 (Doc# 111357). The report requested use of field measured turbidity rather than laboratory tested TSS. IDNR response is pending, however, a correlation has been established between turbidity and TSS

“Low-Flow” Sampling methods were employed beginning in 2015. “No-Purge” Sampling methods were employed at this site beginning October 14, 2024. The background data for sample collection episodes are tested for outliers. All outliers are removed from the background. A summary table of field measured turbidity is included in Appendix E.

Upgradient Data, Table 1, Attachment B (shallow groundwater); Upgradient Data and Table 1, Attachment C (bedrock groundwater) included in the December 2025 Statistical Evaluation Report (Appendix C.2) includes a summary of the current background data. The site prediction limits established in the 2025 Fall Statistical Evaluation Report (Appendix C.2) is based on the validated background. The calculated Site Prediction Limits are in Table 5 (Interwell) and the calculated Control Limits are in Table 5A (Intrawell).

SITE SPECIFIC GWPS

Table 5 includes the comparison of the interwell site prediction limits to the published IAC 567, Chapter 137 Statewide Standard. The instances where the Prediction Limit exceeds the published IAC 567, Chapter 137 Statewide Standards are highlighted in yellow in Table 5.

Previously, the 2024 Semi-Annual Water Quality Notification (Doc #110964) reestablished Site-Specific GWPS for **cobalt** in both the Till System (**49.62 ug/L**) and in The Dakota Formation (**3.981 ug/L**). The Site-Specific GWPS for cobalt are utilized herein which also exceed the published IAC 567, Chapter 137 Statewide Standard. The Site-Specific GWPS are included on Table 7.

Till System

<u>Compound</u>	<u>Prediction Limit</u>	<u>IAC 137 GWPS</u>	<u>Site-Specific GWPS</u>
Arsenic	19.7 ug/L	10.0 ug/L	19.7 ug/L
Cobalt	7.9 ug/L	2.1 ug/L	49.62 ug/L

Dakota System

<u>Compound</u>	<u>Prediction Limit</u>	<u>IAC 137 GWPS</u>	<u>Site-Specific GWPS</u>
Antimony	6.6 ug/L	6.0 ug/L	6.6 ug/L
Cobalt	1.73 ug/L	2.1 ug/L	3.981 ug/L

Table 5A includes the comparison of the intrawell control limits for each monitoring point to the published IAC 567, Chapter 137 Statewide Standard. Note that one or more compounds at each well yields a control limit that exceeds the published IAC 567, Chapter 137 Statewide Standard. Further, the control limits for any given compound varies greatly between wells, supporting the interpretation that spatial variability in formation water is real at the site and is not captured by interwell statistical methods when only a single background well is utilized.

SUPPLEMENTAL WELL EVALUATION

Supplemental Wells MW-12 and MW-20 are not evaluated statistically. Time series trend analyses are evaluated at MW-12 and MW-20 to observe changes in water quality over time.

Time Series plots illustrate the trends in Supplemental Wells MW-12 and MW-20 and are included in Appendix F.

STATISTICALLY SIGNIFICANT INCREASE (SSI) EVALUATION

The water quality is evaluated by both Interwell and Intrawell methods. The basis for adding Intrawell statistical evaluations is twofold. First, it is recognized that the interwell background established using a single monitoring well is not a representative of the natural variability of formation waters across the site. Additional background data should be included for interwell evaluations or intrawell evaluations should be utilized in lieu of interwell methods.

Second, it is also recognized that the comparison of water collected from underdrain systems are not readily comparable to a background prediction limit (interwell) established from groundwater monitoring wells that are far removed from the waste mass.

Table 7 has been modified in order to summarize compound concentrations relative to both the interwell prediction limits and the intrawell control limits. In instances where the compound concentrations exceed the interwell prediction limits the value is highlighted in blue. In instances where the compound concentrations exceed the intrawell Control limits the value is highlighted in purple.

Interwell Methods

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

In assessment monitoring wells, the exceedances are not required to be reported as SSI.

Table 6 is a summary of all compounds at site monitoring wells that have exceeded a *current* prediction limit in 2025. Table 7 includes highlighted (blue) values that signify detected concentrations that exceeded the prediction limits (SSI) over time at the assessment monitoring wells.

Intrawell Methods

The detected concentrations of each compound are compared to the Control Limit for each respective compound calculated from background data points in the dataset. In detection monitoring wells, a detected concentration for a compound that is in excess of the calculated Control limit is recorded as a Statistically Significant Increase (SSI).

In assessment monitoring wells, the exceedances are not required to be reported as SSI.

Table 6A is a summary of all compounds at site monitoring wells that have exceeded a *current* Control limit in 2025. Table 7 includes highlighted (purple) values that signify detected concentrations that exceeded the prediction limits (SSI) over time at the assessment monitoring wells.

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

ASSESSMENT MONITORING SUMMARY

Assessment monitoring is required to be repeated annually per IAC 567-113.10(6)b. However, a five (5) year full Appendix II sampling frequency is utilized where at least two (2) full Appendix II samples have been collected.

Full rounds of Appendix II assessment monitoring are current at all monitoring wells as warranted. Table 2 summarizes the dates of the Appendix II sampling events at assessment monitoring wells since 2009.

Appendix II detections (beyond the Appendix I list) have **not** been detected above laboratory method detection limits, with the following exceptions:

MW-19 (Assessment) - sulfide, gamma-chlordane

MW-20 (Supplemental) sulfide, Endosulfan I

MW-21 (Assessment) - sulfide

The summary of assessment monitoring detections to date is presented in Appendix G. The full Appendix II sampling episodes are highlighted in green on the tables in Appendix G.

STATISTICALLY SIGNIFICANT LEVEL (SSL) EVALUATION

The compounds with detections that exceed site prediction limits and/or intrawell Control limits (see summary in Table 1) 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. A 95% LCL value that exceeds an applicable GWPS is recorded as an SSL.

The exception to this procedure is related to selenium at MW-39. The June 2020 ACM Report (Doc#97998) indicates that the selenium concentrations at MW-39 are not landfill related. This interpretation was approved by IDNR on September 21, 2020 (Doc #98498).

The SSL Evaluation is based on data for each downgradient monitoring well. 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 95% LCL values at assessment/corrective action monitoring wells are below the applicable Site Specific GWPS or Statewide Standards published in IAC 567, Chapter 137, except at MW-11 where the 95% LCL for cobalt historically exceeded the Site-Specific GWPS (highlighted in orange). Since implementation of no-purge sampling (starting September 2024) the 95% LCL values have remained below the approved Site Specific GWPS of 3.981 ug/L.

MW-12 and MW-20 (Supplemental Wells) historically demonstrated SSL for arsenic, and arsenic and barium, in each respective well. The apparent SSL for arsenic at MW-20 (Table 7) is not applicable to supplemental source wells documented to be positioned within the plume of impact.

Although the current water quality results (based on the current GWPS) do not indicate SSL beyond the arsenic at MW-12 and MW-20, additional evaluation of several factors are still warranted. It is recognized that the following items need to be comprehensively addressed:

- 1) The site background requires improvement and site-wide GWPS for arsenic and cobalt need to be confirmed using a sound background data pool.
- 2) Statistical evaluation methods need to be expanded to include Intrawell Statistical methods as a supplemental means to accommodate spatial variability of water quality at the site.
- 3) Whether the Dakota Formation warrants inclusion in the HMSP.

ASSESSMENT OF CORRECTIVE MEASURES

The Assessment of Corrective Measures (ACM) report related to MW-12, MW-20, and MW-39 was submitted to IDNR on June 30, 2020 (Doc #97998). The ACM Report was approved by IDNR (Doc #98498).

Natural Monitored Attenuation remedy has been applied to MW-12 and MW-20.

CORRECTIVE ACTION MONITORING & EVALUATIONS

The arsenic SSL at MW-12 is evaluated at AZPOC monitoring wells MW-13 and MW-43. Both AZPOC wells demonstrate that the remedy is complete at MW-13 and MW-43.

The arsenic and barium SSL at MW-20 is evaluated at AZPOC monitoring wells MW-24. The AZPOC well demonstrates that the remedy is complete at MW-24.

Section 4.0 Leachate Collection System Performance Evaluation

Between January 1, 2025, and December 31, 2025, staff reported that no leachate was hauled to the City of Atlantic POTW.

The facility has an Authorization to Discharge leachate at the Atlantic POTW and/or the Corning POTW according to the treatment agreement included in the Atlantic NPDES Permit (Appendix H.1) and the Corning NPDES Permit (Appendix H.2).

The leachate testing performed in 2025 is included in Appendix H.3.

Leachate head piezometers are constructed in the original landfill (PZ-1R, PZ-2, PZ-3R, PZ-4, and PZ-5R) and in RCRA Subtitle D Expansion Phases 0-2 (LPZ-0, LPZ-1, and LPZ-2). Monthly measurements at LPZ-0, LPZ-1, and LPZ-2 are required. Quarterly measurements at PZ-1R, PZ-2, PZ-3R, PZ-4, and PZ-5R are required. The LPZ measurements for 2025 are included in Table 12, while the measurements over time are summarized in Table 12A. Note that several measurements during 2025 were either not conducted or could not be located to the transition between Directors.

Review of the 2025 data indicates that all recorded measurements were less than 12 inches in the RCRA Subtitle D Expansion Phases 0-2. There are no leachate level restrictions applied to unlined landfill cells in the original landfill.

LPZ-2 (in Phase 2) was recorded as damaged in the 2024 AWQR. This point was repaired in October, 2025 and measurements resumed.

Leachate Storage System

Leachate collected at the site is stored in the Subtitle D composite lined leachate storage lagoon. The lagoon has a capacity of approximately 628,888 gallons.

Leachate Line Cleaning

The leachate gravity collection and conveyance lines in the landfill were cleaned in May 28, 2024. As per IDNR regulations, the lines should be cleaned every 3 years (next cleaning will be scheduled for 2027).

Section 5.0 Gas Monitoring

A Summary table of gas monitoring is as Table 13.

Quarterly explosive gas monitoring is required per 113.9(2). Note that first quarter, second quarter, and third quarter measurements during 2025 were either not conducted or could not be located to the transition between Directors.

Explosive gas concentrations are recorded as percent lower explosive limit (% LEL) and were undetected or below action levels at all points during the fourth quarter monitoring.

Section 6.0 Recommendations

Sampling in accordance with Table 2 is recommended. It is recommended that detection, assessment, and corrective action monitoring continue in accordance with the approved HMSP, unless changes to the HMSP are approved.

We intend to submit a revised HMSP in the first calendar quarter of 2026 to further address the following items:

- 1) The site background requires improvement and site-wide GWPS for arsenic and cobalt needs to be established based on a sound background data pool.
- 2) Statistical evaluation methods need to be expanded to include Intrawell Statistical methods as spatial variability of water quality is not currently accommodated in the HMSP and the interwell statistical evaluation methods.
- 3) Determine whether the Dakota Formation warrants inclusion in the HMSP and how the HMSP can be modified to best utilized efficiencies allowed by converging flow patterns to the north.

Approval of Intrawell Statistical Evaluations of water quality at the underdrain sampling points UD-0 and UD-1 is desired. Note that UD-0 and UD-1 are frequently recorded as dry. At the present time, there are only three (3) water quality samples collected to date at either point.

A TSS and Field Turbidity Evaluation Report was prepared and submitted on November 21, 2024 (Doc# 111357). We request IDNR response/approval of the correlation proposed.

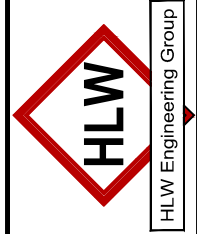
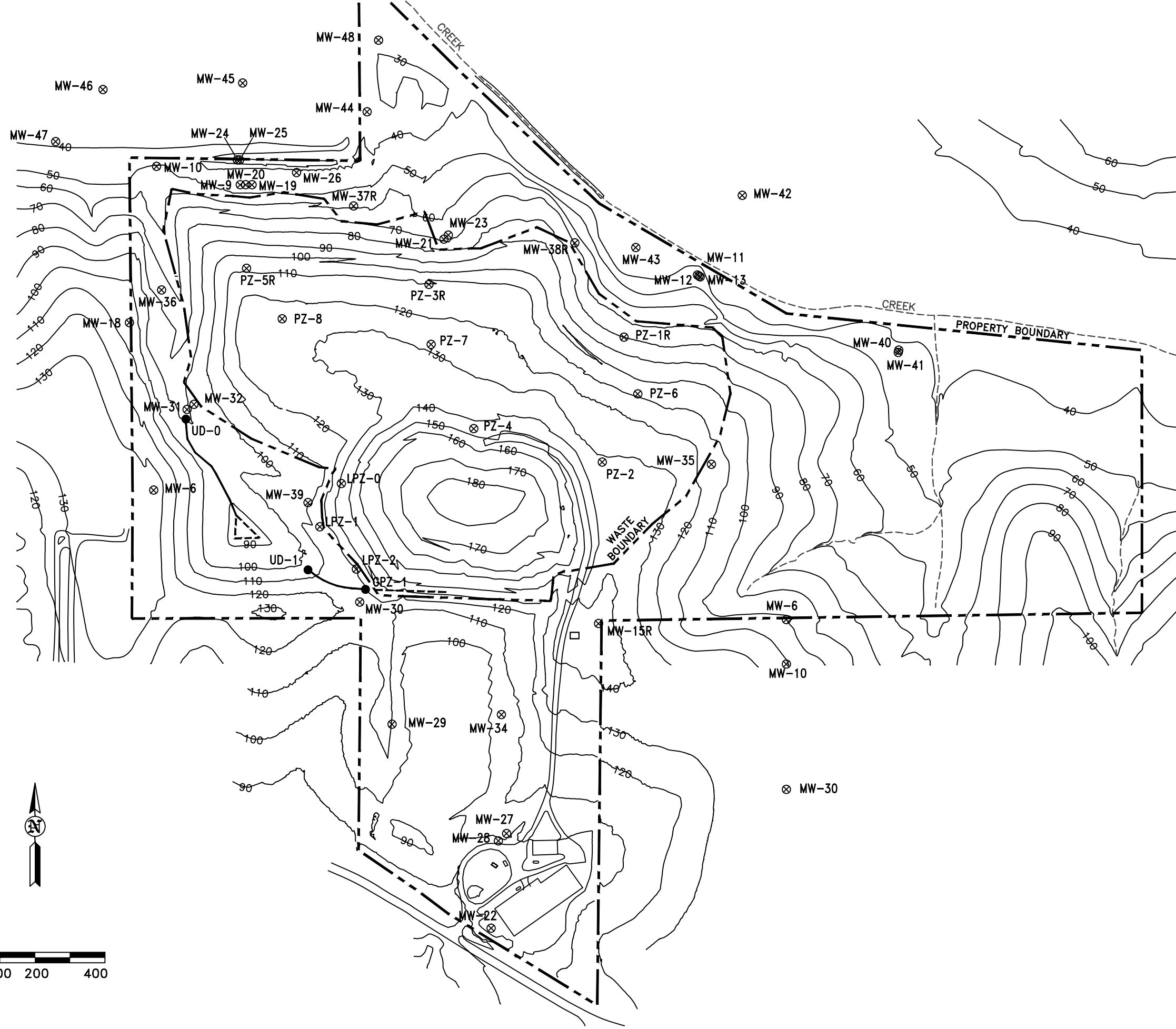
Resume monthly leachate head measurements at LPZ-0, LPZ-1, and LPZ-2.

Resume quarterly leachate head measurements at PZ-1R, PZ-2, PZ-3R, PZ-4, and PZ-5R.

Resume quarterly explosive gas monitoring.

Figures

0 100 200 400



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SITE PLAN
CASS COUNTY SANITARY LANDFILL
ATLANTIC, IOWA

FIGURE: 1		NO.	DATE
REVISION	DRAWN	PROJECT NO.	DATE
	DRA	6055	1-1-26

0 100 200 400

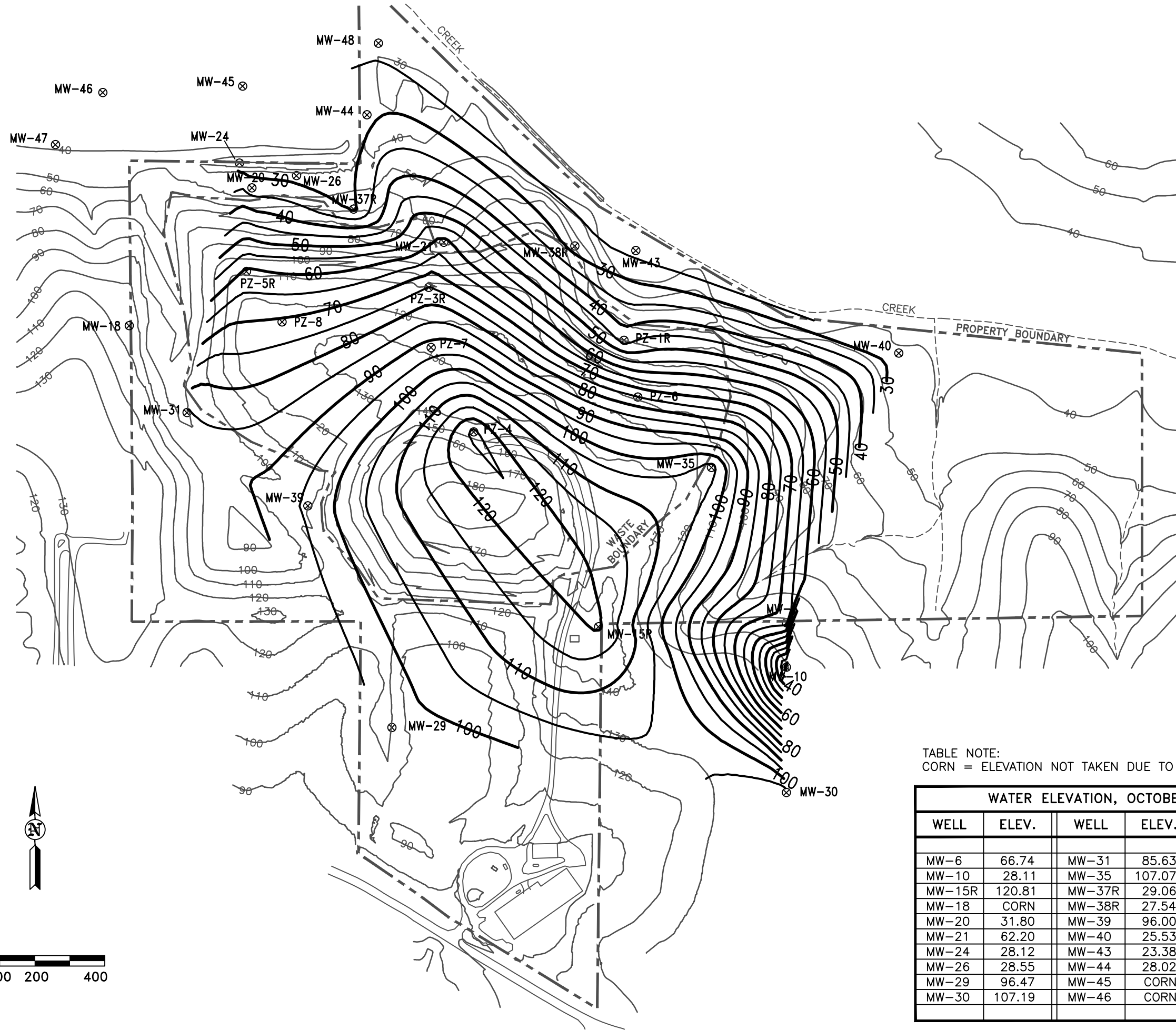


TABLE NOTE:
CORN = ELEVATION NOT TAKEN DUE TO CORN IN THE FIELD.

WATER ELEVATION, OCTOBER 27, 2025					
WELL	ELEV.	WELL	ELEV.	WELL	ELEV.
MW-6	66.74	MW-31	85.63	MW-47	CORN
MW-10	28.11	MW-35	107.07	MW-48	24.10
MW-15R	120.81	MW-37R	29.06	PZ-1R	42.88
MW-18	CORN	MW-38R	27.54	PZ-3R	75.20
MW-20	31.80	MW-39	96.00	PZ-4	126.30
MW-21	62.20	MW-40	25.53	PZ-5R	61.23
MW-24	28.12	MW-43	23.38	PZ-6	NA
MW-26	28.55	MW-44	28.02	PZ-7	NA
MW-29	96.47	MW-45	CORN	PZ-8	NA
MW-30	107.19	MW-46	CORN		

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GROUNDWATER CONTOURS
WATER TABLE
CASS COUNTY SANITARY LANDFILL
ATLANTIC, IOWA

REVISION		NO.	DATE
DRAWN	DRA	PROJECT NO. 6055	DATE 1-1-26

FIGURE: 2

0 100 200 400

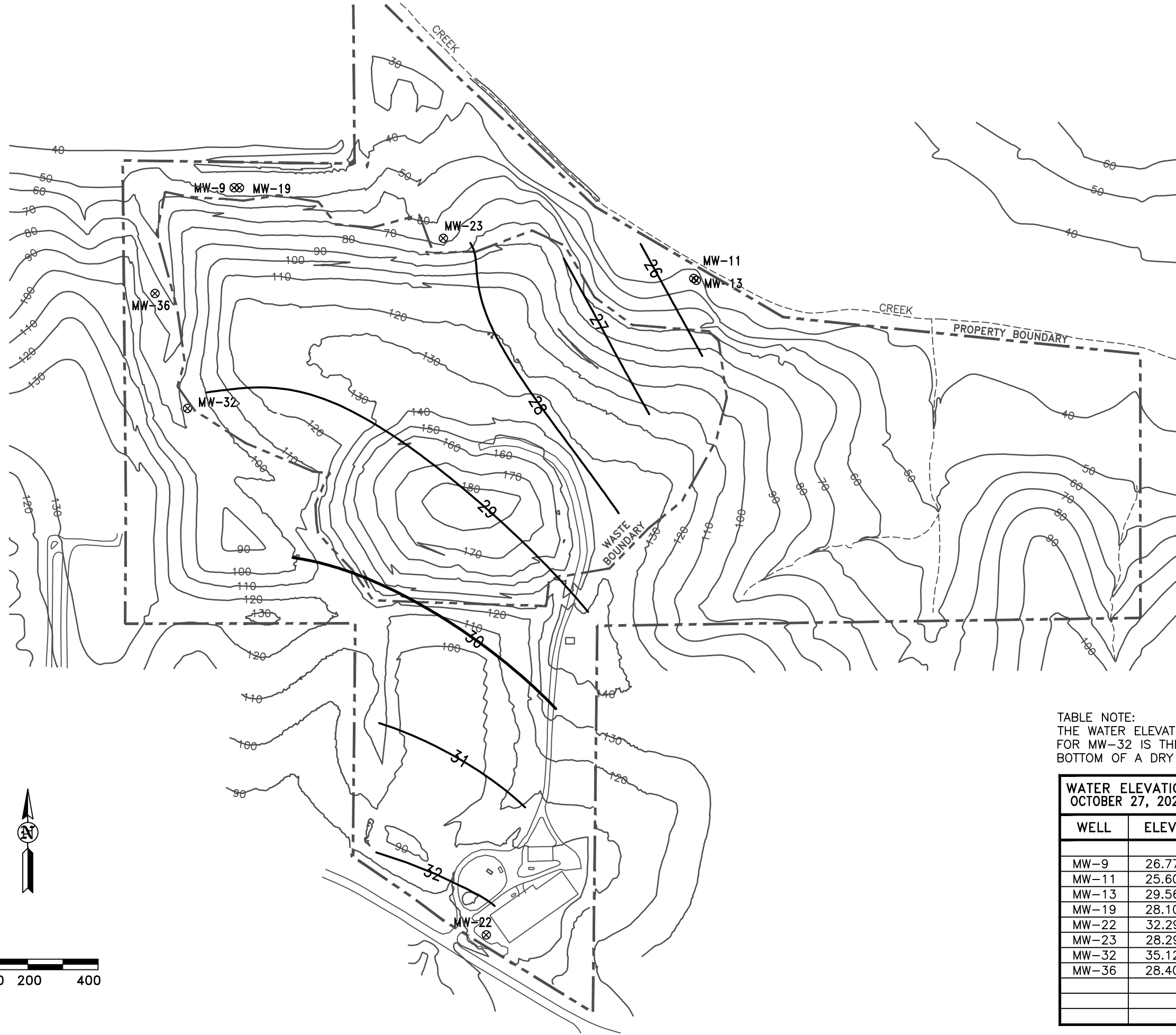


TABLE NOTE:
THE WATER ELEVATION
FOR MW-32 IS THE
BOTTOM OF A DRY WELL.

WATER ELEVATION OCTOBER 27, 2025	
WELL	ELEV.
MW-9	26.77
MW-11	25.60
MW-13	29.56
MW-19	28.10
MW-22	32.29
MW-23	28.29
MW-32	35.12
MW-36	28.40

GROUNDWATER CONTOURS
DAKOTA SANDSTONE
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FIGURE: 3		NO.	DATE
REVISION	DRAWN	PROJECT NO.	DATE
	DRA	6055	1-1-26

Tables

(in IDNR Format)

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Table 4A – Summary of Water Elevations Over Time

Table 5 – Background Prediction Limits and GWPS Summary (Interwell Statistics)

Table 5A – Background Control Limits and GWPS Summary (Intrawell Statistics)

Table 6 – Summary of Detections Exceeding Prediction Limits (Interwell Statistics)

Table 6A – Summary of Detections Exceeding Control Limits (Intrawell Statistics)

Table 7 – Summary of Ongoing and Newly Identified SSI

Table 8 - Summary of Ongoing and Newly Identified SS - **(Not Required)**

Table 9 – Analytical Data Summary

Table 10 – Historic SSI and SSL - **(Not Required)**

Table 11 – Corrective Action Trend Analysis - **(Not Required)**

Table 12 – Leachate Levels 2024

Table 12A – Leachate Levels Historic

Table 13 – Gas Monitoring Summary

Table 1 – Monitoring Program Summary

Table 1
Monitoring Program Summary
Annual Water Quality Report
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Monitoring Well	Formation	Current Monitoring Program	Change for next sampling event	Interwell Methods - Constituents w/ SSI	Intrawell Methods - Constituents w/ SSI	Constituents w/ SSL	Total # of Samples in each monitoring program since October 28, 2014		
							Detection	Assessment	Corrective Action
MW-15R	Till	Background	NC	None	None	None	34	0	0
MW-12	Alluvium	Supplemental	NC	None	None	Not Applicable	0	0	18
MW-19	Alluvium	Assessment	NC	Ba, Co, Ni, chlorobenzene	chlorobenzene	Cobalt ⁽³⁾	0	41	0
MW-20	Alluvium	Supplemental	NC	As, Ba, Ni, 1,4-dichlorobenzene, benzene, chlorobenzene	1,4-dichlorobenzene, benzene, chlorobenzene	Not Applicable	0	0	36
MW-21	Till	Assessment	NC	Ba, Co, Ni	None	None	0	36	0
MW-24	Till	AZPOC to MW-20	NC	Ba, Ni	None	None	0	25	0
MW-37R	Till	Assessment	NC	Ba, Se	None	None	0	17	0
MW-38R	Till	Assessment	NC	Se	Vanadium	None	0	17	0
MW-39	Till	Assessment	NC	Se ⁽¹⁾	None	None ⁽¹⁾	0	38	0
MW-43	Till	AZPOC to MW-12 (horizontal)	NC	Ni	None	None	0	15	0
UD-0	Underdrain	Detection	NC	None ⁽²⁾	None ⁽²⁾	None	7	0	0
UD-1	Underdrain	Detection	NC	None ⁽²⁾	None ⁽²⁾	None	1	0	0
MW-22	Dakota Formation	Background	NC	None	None	None	38	0	0
MW-11	Dakota Formation	Assessment	NC	As, Ba, Co, Cu, Zn	Copper	Cobalt ⁽³⁾	0	40	0
MW-23	Dakota Formation	Assessment	NC	None	None	None	0	40	0
MW-36	Dakota Formation	Assessment	NC	Cr, Co, Ni	None	None	0	40	0
MW-13	Dakota Formation	AZPOC to MW-12 (vertical)	NC	None	None	None	0	0	3
MW-6	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-10	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-18	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-26	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-29	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-30	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-31	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-32	Dakota Formation	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-35	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-40	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-41	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-42	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-44	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-45	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-46	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-47	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A
MW-48	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A	N/A

⁽¹⁾ Selenium is not attributed to landfill impact based on Doc #97998, ACM Report dated June 2020.

⁽²⁾ Insufficient data is available to evaluate from the dry underdrains

⁽³⁾ The SSL is considered tentative at this time. Further evaluations are required prior to final designation of a cobalt SSL at MW-11 and MW-19.

Table 2 – Monitoring Program Implementation Schedule

Table 2
Monitoring Program Implementation Schedule
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Monitoring Well	Recent Sampling Dates and Constituents	Upcoming Sampling Dates and Constituents		Full Appendix II Sample Dates	
		April, 2026	October, 2026	Previously Collected	Next Event
MW-15R		Appendix I	Appendix I		N/A
MW-12	See Table 2A	Appendix I	Appendix I	8/21/09, 8/31/10, 3/28/16, 5/6/21	N/A
MW-19		Appendix I	Appendix I	7/7/11, 10/9/12, 3/27/17, 4/6/22	2027
MW-20		Appendix I	Appendix I	8/21/09, 8/31/10, 10/27/11, 2/15/16, 5/6/21	N/A
MW-21		Appendix I	Appendix I	7/7/11, 10/9/12, 3/27/17, 4/7/22	2027
MW-24		Appendix I	Appendix I	9/29/22, 3/9/23	2028
MW-37R		Appendix I	Appendix I	3/30/20, 11/17/20, 11/27/25	2030
MW-38R	note: MW-38R was too dry on 10/27/25 for Appendix II Sample	Appendix II	Appendix I	3/30/20, 11/17/20	2025*
MW-39		Appendix I	Appendix I	7/7/11, 10/9/12, 3/27/17, 4/8/22	2027
MW-43		Appendix I	Appendix I	8/23/2022	N/A
UD-0		Appendix I	Appendix I		N/A
UD-1		Appendix I	Appendix I		N/A
MW-22		Appendix I	Appendix I		N/A
MW-11		Appendix II	Appendix I	8/21/09, 8/31/10, 10/27/11, 2/15/16, 5/6/21	2026
MW-23		Appendix I	Appendix I	7/7/11, 10/9/12, 3/27/17, 4/7/22	2027
MW-36		Appendix I	Appendix I	7/7/11, 10/9/12, 3/27/17, 4/7/22	2027
MW-13		Appendix I	Appendix I		N/A

*note: MW-38R was too dry on 10/27/25 for Appendix II Sample

Table 3 – Monitoring Well Maintenance Performance Reevaluation Schedule

Table 3
Monitoring Well Maintenance and Performance Revaluation Schedule
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Compliance with:	Monitoring Calendar Years									
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
567 IAC 113.10(2)"f"(1) high and low water levels (biennial)	X	X	X	X	X	P	P	P	P	P
567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths (historic = 1 per 5 years; current = biennial)	X	X	X	X	X	P	P	P	P	P
567 IAC 113.10(2)"f"(3) well depths (annual)	X	X	X	X	X	P	P	P	P	P
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry (biennial)		X		X		P		P		P
Waste separation from ground water 113.6(2)"l"	2X	2X	2X	2X	2X	2P	2P	2P	2P	2P

X = completed

P = Planned

Table 4 – Monitoring Well Maintenance Performance Reevaluation Summary

Table 4
Monitoring Well Performance and Maintenance Summary
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Well	Top of Casing	Top of Screen	Total Depth	Datum	Date of Measurements		Maximum Depth		Initial Flow Rate* (L/min)	Recent Flow Rate (L/min)	
					4/16/2025	10/27/2025				5/29/2024	% Change
MW-15R	145.46	118.9	37.1	Groundwater Level (ft)	27.56	24.65	0.0		0.125 7/29/2015	0.150	20%
				Groundwater Elevation (Ft MSL)	117.90	120.81					
				Measured Well Depth (ft)	37.1	37.1					
				Submerged screen	N	Y					
MW-12	44.43	34.6	19.9	Groundwater Level (ft)	19.90	19.90	0.0	dry	0.125 7/29/2015	dry	NA
				Groundwater Elevation (Ft MSL)	24.53	24.53					
				Measured Well Depth (ft)	19.9	19.9					
				Submerged screen	N	N					
MW-19	48.60	11.9	41.7	Groundwater Level (ft)	22.17	20.50	0.0		0.125 7/29/2015	0.142	13%
				Groundwater Elevation (Ft MSL)	26.43	28.10					
				Measured Well Depth (ft)	41.7	41.7					
				Submerged screen	Y	Y					
MW-20	48.51	31.8	26.7	Groundwater Level (ft)	16.00	16.71	0.0		0.150 7/29/2015	0.142	-6%
				Groundwater Elevation (Ft MSL)	32.51	31.80					
				Measured Well Depth (ft)	26.7	26.7					
				Submerged screen	Y	N					
MW-21	72.98	52.8	30.1	Groundwater Level (ft)	7.45	10.78	0.0		0.125 7/29/2015	0.158	27%
				Groundwater Elevation (Ft MSL)	65.53	62.20					
				Measured Well Depth (ft)	30.1	30.1					
				Submerged screen	Y	Y					
MW-24	44.60	22.6	32.0	Groundwater Level (ft)	18.30	16.48	0.0		0.125 7/29/2015	0.167	33%
				Groundwater Elevation (Ft MSL)	26.30	28.12					
				Measured Well Depth (ft)	32.0	32.0					
				Submerged screen	Y	Y					
MW-37R	62.91	30.5	43.6	Groundwater Level (ft)	35.53	33.85	0.0		0.158 11/26/2018	0.208	32%
				Groundwater Elevation (Ft MSL)	27.38	29.06					
				Measured Well Depth (ft)	43.6	43.6					
				Submerged screen	N	N					
MW-38R	74.19	34.6	50.6	Groundwater Level (ft)	47.80	46.65	0.0		0.158 11/26/2018	0.167	6%
				Groundwater Elevation (Ft MSL)	26.39	27.54					
				Measured Well Depth (ft)	50.6	50.6					
				Submerged screen	N	N					
MW-39	111.90	99.2	32.7	Groundwater Level (ft)	19.65	15.90	0.0		0.150 7/29/2015	0.175	17%
				Groundwater Elevation (Ft MSL)	92.25	96.00					
				Measured Well Depth (ft)	32.7	32.7					
				Submerged screen	N	N					
MW-43	41.54	27.9	23.6	Groundwater Level (ft)	19.40	18.16	0.0		0.300 7/29/2015	0.150	-50%
				Groundwater Elevation (Ft MSL)	22.14	23.38					
				Measured Well Depth (ft)	23.6	23.6					
				Submerged screen	N	N					
MW-22	93.30	-15.5	118.8	Groundwater Level (ft)	64.35	61.01	0.0		0.300 7/29/2015	0.208	-31%
				Groundwater Elevation (Ft MSL)	28.95	32.29					
				Measured Well Depth (ft)	118.8	118.8					
				Submerged screen	N	N					
MW-11	44.62	8.6	46.0	Groundwater Level (ft)	20.00	19.02	0.0		0.125 7/29/2015	0.167	33%
				Groundwater Elevation (Ft MSL)	24.62	25.60					
				Measured Well Depth (ft)	46.0	46.0					
				Submerged screen	Y	Y					
MW-23	69.01	16.8	62.2	Groundwater Level (ft)	42.12	40.72	0.0		0.300 7/29/2015	0.217	-28%
				Groundwater Elevation (Ft MSL)	26.89	28.29					
				Measured Well Depth (ft)	62.2	62.2					
				Submerged screen	Y	Y					
MW-36	72.22	29.7	62.8	Groundwater Level (ft)	44.67	43.82	0.0		0.300 7/29/2015	0.250	-17%
				Groundwater Elevation (Ft MSL)	27.55	28.40					
				Measured Well Depth (ft)	62.8	62.8					
				Submerged screen	N	Y					
MW-13	44.42	-35.70	90.95	Groundwater Level (ft)	17.25	14.86	0.0		0.300 7/29/2015	0.183	-39%
				Groundwater Elevation (Ft MSL)	27.17	29.56					
				Measured Well Depth (ft)	90.95	90.95					
				Submerged screen	Y	Y					

Groundwater Underdrain Piezometer

Well		Date of Measurements	
		4/16/2025	10/27/2025
GWPZ-1	Bottom of waste (feet MSL)	115.27	
	Groundwater Elevation (feet MSL)	broken	102.80
	Separation distance (ft)	broken	12.47
	Groundwater Level	broken	13.2
	Total Depth	13.2	13.2
	Depth Elevation	102.55	102.55

Table 4A – Summary of Water Elevations Over Time

Table 5 –Prediction Limits and GWPS Summary (Interwell Statistics)

Table 5
Background and GWPS Summary - Interwell
Annual Water Quality Report
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Unconsolidated Till

Interwell Background/(MW-15R)

Inorganics - Appendix I										
Constituent	Units	Model Type	Samples - N	Detections	Mean	SD	Prediction Limit	Confidence	GWPS	Source
Antimony (Sb)	µg/l	nonparametric	41	0			1.0300	0.99	6	SS
Arsenic (As)	µg/l	nonparametric	42	8			19.7000	0.99	19.7	SS
Barium (Ba)	µg/l	lognormal	42	42	5.2333	0.5757	767.6331		2000	SS
Beryllium (Be)	µg/l	nonparametric	40	0			1.0000	0.99	4	SS
Cadmium (Cd)	µg/l	nonparametric	42	12			1.2500	0.99	5	SS
Chromium (Cr)	µg/l	nonparametric	42	10			5.0000	0.99	100	SS
Cobalt (Co)	µg/l	nonparametric	42	9			7.9000	0.99	7.9	Site
Copper (Cu)	µg/l	nonparametric	42	0			5.0000	0.99	1300	SS
Lead (Pb)	µg/l	nonparametric	42	2			1.0000	0.99	15	SS
Nickel (Ni)	µg/l	nonparametric	42	2			6.5000	0.99	100	SS
Selenium (Se)	µg/l	nonparametric	42	3			4.0000	0.99	50	SS
Silver (Ag)	µg/l	nonparametric	42	0			5.0000	0.99	100	SS
Thallium (Tl)	µg/l	nonparametric	42	0			1.0000	0.99	2	SS
Vanadium (V)	µg/l	nonparametric	42	1			5.2000	0.99	35	SS
Zinc (Zn)	µg/l	nonparametric	42	12			185.0000	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	42	0	<1	<1	<1		various	SS

 = Prediction limit exceeds the GWPS. A Site-Specific GWPS equal to the Prediction Limit is used.

Dakota Sandstone

Interwell Background/(MW-22)

Inorganics - Appendix I										
Constituent	Units	Model Type	Samples - N	Detections	Mean	SD	Prediction Limit	Confidence	GWPS	Source
Antimony (Sb)	µg/l	nonparametric	38	7			6.6000	0.99	6.6	Site
Arsenic (As)	µg/l	nonparametric	38	1			1.3500	0.99	10	SS
Barium (Ba)	µg/l	normal	40	40	245.2875	20.077	294.5947		2000	SS
Beryllium (Be)	µg/l	nonparametric	37	0			1.0000	0.99	4	SS
Cadmium (Cd)	µg/l	nonparametric	40	9			1.5800	0.99	5	SS
Chromium (Cr)	µg/l	nonparametric	40	3			5.0000	0.99	100	SS
Cobalt (Co)	µg/l	nonparametric	40	2			1.7300	0.99	2.1	SS
Copper (Cu)	µg/l	nonparametric	40	1			16.4000	0.99	1300	SS
Lead (Pb)	µg/l	nonparametric	40	2			1.0000	0.99	15	SS
Nickel (Ni)	µg/l	nonparametric	40	1			10.7500	0.99	100	SS
Selenium (Se)	µg/l	nonparametric	40	0			3.2450	0.99	50	SS
Silver (Ag)	µg/l	nonparametric	40	0			2.6100	0.99	100	SS
Thallium (Tl)	µg/l	nonparametric	40	0			1.0000	0.99	2	SS
Vanadium (V)	µg/l	nonparametric	40	0			2.0000	0.99	35	SS
Zinc (Zn)	µg/l	nonparametric	39	8			34.1000	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	40	0	<1	<1	<1		various	SS

 = Prediction limit exceeds the GWPS. A Site-Specific GWPS equal to the Prediction Limit is used.

Table 5A –Control Limits and GWPS Summary (Intrawell Statistics)

Table 5A
Background Data Summary Tables - Control Limits
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(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-11	Antimony, total	ug/L	6	3.50	6
MW-11	Arsenic, total	ug/L	10	29.80	29.80
MW-11	Barium, total	ug/L	2000	2006.11	2006.11
MW-11	Beryllium, total	ug/L	4	1.00	4
MW-11	Cadmium, total	ug/L	5	12.53	12.53
MW-11	Chromium, total	ug/L	100	5.00	100
MW-11	Cobalt, total	ug/L	2.1	144.63	144.63
MW-11	Copper, total	ug/L	1300	28.30	1300
MW-11	Lead, total	ug/L	15	7.42	15
MW-11	Nickel, total	ug/L	100	183.14	183.14
MW-11	Selenium, total	ug/L	50	6.72	50
MW-11	Silver, total	ug/L	100	2.61	100
MW-11	Thallium, total	ug/L	2	2.00	2
MW-11	Vanadium, total	ug/L	35	5.00	35
MW-11	Zinc, total	ug/L	2000	220.52	2000.00

Table 5A
Background Data Summary Tables - Control Limits
Annual Water Quality Report
Cass County Landfill
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(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-15R	Antimony, total	ug/L	6	2.00	6
MW-15R	Arsenic, total	ug/L	10	4.50	10
MW-15R	Barium, total	ug/L	2000	607.06	2000
MW-15R	Beryllium, total	ug/L	4	1.00	4
MW-15R	Cadmium, total	ug/L	5	2.88	5
MW-15R	Chromium, total	ug/L	100	5.00	100
MW-15R	Cobalt, total	ug/L	2.1	2.00	2.1
MW-15R	Copper, total	ug/L	1300	5.00	1300
MW-15R	Lead, total	ug/L	15	0.52	15
MW-15R	Nickel, total	ug/L	100	5.00	100
MW-15R	Selenium, total	ug/L	50	5.00	50
MW-15R	Silver, total	ug/L	100	1.00	100
MW-15R	Thallium, total	ug/L	2	1.00	2
MW-15R	Vanadium, total	ug/L	35	5.00	35
MW-15R	Zinc, total	ug/L	2000	277.51	2000

Table 5A
Background Data Summary Tables - Control Limits
Annual Water Quality Report
Cass County Landfill
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(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-19	Antimony, total	ug/L	6	2.00	6
MW-19	Arsenic, total	ug/L	10	11.69	11.69
MW-19	Barium, total	ug/L	2000	2542.20	2542.20
MW-19	Beryllium, total	ug/L	4	1.61	4
MW-19	Cadmium, total	ug/L	5	52.50	52.50
MW-19	Chromium, total	ug/L	100	39.40	100
MW-19	Cobalt, total	ug/L	2.1	59.56	59.56
MW-19	Copper, total	ug/L	1300	23.20	1300
MW-19	Lead, total	ug/L	15	36.39	36.39
MW-19	Nickel, total	ug/L	100	151.12	151.12
MW-19	Selenium, total	ug/L	50	5.00	50
MW-19	Silver, total	ug/L	100	1.00	100
MW-19	Thallium, total	ug/L	2	2.00	2
MW-19	Vanadium, total	ug/L	35	53.20	53.20
MW-19	Zinc, total	ug/L	2000	263.40	2000

Table 5A
Background Data Summary Tables - Control Limits
Annual Water Quality Report
Cass County Landfill
Permit No. 15-SDP-01-75C

(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-20	Antimony, total	ug/L	6	6.45	6.45
MW-20	Arsenic, total	ug/L	10	265.52	22.50
MW-20	Barium, total	ug/L	2000	9818.71	9818.71
MW-20	Beryllium, total	ug/L	4	1.00	4
MW-20	Cadmium, total	ug/L	5	19.10	19.0953
MW-20	Chromium, total	ug/L	100	24.20	100
MW-20	Cobalt, total	ug/L	2.1	72.87	72.87
MW-20	Copper, total	ug/L	1300	33.40	1300
MW-20	Lead, total	ug/L	15	39.63	39.628
MW-20	Nickel, total	ug/L	100	344.87	344.87
MW-20	Selenium, total	ug/L	50	5.00	50
MW-20	Silver, total	ug/L	100	1.00	100
MW-20	Thallium, total	ug/L	2	2.00	2
MW-20	Vanadium, total	ug/L	35	4.60	35
MW-20	Zinc, total	ug/L	2000	660.76	2000

Table 5A
Background Data Summary Tables - Control Limits
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(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-21	Antimony, total	ug/L	6	2.00	6
MW-21	Arsenic, total	ug/L	10	8.10	8.10
MW-21	Barium, total	ug/L	2000	2767.13	2767.13
MW-21	Beryllium, total	ug/L	4	1.23	4
MW-21	Cadmium, total	ug/L	5	18.65	18.65
MW-21	Chromium, total	ug/L	100	68.50	100
MW-21	Cobalt, total	ug/L	2.1	70.58	70.58
MW-21	Copper, total	ug/L	1300	21.10	1300
MW-21	Lead, total	ug/L	15	9.30	15
MW-21	Nickel, total	ug/L	100	271.20	271.20
MW-21	Selenium, total	ug/L	50	13.20	50
MW-21	Silver, total	ug/L	100	1.00	100
MW-21	Thallium, total	ug/L	2	2.30	2.3
MW-21	Vanadium, total	ug/L	35	409.00	409
MW-21	Zinc, total	ug/L	2000	598.98	2000

Table 5A
Background Data Summary Tables - Control Limits
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(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-22	Antimony, total	ug/L	6	6.51	6.51
MW-22	Arsenic, total	ug/L	10	1.35	10
MW-22	Barium, total	ug/L	2000	373.20	2000
MW-22	Beryllium, total	ug/L	4	1.00	4
MW-22	Cadmium, total	ug/L	5	1.58	5
MW-22	Chromium, total	ug/L	100	5.00	100
MW-22	Cobalt, total	ug/L	2.1	1.73	2.1
MW-22	Copper, total	ug/L	1300	16.40	1300
MW-22	Lead, total	ug/L	15	1.00	15
MW-22	Nickel, total	ug/L	100	10.75	100
MW-22	Selenium, total	ug/L	50	5.00	50
MW-22	Silver, total	ug/L	100	1.00	100
MW-22	Thallium, total	ug/L	2	1.00	2
MW-22	Vanadium, total	ug/L	35	3.00	35
MW-22	Zinc, total	ug/L	2000	34.10	2000

Table 5A
Background Data Summary Tables - Control Limits
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Cass County Landfill
Permit No. 15-SDP-01-75C

(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-23	Antimony, total	ug/L	6	6.00	6
MW-23	Arsenic, total	ug/L	10	6.25	10
MW-23	Barium, total	ug/L	2000	481.17	2000
MW-23	Beryllium, total	ug/L	4	1.37	4
MW-23	Cadmium, total	ug/L	5	10.68	10.68
MW-23	Chromium, total	ug/L	100	5.00	100
MW-23	Cobalt, total	ug/L	2.1	11.55	11.55
MW-23	Copper, total	ug/L	1300	5.00	1300
MW-23	Lead, total	ug/L	15	6.95	15
MW-23	Nickel, total	ug/L	100	5.00	100
MW-23	Selenium, total	ug/L	50	21.60	50
MW-23	Silver, total	ug/L	100	1.00	100
MW-23	Thallium, total	ug/L	2	2.00	2
MW-23	Vanadium, total	ug/L	35	5.00	35
MW-23	Zinc, total	ug/L	2000	129.91	2000

Table 5A
Background Data Summary Tables - Control Limits
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Cass County Landfill
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(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-24	Antimony, total	ug/L	6	2.00	6
MW-24	Arsenic, total	ug/L	10	84.86	84.86
MW-24	Barium, total	ug/L	2000	2161.40	2161.40
MW-24	Beryllium, total	ug/L	4	1.00	4
MW-24	Cadmium, total	ug/L	5	2.44	5
MW-24	Chromium, total	ug/L	100		100
MW-24	Cobalt, total	ug/L	2.1	81.43	81.43
MW-24	Copper, total	ug/L	1300	5.00	1300
MW-24	Lead, total	ug/L	15	0.50	15
MW-24	Nickel, total	ug/L	100	101.57	101.57
MW-24	Selenium, total	ug/L	50	5.00	50
MW-24	Silver, total	ug/L	100	1.00	100
MW-24	Thallium, total	ug/L	2	1.00	2
MW-24	Vanadium, total	ug/L	35	5.00	35
MW-24	Zinc, total	ug/L	2000		2000

Table 5A
Background Data Summary Tables - Control Limits
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(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-36	Antimony, total	ug/L	6	7.08	7.08
MW-36	Arsenic, total	ug/L	10	12.83	12.83
MW-36	Barium, total	ug/L	2000	5986.87	5986.87
MW-36	Beryllium, total	ug/L	4	70.88	70.88
MW-36	Cadmium, total	ug/L	5	36.81	36.81
MW-36	Chromium, total	ug/L	100	8.38	100
MW-36	Cobalt, total	ug/L	2.1	871.26	871.26
MW-36	Copper, total	ug/L	1300	357.64	1300
MW-36	Lead, total	ug/L	15	481.05	481.05
MW-36	Nickel, total	ug/L	100	921.29	921.29
MW-36	Selenium, total	ug/L	50	13.20	50
MW-36	Silver, total	ug/L	100	1.00	100
MW-36	Thallium, total	ug/L	2	3.40	3.40
MW-36	Vanadium, total	ug/L	35	1059.07	1059.07
MW-36	Zinc, total	ug/L	2000	1357.81	2000

Table 5A
Background Data Summary Tables - Control Limits
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(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-37R	Antimony, total	ug/L	6	1.53	6
MW-37R	Arsenic, total	ug/L	10	1.21	10
MW-37R	Barium, total	ug/L	2000	1365.21	2000
MW-37R	Beryllium, total	ug/L	4	1.00	4
MW-37R	Cadmium, total	ug/L	5	0.86	5
MW-37R	Chromium, total	ug/L	100	5.00	100
MW-37R	Cobalt, total	ug/L	2.1	4.95	4.95
MW-37R	Copper, total	ug/L	1300	3.70	1300
MW-37R	Lead, total	ug/L	15	9.35	15
MW-37R	Nickel, total	ug/L	100	23.00	100
MW-37R	Selenium, total	ug/L	50	111.64	111.64
MW-37R	Silver, total	ug/L	100	1.00	100
MW-37R	Thallium, total	ug/L	2	1.00	2
MW-37R	Vanadium, total	ug/L	35	8.29	35
MW-37R	Zinc, total	ug/L	2000	20.00	2000

Table 5A
Background Data Summary Tables - Control Limits
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Permit No. 15-SDP-01-75C

(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-38R	Antimony, total	ug/L	6	2.00	6
MW-38R	Arsenic, total	ug/L	10	2.00	10
MW-38R	Barium, total	ug/L	2000	1536.97	2000
MW-38R	Beryllium, total	ug/L	4	1.00	4
MW-38R	Cadmium, total	ug/L	5	0.97	5
MW-38R	Chromium, total	ug/L	100	14.60	100
MW-38R	Cobalt, total	ug/L	2.1	9.63	9.63
MW-38R	Copper, total	ug/L	1300	5.88	1300
MW-38R	Lead, total	ug/L	15	0.68	15
MW-38R	Nickel, total	ug/L	100	26.08	100
MW-38R	Selenium, total	ug/L	50	93.59	93.59
MW-38R	Silver, total	ug/L	100	1.00	100
MW-38R	Thallium, total	ug/L	2	1.00	2
MW-38R	Vanadium, total	ug/L	35	1.54	35
MW-38R	Zinc, total	ug/L	2000	20.00	2000

Table 5A
Background Data Summary Tables - Control Limits
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(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-39	Antimony, total	ug/L	6	2.00	6
MW-39	Arsenic, total	ug/L	10	2.00	10
MW-39	Barium, total	ug/L	2000	188.26	2000
MW-39	Beryllium, total	ug/L	4	1.00	4
MW-39	Cadmium, total	ug/L	5	5.51	5.51
MW-39	Chromium, total	ug/L	100	5.28	100
MW-39	Cobalt, total	ug/L	2.1	15.60	15.60
MW-39	Copper, total	ug/L	1300	5.00	1300
MW-39	Lead, total	ug/L	15	11.50	15
MW-39	Nickel, total	ug/L	100	5.00	100
MW-39	Selenium, total	ug/L	50	193.27	193.27
MW-39	Silver, total	ug/L	100	1.00	100
MW-39	Thallium, total	ug/L	2	3.32	3.32
MW-39	Vanadium, total	ug/L	35	5.00	35
MW-39	Zinc, total	ug/L	2000	90.40	2000

Table 5A
Background Data Summary Tables - Control Limits
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(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-43	Antimony, total	ug/L	6	2.00	6
MW-43	Arsenic, total	ug/L	10	6.80	10
MW-43	Barium, total	ug/L	2000	759.65	2000
MW-43	Beryllium, total	ug/L	4	1.00	4
MW-43	Cadmium, total	ug/L	5	0.39	5
MW-43	Chromium, total	ug/L	100	13.80	100
MW-43	Cobalt, total	ug/L	2.1	194.58	194.58
MW-43	Copper, total	ug/L	1300	5.00	1300
MW-43	Lead, total	ug/L	15	0.50	15
MW-43	Nickel, total	ug/L	100	20.05	100
MW-43	Selenium, total	ug/L	50	27.50	50
MW-43	Silver, total	ug/L	100	1.00	100
MW-43	Thallium, total	ug/L	2	1.00	2
MW-43	Vanadium, total	ug/L	35	3.53	35
MW-43	Zinc, total	ug/L	2000	20.00	2000

Table 5A
Background Data Summary Tables - Control Limits
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(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-13	Antimony, total	ug/L	6		6
MW-13	Arsenic, total	ug/L	10		10
MW-13	Barium, total	ug/L	2000		2000
MW-13	Beryllium, total	ug/L	4		4
MW-13	Cadmium, total	ug/L	5		5
MW-13	Chromium, total	ug/L	100		100
MW-13	Cobalt, total	ug/L	2.1		2.1
MW-13	Copper, total	ug/L	1300		1300
MW-13	Lead, total	ug/L	15		15
MW-13	Nickel, total	ug/L	100		100
MW-13	Selenium, total	ug/L	50		50
MW-13	Silver, total	ug/L	100		100
MW-13	Thallium, total	ug/L	2		2
MW-13	Vanadium, total	ug/L	35		35
MW-13	Zinc, total	ug/L	2000		2000

Note: Control limit is left blank where insufficient data is available.

Table 6 – Summary of Detections Exceeding Prediction Limits (Interwell Statistics)

Table 6
Summary of Well/Detected Constituent Pairs that Exceed the Prediction Limit
Annual Water Quality Report
Cass County Sanitary Landfill
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INTERWELL Statistical Evaluation						
Well	Constituent	Date	Most recent result (ug/L)	Background Standard (ug/L)	GWPS (ug/L)	Monitoring Program
Unconsolidated						
MW-43	Nickel	10/27/2025	9.6	6.5	100	AZPOC to MW-12
MW-43	Nickel	12/5/2025	8.7	6.5	100	AZPOC to MW-12
MW-39	Selenium	4/16/2025	71.5	4.0	50	Detection Monitoring Well - not a landfill source
MW-39	Selenium	10/27/2025	71.5	4.0	50	Detection Monitoring Well - see Doc 97998
MW-38R	Selenium	10/27/2025	5.6	4.0	50	Assessment Monitoring Well
MW-37R	Barium	10/27/2025	925	767.63	2000	Assessment Monitoring Well
MW-37R	Selenium	4/16/2025	50.3	4.0	50	Assessment Monitoring Well
MW-24	Barium	10/27/2025	779	767.63	2000	AZPOC to MW-20 - Assessment Monitoring Well
MW-24	Nickel	4/16/2025	31.3	6.5	100	AZPOC to MW-20 - Assessment Monitoring Well
MW-24	Nickel	10/27/2025	26.5	6.5	100	AZPOC to MW-20 - Assessment Monitoring Well
MW-21	Barium	4/16/2025	1050	767.63	2000	Assessment Monitoring Well
MW-21	Cobalt	10/27/2025	19.0	7.9	7.9	Assessment Monitoring Well
MW-21	Nickel	4/16/2025	18.0	6.5	100	Assessment Monitoring Well
MW-21	Nickel	10/27/2025	8.3	6.5	100	Assessment Monitoring Well
MW-20	Arsenic	4/16/2025	71.2	19.7	19.7	Supplemental Source Well
MW-20	Arsenic	10/27/2025	86.0	19.7	19.7	Supplemental Source Well
MW-20	Barium	4/16/2025	1780	767.63	2000	Supplemental Source Well
MW-20	Barium	10/27/2025	2060	767.63	2000	Supplemental Source Well
MW-20	Nickel	4/16/2025	9.5	6.5	100	Supplemental Source Well
MW-20	Nickel	10/27/2025	28.0	6.5	100	Supplemental Source Well
MW-20	1,4-dichlorobenzene	4/16/2025	1.6	1.0	75	Supplemental Source Well
MW-20	1,4-dichlorobenzene	10/27/2025	2.4	1.0	75	Supplemental Source Well
MW-20	benzene	4/16/2025	1.7	1.0	5	Supplemental Source Well
MW-20	benzene	10/27/2025	2.2	1.0	5	Supplemental Source Well
MW-20	chlorobenzene	4/16/2025	2.3	1.0	100	Supplemental Source Well
MW-20	chlorobenzene	10/27/2025	3.1	1.0	100	Supplemental Source Well
MW-19	Barium	4/16/2025	1240	767.63	2000	Assessment Monitoring Well
MW-19	Barium	10/27/2025	1040	767.63	2000	Assessment Monitoring Well
MW-19	Cobalt	4/16/2025	22.6	7.9	7.9	Assessment Monitoring Well
MW-19	Cobalt	10/27/2025	25.6	7.9	7.9	Assessment Monitoring Well
MW-19	Nickel	4/16/2025	52.9	6.5	100	Assessment Monitoring Well
MW-19	Nickel	10/27/2025	57.9	6.5	100	Assessment Monitoring Well
MW-19	Chlorobenzene	4/16/2025	1.4	1.0	100	Assessment Monitoring Well
MW-19	Chlorobenzene	10/27/2025	1.2	1.0	100	Assessment Monitoring Well
Dakota Sandstone						
MW-11	Arsenic	4/16/2025	17.7	1.35	10	Supplemental Source Well
MW-11	Barium	4/16/2025	608.0	294.59	2000	Supplemental Source Well
MW-11	Cobalt	4/16/2025	14.2	1.7	2.1	Supplemental Source Well
MW-11	Cobalt	10/27/2025	2.1	1.7	2.1	Supplemental Source Well
MW-11	Copper	4/16/2025	104.0	16.4	1300	Supplemental Source Well
MW-11	Copper	7/14/2025	41.5	16.4	1300	Supplemental Source Well
MW-11	Copper	10/27/2025	54.9	16.4	1300	Supplemental Source Well
MW-11	Zinc	4/16/2025	131.0	34.1	2000	Supplemental Source Well
MW-11	Zinc	10/27/2025	81.5	34.1	2000	Supplemental Source Well
MW-36	Chromium	10/27/2025	6.40	5	100	Assessment Monitoring Well
MW-36	Cobalt	10/27/2025	13.30	1.73	2.1	Assessment Monitoring Well
MW-36	Nickel	10/27/2025	13.70	10.75	100	Assessment Monitoring Well

Notes UD-0 and UD-1 were dry 4/16/2025 & 10/27/2025
MW-12 was dry 4/16/2025 & 10/27/2025
MW-13 (vertical) and MW-43 (horizontal) are step-out AZPOC wells to MW-12
MW-24 is a step-out AZPOC well to MW-20
Document 97998 established that the selenium at MW-39 was not from a landfill source (approved Doc 98498)

Table 6A – Summary of Detections Exceeding Control Limits (Intrawell Statistics)

Table 6A
Summary of Well/Detected Constituent Pairs that Exceed the Prediction Limit
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INTRAWELL Statistical Evaluation

Well	Constituent	Date	Most recent result (ug/L)	Background Standard (ug/L)	GWPS (ug/L)	Monitoring Program
Unconsolidated						
MW-38R	Vanadium	10/27/2025	3.1	1.54	35	Assessment Monitoring Well
MW-20	1,4-dichlorobenzene	4/16/2025	1.6	1.0	75	Supplemental Source Well
MW-20	1,4-dichlorobenzene	10/27/2025	2.4	1.0	75	Supplemental Source Well
MW-20	benzene	4/16/2025	1.7	1.0	5	Supplemental Source Well
MW-20	benzene	10/27/2025	2.2	1.0	5	Supplemental Source Well
MW-20	chlorobenzene	4/16/2025	2.3	1.0	100	Supplemental Source Well
MW-20	chlorobenzene	10/27/2025	3.1	1.0	100	Supplemental Source Well
MW-19	chlorobenzene	4/16/2025	1.4	1.0	100	Assessment Monitoring Well
MW-19	chlorobenzene	10/27/2025	1.2	1.0	100	Assessment Monitoring Well
Dakota Sandstone						
MW-11	Copper	4/16/2025	104.0	16.4	1300	Assessment Monitoring Well
MW-11	Copper	7/14/2025	41.5	16.4	1300	Assessment Monitoring Well
MW-11	Copper	10/27/2025	54.9	16.4	1300	Assessment Monitoring Well

Notes *UD-0 and UD-1 were dry 4/16/2025 & 10/27/2025*
MW-12 was dry 4/16/2025 & 10/27/2025
MW-13 (vertical) and MW-43 (horizontal) are step-out AZPOC wells to MW-12
MW-24 is a step-out AZPOC well to MW-20

Table 7 – Summary of Ongoing and Newly Identified SSI

Table 7

KEY:

Interwell SSI

Intrawell SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI

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

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-11	Arsenic	11/26/2018	3.74	1.35	3.74	29.80	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	3/18/2019	2.51	1.35	2.51	29.80	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	12/2/2019	2.19	1.35	2.19	29.80	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	3/30/2020	2.13	1.35	2.13	29.80	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	11/17/2020	3.91	1.35	3.91	29.80	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	5/6/2021	2.83	1.35	2.83	29.80	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	10/7/2021	11.00	1.35	11.00	29.80	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	4/6/2022	7.53	1.35	7.53	29.80	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	8/23/2022	2.30	1.35	2.30	29.80	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	3/8/2023	13.50	1.35	13.50	29.80	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	9/13/2023	14.50	1.35	14.50	29.80	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	5/29/2024	5.17	1.35	5.17	29.80	2.457	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	10/15/2024	6.60	1.35	6.60	29.80	4.368	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	4/16/2025	17.70	1.35	6.60	29.80	3.854	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	10/27/2025	<2.0	1.35	<2.0	29.80	0.000	10	10/15/2024	NA	12/2/2019

Table 7

KEY:

Interwell SSI

Intrawell SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI

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

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-11	Barium	11/26/2018	462	293.2723	462	2006.11	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	3/18/2019	456	293.2723	456	2006.11	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	12/2/2019	410	293.2723	410	2006.11	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	3/30/2020	416	293.2723	416	2006.11	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	11/17/2020	397	293.2723	397	2006.11	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	5/6/2021	465	293.2723	465	2006.11	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	10/7/2021	571	293.2723	571	2006.11	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	4/6/2022	544	293.2723	544	2006.11	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	8/23/2022	419	293.2723	419	2006.11	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	3/8/2023	745	293.2723	745	2006.11	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	9/13/2023	636	293.2723	636	2006.11	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	5/29/2024	496	293.2723	496	2006.11	410.900	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	10/15/2024	346	293.2723	346	2006.11	352.214	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	4/16/2025	608	294.5947	608	2006.11	366.57	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	10/27/2025	203	294.5947	203	2006.11	205.584	2000	10/15/2024	NA	12/2/2019

Table 7

KEY:

Interwell SSI

Intrawell SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI

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

Annual Water Quality Report

Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-11	Cobalt	11/26/2018	4.58	1.73	4.58	144.630	--	3.981	10/15/2024	NA	12/2/2019
MW-11	Cobalt	3/18/2019	4.10	1.73	4.10	144.630	--	3.981	10/15/2024	NA	12/2/2019
MW-11	Cobalt	12/2/2019	3.54	1.73	3.54	144.630	--	3.981	10/15/2024	NA	12/2/2019
MW-11	Cobalt	3/30/2020	3.29	1.73	3.29	144.630	--	3.981	10/15/2024	NA	12/2/2019
MW-11	Cobalt	11/17/2020	9.93	1.73	9.93	144.630	--	3.981	10/15/2024	NA	12/2/2019
MW-11	Cobalt	5/6/2021	9.32	1.73	9.32	144.630	--	3.981	10/15/2024	NA	12/2/2019
MW-11	Cobalt	10/7/2021	14.80	1.73	14.80	144.630	--	3.981	10/15/2024	NA	12/2/2019
MW-11	Cobalt	4/6/2022	10.70	1.73	10.70	144.630	--	3.981	10/15/2024	NA	12/2/2019
MW-11	Cobalt	8/23/2022	6.19	1.73	6.19	144.630	--	3.981	10/15/2024	NA	12/2/2019
MW-11	Cobalt	3/8/2023	13.40	1.73	13.40	144.630	--	3.981	10/15/2024	NA	12/2/2019
MW-11	Cobalt	9/13/2023	11.30	1.73	11.30	144.630	5.927	3.981	10/15/2024	NA	12/2/2019
MW-11	Cobalt	5/29/2024	6.63	1.73	6.63	144.630	7.116	3.981	10/15/2024	NA	12/2/2019
MW-11	Cobalt	10/15/2024	3.00	1.73	3.00	144.630	3.083	3.981	10/15/2024	NA	12/2/2019
MW-11	Cobalt	4/16/2025	14.20	1.73	14.20	144.630	2.950	3.981	10/15/2024	NA	12/2/2019
MW-11	Cobalt	10/27/2025	2.10	1.73	2.10	144.630	0.007	3.981	10/15/2024	NA	12/2/2019

Table 7

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Interwell SSI

Intrawell SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI

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

Annual Water Quality Report

Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-11	Copper	11/26/2018	<5.0	16.4	<5.0	28.30	--	1300	10/15/2024	NA	12/2/2019
MW-11	Copper	3/18/2019	<5.0	16.4	<5.0	28.30	--	1300	10/15/2024	NA	12/2/2019
MW-11	Copper	12/2/2019	<5.0	16.4	<5.0	28.30	--	1300	10/15/2024	NA	12/2/2019
MW-11	Copper	3/30/2020	<5.0	16.4	<5.0	28.30	--	1300	10/15/2024	NA	12/2/2019
MW-11	Copper	11/17/2020	<5.0	16.4	<5.0	28.30	--	1300	10/15/2024	NA	12/2/2019
MW-11	Copper	5/6/2021	<5.0	16.4	<5.0	28.30	--	1300	10/15/2024	NA	12/2/2019
MW-11	Copper	10/7/2021	<5.0	16.4	<5.0	28.30	--	1300	10/15/2024	NA	12/2/2019
MW-11	Copper	4/6/2022	<5.0	16.4	<5.0	28.30	--	1300	10/15/2024	NA	12/2/2019
MW-11	Copper	8/23/2022	<5.0	16.4	<5.0	28.30	--	1300	10/15/2024	NA	12/2/2019
MW-11	Copper	3/8/2023	<5.0	16.4	<5.0	28.30	--	1300	10/15/2024	NA	12/2/2019
MW-11	Copper	9/13/2023	<5.0	16.4	<5.0	28.30	--	1300	10/15/2024	NA	12/2/2019
MW-11	Copper	5/29/2024	<5.0	16.4	<5.0	28.30	--	1300	10/15/2024	NA	12/2/2019
MW-11	Copper	10/15/2024	9.7	16.4	9.7	28.30	--	1300	10/15/2024	NA	12/2/2019
MW-11	Copper	4/16/2025	104.0	16.4	104.0	28.30	--	1300	10/15/2024	NA	12/2/2019
MW-11	Copper	7/14/2025	41.5	16.4	41.5	28.30	0.000	1300	10/15/2024	NA	12/2/2019
MW-11	Copper	10/27/2025	54.9	16.4	54.9	28.30	6.410	1300	10/15/2024	NA	12/2/2019

Table 7

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Interwell SSI

Intrawell SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI

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

Annual Water Quality Report

Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-11	Zinc	11/26/2018	<20.	34.1	<20.	220.52	--	2000	10/15/2024	NA	12/2/2019
MW-11	Zinc	3/18/2019	<20.	34.1	<20.	220.52	--	2000	10/15/2024	NA	12/2/2019
MW-11	Zinc	12/2/2019	<20.	34.1	<20.	220.52	--	2000	10/15/2024	NA	12/2/2019
MW-11	Zinc	3/30/2020	<20.	34.1	<20.	220.52	--	2000	10/15/2024	NA	12/2/2019
MW-11	Zinc	11/17/2020	<20.	34.1	<20.	220.52	--	2000	10/15/2024	NA	12/2/2019
MW-11	Zinc	5/6/2021	<20.	34.1	<20.	220.52	--	2000	10/15/2024	NA	12/2/2019
MW-11	Zinc	10/7/2021	<20.	34.1	<20.	220.52	--	2000	10/15/2024	NA	12/2/2019
MW-11	Zinc	4/6/2022	<20.	34.1	<20.	220.52	--	2000	10/15/2024	NA	12/2/2019
MW-11	Zinc	8/23/2022	<20.	34.1	<20.	220.52	--	2000	10/15/2024	NA	12/2/2019
MW-11	Zinc	3/8/2023	<20.	34.1	<20.	220.52	--	2000	10/15/2024	NA	12/2/2019
MW-11	Zinc	9/13/2023	<20.	34.1	<20.	220.52	--	2000	10/15/2024	NA	12/2/2019
MW-11	Zinc	5/29/2024	<20.	34.1	<20.	220.52	410.900	2000	10/15/2024	NA	12/2/2019
MW-11	Zinc	10/15/2024	28.4	34.1	28.4	220.52	352.214	2000	10/15/2024	NA	12/2/2019
MW-11	Zinc	4/16/2025	131.0	34.1	131.0	220.52	0.000	2000	10/15/2024	NA	12/2/2019
MW-11	Zinc	10/27/2025	81.5	34.1	81.5	220.52	0.000	2000	10/15/2024	NA	12/2/2019

⁽¹⁾ The background water quality for the site should be reevaluated with consideration for additional existing wells to be included in the background (beyond MW-22). The new prediction limit may exceed the Statewide Standard (GWPS).

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

KEY: Interwell SSI

Intrawell 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)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-36	Chromium	11/27/2018	<5.0	5.0	<5.0	8.38	--	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	3/18/2019	<5.0	5.0	<5.0	8.38	--	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	6/5/2019	<5.0	5.0	<5.0	8.38	--	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	8/22/2019	<5.0	5.0	<5.0	8.38	--	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	12/2/2019	<5.0	5.0	<5.0	8.38	--	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	2/28/2020	<5.0	5.0	<5.0	8.38	--	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	3/30/2020	<5.0	5.0	<5.0	8.38	--	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	11/17/2020	<5.0	5.0	<5.0	8.38	--	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	5/6/2021	<5.0	5.0	<5.0	8.38	--	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	4/6/2022	<5.0	5.0	<5.0	8.38	--	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	8/23/2022	<5.0	5.0	<5.0	8.38	--	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	3/8/2023	<5.0	5.0	<5.0	8.38	--	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	9/13/2023	<5.0	5.0	<5.0	8.38	--	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	5/29/2024	44.90	5.0	44.90	8.38	--	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	10/15/2024	<8.0	5.0	<8.0	8.38	--	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	4/16/2025	1.30	5.0	1.30	8.38	0.000	100	8/22/2019	NA	12/2/2019
MW-36	Chromium	10/27/2025	6.40	5.0	6.40	8.38	0.000	100	8/22/2019	NA	12/2/2019

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Interwell SSI

Intrawell SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI

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

Annual Water Quality Report

Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-36	Cobalt	11/27/2018	<1.0	1.73	<1.0	871.260	--	3.981	10/15/2024	NA	12/2/2019
MW-36	Cobalt	3/18/2019	13.90	1.73	13.90	871.260	--	3.981	10/15/2024	NA	12/2/2019
MW-36	Cobalt	12/2/2019	3.85	1.73	3.85	871.260	--	3.981	10/15/2024	NA	12/2/2019
MW-36	Cobalt	3/30/2020	0.716	1.73	0.72	871.260	--	3.981	10/15/2024	NA	12/2/2019
MW-36	Cobalt	11/17/2020	<0.5	1.73	<0.5	871.260	--	3.981	10/15/2024	NA	12/2/2019
MW-36	Cobalt	5/6/2021	1.33	1.73	1.33	871.260	--	3.981	10/15/2024	NA	12/2/2019
MW-36	Cobalt	10/7/2021	1.16	1.73	1.16	871.260	--	3.981	10/15/2024	NA	12/2/2019
MW-36	Cobalt	4/6/2022	2.31	1.73	2.31	871.260	--	3.981	10/15/2024	NA	12/2/2019
MW-36	Cobalt	8/23/2022	2.53	1.73	2.53	871.260	--	3.981	10/15/2024	NA	12/2/2019
MW-36	Cobalt	3/8/2023	1.58	1.73	1.58	871.260	--	3.981	10/15/2024	NA	12/2/2019
MW-36	Cobalt	9/13/2023	3.87	1.73	3.87	871.260	--	3.981	10/15/2024	NA	12/2/2019
MW-36	Cobalt	5/29/2024	24.60	1.73	24.60	871.260	--	3.981	10/15/2024	NA	12/2/2019
MW-36	Cobalt	10/15/2024	0.80	1.73	0.80	871.260	--	3.981	10/15/2024	NA	12/2/2019
MW-36	Cobalt	4/16/2025	1.20	1.73	1.20	871.260	0.000	3.981	10/15/2024	NA	12/2/2019
MW-36	Cobalt	10/27/2025	13.30	1.73	13.30	871.260	0.000	3.981	10/15/2024	NA	12/2/2019

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Interwell SSI

Intrawell SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI

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Annual Water Quality Report

Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-36	Nickel	11/27/2018	<5.0	10.75	<5.0	921.2900	--	100	5/29/2024	NA	12/2/2019
MW-36	Nickel	3/18/2019	4.105	10.75	4.105	921.2900	--	100	5/29/2024	NA	12/2/2019
MW-36	Nickel	12/2/2019	<3.0	10.75	<3.0	921.2900	--	100	5/29/2024	NA	12/2/2019
MW-36	Nickel	3/30/2020	<3.0	10.75	<3.0	921.2900	--	100	5/29/2024	NA	12/2/2019
MW-36	Nickel	11/17/2020	<5.0	10.75	<5.0	921.2900	--	100	5/29/2024	NA	12/2/2019
MW-36	Nickel	5/6/2021	<4.15	10.75	<4.15	921.2900	--	100	5/29/2024	NA	12/2/2019
MW-36	Nickel	10/7/2021	<4.5	10.75	<4.5	921.2900	--	100	5/29/2024	NA	12/2/2019
MW-36	Nickel	4/6/2022	6.33	10.75	6.33	921.2900	--	100	5/29/2024	NA	12/2/2019
MW-36	Nickel	8/23/2022	5.35	10.75	5.35	921.2900	--	100	5/29/2024	NA	12/2/2019
MW-36	Nickel	3/8/2023	8.07	10.75	8.07	921.2900	--	100	5/29/2024	NA	12/2/2019
MW-36	Nickel	9/13/2023	18.30	10.75	18.30	921.2900	--	100	5/29/2024	NA	12/2/2019
MW-36	Nickel	5/29/2024	122.00	10.75	122.00	921.2900	--	100	5/29/2024	NA	12/2/2019
MW-36	Nickel	10/15/2024	6.60	10.75	6.60	921.2900	--	100	5/29/2024	NA	12/2/2019
MW-36	Nickel	4/16/2025	6.20	10.75	6.20	921.2900	0.000	100	5/29/2024	NA	12/2/2019
MW-36	Nickel	10/27/2025	13.70	10.75	13.70	921.2900	0.000	100	5/29/2024	NA	12/2/2019

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Summary of Ongoing & Newly Identified SSI

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Annual Water Quality Report

Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-19	Barium	11/26/2018	1040	767.6331	1040	2542.20	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	3/18/2019	1160	767.6331	1160	2542.20	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	12/2/2019	1030	767.6331	1030	2542.20	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	3/30/2020	1040	767.6331	1040	2542.20	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	11/17/2020	1150	767.6331	1150	2542.20	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	5/6/2021	1150	767.6331	1150	2542.20	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	10/7/2021	1140	767.6331	1140	2542.20	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	4/6/2022	1300	767.6331	1300	2542.20	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	8/23/2022	1110	767.6331	1110	2542.20	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	3/8/2023	1270	767.6331	1270	2542.20	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	9/13/2023	1240	767.6331	1240	2542.20	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	5/29/2024	1070	767.6331	1070	2542.20	1092.000	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	10/15/2024	966	767.6331	966	2542.20	967.361	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	4/16/2025	1240	767.6331	1240	2542.20	970.176	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	10/27/2025	1040	767.6331	1040	2542.20	942.679	2000	10/15/2024	NA	12/2/2019

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Summary of Ongoing & Newly Identified SSI

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Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-19	Cobalt	11/26/2018	16.90	7.9	16.90	59.560	--	49.62	10/15/2024	NA	12/2/2019
MW-19	Cobalt	3/18/2019	13.30	7.9	13.30	59.560	--	49.62	10/15/2024	NA	12/2/2019
MW-19	Cobalt	12/2/2019	15.50	7.9	15.50	59.560	--	49.62	10/15/2024	NA	12/2/2019
MW-19	Cobalt	3/30/2020	14.20	7.9	14.20	59.560	--	49.62	10/15/2024	NA	12/2/2019
MW-19	Cobalt	11/17/2020	20.60	7.9	20.60	59.560	--	49.62	10/15/2024	NA	12/2/2019
MW-19	Cobalt	5/6/2021	20.10	7.9	20.10	59.560	--	49.62	10/15/2024	NA	12/2/2019
MW-19	Cobalt	10/7/2021	22.60	7.9	22.60	59.560	--	49.62	10/15/2024	NA	12/2/2019
MW-19	Cobalt	4/6/2022	25.60	7.9	25.60	59.560	--	49.62	10/15/2024	NA	12/2/2019
MW-19	Cobalt	8/23/2022	21.30	7.9	21.30	59.560	--	49.62	10/15/2024	NA	12/2/2019
MW-19	Cobalt	3/8/2023	23.55	7.9	23.55	59.560	--	49.62	10/15/2024	NA	12/2/2019
MW-19	Cobalt	9/13/2023	23.80	7.9	23.80	59.560	--	49.62	10/15/2024	NA	12/2/2019
MW-19	Cobalt	5/29/2024	23.40	7.9	23.40	59.560	20.660	49.62	10/15/2024	NA	12/2/2019
MW-19	Cobalt	10/15/2024	19.50	7.9	19.50	59.560	20.153	49.62	10/15/2024	NA	12/2/2019
MW-19	Cobalt	4/16/2025	22.60	7.9	22.60	59.560	20.033	49.62	10/15/2024	NA	12/2/2019
MW-19	Cobalt	10/27/2025	25.60	7.9	25.60	59.560	19.805	49.62	10/15/2024	NA	12/2/2019

Table 7

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Interwell SSI

Intrawell SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI

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

Annual Water Quality Report

Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-19	Nickel	11/26/2018	62.70	6.5	62.70	151.12	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	3/18/2019	64.35	6.5	64.35	151.12	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	12/2/2019	59.60	6.5	59.60	151.12	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	3/30/2020	58.10	6.5	58.10	151.12	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	11/17/2020	60.40	6.5	60.40	151.12	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	5/6/2021	49.50	6.5	49.50	151.12	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	10/7/2021	56.40	6.5	56.40	151.12	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	4/6/2022	64.30	6.5	64.30	151.12	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	8/23/2022	63.80	6.5	63.80	151.12	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	3/8/2023	61.65	6.5	61.65	151.12	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	9/13/2023	43.10	6.5	43.10	151.12	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	5/29/2024	59.60	6.5	59.60	151.12	49.450	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	10/15/2024	55.70	6.5	55.70	151.12	45.230	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	4/16/2025	52.90	6.5	52.90	151.12	44.542	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	10/27/2025	57.90	6.5	57.90	151.12	53.118	100	5/29/2024	NA	12/2/2019

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Annual Water Quality Report

Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-19	Benzene	11/26/2018	0.75	1.0	0.75	1.0	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	3/18/2019	<0.5	1.0	<0.5	1.0	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	12/2/2019	<0.5	1.0	<0.5	1.0	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	3/30/2020	<0.5	1.0	<0.5	1.0	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	11/17/2020	0.56	1.0	0.56	1.0	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	5/6/2021	0.82	1.0	0.82	1.0	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	10/7/2021	0.86	1.0	0.86	1.0	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	4/6/2022	0.93	1.0	0.93	1.0	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	8/23/2022	0.59	1.0	0.59	1.0	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	3/8/2023	0.91	1.0	0.91	1.0	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	9/13/2023	0.73	1.0	0.73	1.0	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	5/29/2024	0.62	1.0	0.62	1.0	0.595	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	10/15/2024	<0.5	1.0	<0.5	1.0	0.301	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	4/16/2025	<1	1.0	<1	1.0	0.169	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	10/27/2025	<1	1.0	<1	1.0	0.124	5	11/26/2018	NA	11/17/2020

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Annual Water Quality Report

Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-19	Chlorobenzene	11/26/2018	<1.0	1.0	<1.0	1.0	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	3/18/2019	<1.0	1.0	<1.0	1.0	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	12/2/2019	<1.0	1.0	<1.0	1.0	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	3/30/2020	<1.0	1.0	<1.0	1.0	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	11/17/2020	<1.0	1.0	<1.0	1.0	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	5/6/2021	1.21	1.0	1.21	1.0	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	10/7/2021	1.45	1.0	1.45	1.0	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	4/6/2022	1.92	1.0	1.92	1.0	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	8/23/2022	1.89	1.0	1.89	1.0	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	3/8/2023	1.86	1.0	1.86	1.0	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	9/13/2023	1.49	1.0	1.49	1.0	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	5/29/2024	1.16	1.0	1.16	1.0	0.765	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	10/15/2024	1.20	1.0	1.20	1.0	1.043	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	4/16/2025	1.40	1.0	1.40	1.0	1.126	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	10/27/2025	1.20	1.0	1.20	1.0	1.113	100	5/6/2021	NA	11/17/2020

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Summary of Ongoing & Newly Identified SSI

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Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-19	gamma-chlordane	11/26/2018	<0.05	0.05	<0.05	0.05	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	3/18/2019	<0.05	0.05	<0.05	0.05	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	12/2/2019	<0.05	0.05	<0.05	0.05	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	3/30/2020	0.0634	0.05	0.0634	0.05	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	11/17/2020	<0.05	0.05	<0.05	0.05	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	5/6/2021	0.119	0.05	0.119	0.05	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	10/7/2021	<0.05	0.05	<0.05	0.05	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	4/6/2022	<0.05	0.05	<0.05	0.05	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	8/23/2022	<0.05	0.05	<0.05	0.05	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	3/8/2023	<0.05	0.05	<0.05	0.05	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	9/13/2023	<0.05	0.05	<0.05	0.05	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	5/29/2024	<0.05	0.05	<0.05	0.05	0.016	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	10/15/2024	<0.05	0.05	<0.05	0.05	0.025	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	4/16/2025	<0.05	0.05	<0.05	0.05	0.025	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	10/27/2025	NT	0.05	NT	0.05	0.025	2	3/30/2020	NA	11/17/2020

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Summary of Ongoing & Newly Identified SSI

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Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-20	Arsenic	11/27/2018	59.20	19.70	59.20	265.52	--	19.7	10/15/2024	NA	12/2/2019
MW-20	Arsenic	3/18/2019	43.30	19.70	43.30	265.52	--	19.7	10/15/2024	NA	12/2/2019
MW-20	Arsenic	12/2/2019	76.30	19.70	76.30	265.52	--	19.7	10/15/2024	NA	12/2/2019
MW-20	Arsenic	3/30/2020	56.40	19.70	56.40	265.52	--	19.7	10/15/2024	NA	12/2/2019
MW-20	Arsenic	11/17/2020	63.70	19.70	63.70	265.52	--	19.7	10/15/2024	NA	12/2/2019
MW-20	Arsenic	5/6/2021	53.00	19.70	53.00	265.52	--	19.7	10/15/2024	NA	12/2/2019
MW-20	Arsenic	10/7/2021	75.85	19.70	75.85	265.52	--	19.7	10/15/2024	NA	12/2/2019
MW-20	Arsenic	4/6/2022	83.30	19.70	83.30	265.52	--	19.7	10/15/2024	NA	12/2/2019
MW-20	Arsenic	8/23/2022	<8.0	19.70	<8.0	265.52	--	19.7	10/15/2024	NA	12/2/2019
MW-20	Arsenic	3/8/2023	81.30	19.70	81.30	265.52	--	19.7	10/15/2024	NA	12/2/2019
MW-20	Arsenic	9/13/2023	80.00	19.70	80.00	265.52	--	19.7	10/15/2024	NA	12/2/2019
MW-20	Arsenic	5/29/2024	112.50	19.70	112.50	265.52	--	19.7	10/15/2024	NA	12/2/2019
MW-20	Arsenic	10/15/2024	77.50	19.70	77.50	265.52	68.386	19.7	10/15/2024	NA	12/2/2019
MW-20	Arsenic	4/16/2025	71.20	19.70	71.20	265.52	63.530	19.7	10/15/2024	NA	12/2/2019
MW-20	Arsenic	10/27/2025	86.00	19.70	86.00	265.52	65.421	19.7	10/15/2024	NA	12/2/2019

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Annual Water Quality Report

Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-20	Barium	11/27/2018	1930	767.6331	1930	9818.71	--	2000	10/15/2024	NA	12/2/2019
MW-20	Barium	3/18/2019	2740	767.6331	2740	9818.71	--	2000	10/15/2024	NA	12/2/2019
MW-20	Barium	12/2/2019	2960	767.6331	2960	9818.71	--	2000	10/15/2024	NA	12/2/2019
MW-20	Barium	3/30/2020	1850	767.6331	1850	9818.71	--	2000	10/15/2024	NA	12/2/2019
MW-20	Barium	11/17/2020	3320	767.6331	3320	9818.71	--	2000	10/15/2024	NA	12/2/2019
MW-20	Barium	5/6/2021	2090	767.6331	2090	9818.71	--	2000	10/15/2024	NA	12/2/2019
MW-20	Barium	10/7/2021	2285	767.6331	2285	9818.71	--	2000	10/15/2024	NA	12/2/2019
MW-20	Barium	4/6/2022	2120	767.6331	2120	9818.71	--	2000	10/15/2024	NA	12/2/2019
MW-20	Barium	8/23/2022	2470	767.6331	2470	9818.71	--	2000	10/15/2024	NA	12/2/2019
MW-20	Barium	3/8/2023	3800	767.6331	3800	9818.71	--	2000	10/15/2024	NA	12/2/2019
MW-20	Barium	9/13/2023	3320	767.6331	3320	9818.71	--	2000	10/15/2024	NA	12/2/2019
MW-20	Barium	5/29/2024	1640	767.6331	1640	9818.71	--	2000	10/15/2024	NA	12/2/2019
MW-20	Barium	10/15/2024	2430	767.6331	2430	9818.71	1670.701	2000	10/15/2024	NA	12/2/2019
MW-20	Barium	4/16/2025	1780	767.6331	1780	9818.71	1390.745	2000	10/15/2024	NA	12/2/2019
MW-20	Barium	10/27/2025	2060	767.6331	2060	9818.71	1567.497	2000	10/15/2024	NA	12/2/2019

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Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-20	Cobalt	11/27/2018	7.96	7.9	7.96	72.870	--	49.62	10/15/2024	NA	12/2/2019
MW-20	Cobalt	3/18/2019	10.40	7.9	10.40	72.870	--	49.62	10/15/2024	NA	12/2/2019
MW-20	Cobalt	12/2/2019	12.40	7.9	12.40	72.870	--	49.62	10/15/2024	NA	12/2/2019
MW-20	Cobalt	3/30/2020	7.96	7.9	7.96	72.870	--	49.62	10/15/2024	NA	12/2/2019
MW-20	Cobalt	11/17/2020	13.00	7.9	13.00	72.870	--	49.62	10/15/2024	NA	12/2/2019
MW-20	Cobalt	5/6/2021	8.44	7.9	8.44	72.870	--	49.62	10/15/2024	NA	12/2/2019
MW-20	Cobalt	10/7/2021	9.32	7.9	9.32	72.870	--	49.62	10/15/2024	NA	12/2/2019
MW-20	Cobalt	4/6/2022	9.16	7.9	9.16	72.870	--	49.62	10/15/2024	NA	12/2/2019
MW-20	Cobalt	8/23/2022	8.82	7.9	8.82	72.870	--	49.62	10/15/2024	NA	12/2/2019
MW-20	Cobalt	3/8/2023	15.80	7.9	15.80	72.870	--	49.62	10/15/2024	NA	12/2/2019
MW-20	Cobalt	9/13/2023	13.10	7.9	13.10	72.870	--	49.62	10/15/2024	NA	12/2/2019
MW-20	Cobalt	5/29/2024	8.04	7.9	8.04	72.870	--	49.62	10/15/2024	NA	12/2/2019
MW-20	Cobalt	10/15/2024	9.90	7.9	9.90	72.870	7.669	49.62	10/15/2024	NA	12/2/2019
MW-20	Cobalt	4/16/2025	3.60	7.9	3.60	72.870	3.992	49.62	10/15/2024	NA	12/2/2019
MW-20	Cobalt	10/27/2025	6.70	7.9	6.70	72.870	3.938	49.62	10/15/2024	NA	12/2/2019

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Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-20	Nickel	11/27/2018	16.20	6.50	16.20	344.87	--	100	5/29/2024	NA	12/2/2019
MW-20	Nickel	3/18/2019	46.00	6.50	46.00	344.87	--	100	5/29/2024	NA	12/2/2019
MW-20	Nickel	12/2/2019	58.20	6.50	58.20	344.87	--	100	5/29/2024	NA	12/2/2019
MW-20	Nickel	3/30/2020	12.00	6.50	12.00	344.87	--	100	5/29/2024	NA	12/2/2019
MW-20	Nickel	11/17/2020	71.60	6.50	71.60	344.87	--	100	5/29/2024	NA	12/2/2019
MW-20	Nickel	5/6/2021	20.50	6.50	20.50	344.87	--	100	5/29/2024	NA	12/2/2019
MW-20	Nickel	10/7/2021	42.15	6.50	42.15	344.87	--	100	5/29/2024	NA	12/2/2019
MW-20	Nickel	4/6/2022	31.20	6.50	31.20	344.87	--	100	5/29/2024	NA	12/2/2019
MW-20	Nickel	8/23/2022	65.00	6.50	65.00	344.87	--	100	5/29/2024	NA	12/2/2019
MW-20	Nickel	3/8/2023	78.70	6.50	78.70	344.87	--	100	5/29/2024	NA	12/2/2019
MW-20	Nickel	9/13/2023	48.70	6.50	48.70	344.87	--	100	5/29/2024	NA	12/2/2019
MW-20	Nickel	5/29/2024	14.40	6.50	14.40	344.87	--	100	5/29/2024	NA	12/2/2019
MW-20	Nickel	10/15/2024	50.80	6.50	50.80	344.87	17.179	100	5/29/2024	NA	12/2/2019
MW-20	Nickel	4/16/2025	9.50	6.50	9.50	344.87	5.052	100	5/29/2024	NA	12/2/2019
MW-20	Nickel	10/27/2025	28.00	6.50	28.00	344.87	3.928	100	5/29/2024	NA	12/2/2019

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Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-20	1,4-dichlorobenzene	11/27/2018	1.98	1.0	1.98	1.0	--	75	11/27/2018	NA	11/17/2020
MW-20	1,4-dichlorobenzene	3/18/2019	<1.0	1.0	<1.0	1.0	--	75	11/27/2018	NA	11/17/2020
MW-20	1,4-dichlorobenzene	12/2/2019	<1.0	1.0	<1.0	1.0	--	75	11/27/2018	NA	11/17/2020
MW-20	1,4-dichlorobenzene	3/30/2020	1.81	1.0	1.81	1.0	--	75	11/27/2018	NA	11/17/2020
MW-20	1,4-dichlorobenzene	11/17/2020	<1.0	1.0	<1.0	1.0	--	75	11/27/2018	NA	11/17/2020
MW-20	1,4-dichlorobenzene	5/6/2021	<1.0	1.0	<1.0	1.0	--	75	11/27/2018	NA	11/17/2020
MW-20	1,4-dichlorobenzene	10/7/2021	2.37	1.0	2.37	1.0	--	75	11/27/2018	NA	11/17/2020
MW-20	1,4-dichlorobenzene	4/6/2022	1.94	1.0	1.94	1.0	--	75	11/27/2018	NA	11/17/2020
MW-20	1,4-dichlorobenzene	8/23/2022	1.79	1.0	1.79	1.0	--	75	11/27/2018	NA	11/17/2020
MW-20	1,4-dichlorobenzene	3/8/2023	2.40	1.0	2.40	1.0	--	75	11/27/2018	NA	11/17/2020
MW-20	1,4-dichlorobenzene	9/13/2023	2.48	1.0	2.48	1.0	--	75	11/27/2018	NA	11/17/2020
MW-20	1,4-dichlorobenzene	5/29/2024	1.98	1.0	1.98	1.0	--	75	11/27/2018	NA	11/17/2020
MW-20	1,4-dichlorobenzene	10/15/2024	3.10	1.0	3.10	1.0	1.909	75	11/27/2018	NA	11/17/2020
MW-20	1,4-dichlorobenzene	4/16/2025	1.60	1.0	1.60	1.0	1.502	75	11/27/2018	NA	11/17/2020
MW-20	1,4-dichlorobenzene	10/27/2025	2.40	1.0	2.40	1.0	1.490	75	11/27/2018	NA	11/17/2020

Table 7

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Interwell SSI

Intrawell SSI

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Summary of Ongoing & Newly Identified SSI

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Annual Water Quality Report

Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-20	benzene	11/27/2018	3.06	1.0	3.06	1.0	--	5	11/27/2018	NA	11/17/2020
MW-20	benzene	3/18/2019	3.04	1.0	3.04	1.0	--	5	11/27/2018	NA	11/17/2020
MW-20	benzene	12/2/2019	3.24	1.0	3.24	1.0	--	5	11/27/2018	NA	11/17/2020
MW-20	benzene	3/30/2020	2.00	1.0	2.00	1.0	--	5	11/27/2018	NA	11/17/2020
MW-20	benzene	11/17/2020	2.04	1.0	2.04	1.0	--	5	11/27/2018	NA	11/17/2020
MW-20	benzene	5/6/2021	2.68	1.0	2.68	1.0	--	5	11/27/2018	NA	11/17/2020
MW-20	benzene	10/7/2021	2.74	1.0	2.74	1.0	--	5	11/27/2018	NA	11/17/2020
MW-20	benzene	4/6/2022	2.90	1.0	2.90	1.0	--	5	11/27/2018	NA	11/17/2020
MW-20	benzene	8/23/2022	2.91	1.0	2.91	1.0	--	5	11/27/2018	NA	11/17/2020
MW-20	benzene	3/8/2023	3.14	1.0	3.14	1.0	--	5	11/27/2018	NA	11/17/2020
MW-20	benzene	9/13/2023	2.93	1.0	2.93	1.0	--	5	11/27/2018	NA	11/17/2020
MW-20	benzene	5/29/2024	2.18	1.0	2.18	1.0	--	5	11/27/2018	NA	11/17/2020
MW-20	benzene	10/15/2024	3.00	1.0	3.00	1.0	2.165	5	11/27/2018	NA	11/17/2020
MW-20	benzene	4/16/2025	1.70	1.0	1.70	1.0	1.641	5	11/27/2018	NA	11/17/2020
MW-20	benzene	10/27/2025	2.20	1.0	2.20	1.0	1.575	5	11/27/2018	NA	11/17/2020

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Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-20	chlorobenzene	11/27/2018	3.36	1.0	3.36	1.0	--	100	11/27/2018	NA	11/17/2020
MW-20	chlorobenzene	3/18/2019	3.67	1.0	3.67	1.0	--	100	11/27/2018	NA	11/17/2020
MW-20	chlorobenzene	12/2/2019	3.80	1.0	3.80	1.0	--	100	11/27/2018	NA	11/17/2020
MW-20	chlorobenzene	3/30/2020	2.69	1.0	2.69	1.0	--	100	11/27/2018	NA	11/17/2020
MW-20	chlorobenzene	11/17/2020	<1.0	1.0	<1.0	1.0	--	100	11/27/2018	NA	11/17/2020
MW-20	chlorobenzene	5/6/2021	2.29	1.0	2.29	1.0	--	100	11/27/2018	NA	11/17/2020
MW-20	chlorobenzene	10/7/2021	3.60	1.0	3.60	1.0	--	100	11/27/2018	NA	11/17/2020
MW-20	chlorobenzene	4/6/2022	3.27	1.0	3.27	1.0	--	100	11/27/2018	NA	11/17/2020
MW-20	chlorobenzene	8/23/2022	3.29	1.0	3.29	1.0	--	100	11/27/2018	NA	11/17/2020
MW-20	chlorobenzene	3/8/2023	4.44	1.0	4.44	1.0	--	100	11/27/2018	NA	11/17/2020
MW-20	chlorobenzene	9/13/2023	4.34	1.0	4.34	1.0	--	100	11/27/2018	NA	11/17/2020
MW-20	chlorobenzene	5/29/2024	2.87	1.0	2.87	1.0	--	100	11/27/2018	NA	11/17/2020
MW-20	chlorobenzene	10/15/2024	4.70	1.0	4.70	1.0	3.021	100	11/27/2018	NA	11/17/2020
MW-20	chlorobenzene	4/16/2025	2.30	1.0	2.30	1.0	2.142	100	11/27/2018	NA	11/17/2020
MW-20	chlorobenzene	10/27/2025	3.10	1.0	3.10	1.0	1.986	100	11/27/2018	NA	11/17/2020

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Summary of Ongoing & Newly Identified SSI
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KEY: Interwell SSI

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-20	Endosulfan I	11/27/2018	<0.05	0.05	<0.05	0.05	--	42	3/8/2023	NA	11/17/2020
MW-20	Endosulfan I	3/18/2019	<0.05	0.05	<0.05	0.05	--	42	3/8/2023	NA	11/17/2020
MW-20	Endosulfan I	12/2/2019	0.0370	0.05	0.0370	0.05	--	42	3/8/2023	NA	11/17/2020
MW-20	Endosulfan I	3/30/2020	<0.05	0.05	<0.05	0.05	--	42	3/8/2023	NA	11/17/2020
MW-20	Endosulfan I	11/17/2020	<0.05	0.05	<0.05	0.05	--	42	3/8/2023	NA	11/17/2020
MW-20	Endosulfan I	5/6/2021	0.0472	0.05	0.0472	0.05	--	42	3/8/2023	NA	11/17/2020
MW-20	Endosulfan I	10/7/2021	0.0435	0.05	0.0435	0.05	--	42	3/8/2023	NA	11/17/2020
MW-20	Endosulfan I	4/6/2022	<0.05	0.05	<0.05	0.05	--	42	3/8/2023	NA	11/17/2020
MW-20	Endosulfan I	8/23/2022	<0.05	0.05	<0.05	0.05	--	42	3/8/2023	NA	11/17/2020
MW-20	Endosulfan I	3/8/2023	0.112	0.05	0.112	0.05	--	42	3/8/2023	NA	11/17/2020
MW-20	Endosulfan I	9/13/2023	<0.05	0.05	<0.05	0.05	--	42	3/8/2023	NA	11/17/2020
MW-20	Endosulfan I	5/29/2024	<0.05	0.05	<0.05	0.05	--	42	3/8/2023	NA	11/17/2020
MW-20	Endosulfan I	10/15/2024	0.130	0.05	0.130	0.05	0.025	42	3/8/2023	NA	11/17/2020
MW-20	Endosulfan I	4/16/2025	<0.05	0.05	<0.05	0.05	0.025	42	3/8/2023	NA	11/17/2020
MW-20	Endosulfan I	10/27/2025	<0.05	0.05	<0.05	0.05	0.025	42	3/8/2023	NA	11/17/2020

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Summary of Ongoing & Newly Identified SSI

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Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-21	Barium	11/27/2018	421.00	767.6331	421.00	2767.13	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	3/18/2019	236.00	767.6331	236.00	2767.13	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	12/2/2019	969.00	767.6331	969.00	2767.13	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	3/30/2020	1180.00	767.6331	1180.00	2767.13	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	11/17/2020	894.000	767.6331	894.000	2767.13	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	5/6/2021	909.00	767.6331	909.00	2767.13	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	10/7/2021	733.00	767.6331	733.00	2767.13	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	4/6/2022	1050.00	767.6331	1050.00	2767.13	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	8/23/2022	1095.00	767.6331	1095.00	2767.13	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	3/8/2023	1210.00	767.6331	1210.00	2767.13	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	9/13/2023	1240.00	767.6331	1240.00	2767.13	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	5/29/2024	1110.00	767.6331	1110.00	2767.13	847.000	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	10/15/2024	1170.000	767.6331	1170.000	2767.13	1116.394	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	4/16/2025	1050.000	767.6331	1050.000	2767.13	1046.757	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	10/27/2025	634.000	767.6331	634.000	2767.13	705.174	2000	10/15/2024	NA	12/2/2019

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Summary of Ongoing & Newly Identified SSI

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Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-21	Cobalt	11/27/2018	1.33	7.9	1.33	70.58	--	49.62	10/15/2024	NA	12/2/2019
MW-21	Cobalt	3/18/2019	3.39	7.9	3.39	70.58	--	49.62	10/15/2024	NA	12/2/2019
MW-21	Cobalt	12/2/2019	3.30	7.9	3.30	70.58	--	49.62	10/15/2024	NA	12/2/2019
MW-21	Cobalt	3/30/2020	1.70	7.9	1.70	70.58	--	49.62	10/15/2024	NA	12/2/2019
MW-21	Cobalt	11/17/2020	1.86	7.9	1.86	70.58	--	49.62	10/15/2024	NA	12/2/2019
MW-21	Cobalt	5/6/2021	1.64	7.9	1.64	70.58	--	49.62	10/15/2024	NA	12/2/2019
MW-21	Cobalt	10/7/2021	2.68	7.9	2.68	70.58	--	49.62	10/15/2024	NA	12/2/2019
MW-21	Cobalt	4/6/2022	4.62	7.9	4.62	70.58	--	49.62	10/15/2024	NA	12/2/2019
MW-21	Cobalt	8/23/2022	3.94	7.9	3.94	70.58	--	49.62	10/15/2024	NA	12/2/2019
MW-21	Cobalt	3/8/2023	5.73	7.9	5.73	70.58	--	49.62	10/15/2024	NA	12/2/2019
MW-21	Cobalt	9/13/2023	4.68	7.9	4.68	70.58	--	49.62	10/15/2024	NA	12/2/2019
MW-21	Cobalt	5/29/2024	7.15	7.9	7.15	70.58	--	49.62	10/15/2024	NA	12/2/2019
MW-21	Cobalt	10/15/2024	13.40	7.9	13.40	70.58	3.145	49.62	10/15/2024	NA	12/2/2019
MW-21	Cobalt	4/16/2025	6.10	7.9	6.10	70.58	3.479	49.62	10/15/2024	NA	12/2/2019
MW-21	Cobalt	10/27/2025	19.00	7.9	19.00	70.58	4.358	49.62	10/15/2024	NA	12/2/2019

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Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-21	Copper	11/27/2018	5.77	5.0	5.77	21.10	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	3/18/2019	<5.0	5.0	<5.0	21.10	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	12/2/2019	<5.0	5.0	<5.0	21.10	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	3/30/2020	<5.0	5.0	<5.0	21.10	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	11/17/2020	<5.0	5.0	<5.0	21.10	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	5/6/2021	<5.0	5.0	<5.0	21.10	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	10/7/2021	<5.0	5.0	<5.0	21.10	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	4/6/2022	<5.0	5.0	<5.0	21.10	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	8/23/2022	<5.0	5.0	<5.0	21.10	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	3/8/2023	<5.0	5.0	<5.0	21.10	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	9/13/2023	<5.0	5.0	<5.0	21.10	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	5/29/2024	<5.0	5.0	<5.0	21.10	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	10/15/2024	7.40	5.0	7.40	21.10	0.843	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	4/16/2025	<5.0	5.0	<5.0	21.10	0.843	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	10/27/2025	<5.0	5.0	<5.0	21.10	0.843	1300	10/15/2024	NA	12/2/2019

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Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-21	Nickel	11/27/2018	6.55	6.50	6.55	271.20	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	3/18/2019	6.09	6.50	6.09	271.20	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	12/2/2019	<4.0	6.50	<4.0	271.20	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	3/30/2020	<4.0	6.50	<4.0	271.20	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	11/17/2020	<4.0	6.50	<4.0	271.20	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	5/6/2021	<4.0	6.50	<4.0	271.20	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	10/7/2021	<4.0	6.50	<4.0	271.20	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	4/6/2022	<4.0	6.50	<4.0	271.20	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	8/23/2022	<4.0	6.50	<4.0	271.20	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	3/8/2023	8.53	6.50	8.53	271.20	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	9/13/2023	<4.0	6.50	<4.0	271.20	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	5/29/2024	11.70	6.50	11.70	271.20	2.680	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	10/15/2024	27.20	6.50	27.20	271.20	7.095	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	4/16/2025	18.00	6.50	18.00	271.20	12.19	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	10/27/2025	8.30	6.50	8.30	271.20	6.532	100	5/29/2024	NA	12/2/2019

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Summary of Ongoing & Newly Identified SSI
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Permit No. 15-SDP-01-75C

KEY: Interwell SSI

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-24	Arsenic	11/26/20218	<2.0	19.70	<2.0	88.09	--	19.70	10/15/2024	NA	11/17/2020
MW-24	Arsenic	3/18/2019	<2.0	19.70	<2.0	88.09	--	19.70	10/15/2024	NA	11/17/2020
MW-24	Arsenic	12/2/2019	<2.0	19.70	<2.0	88.09	--	19.70	10/15/2024	NA	11/17/2020
MW-24	Arsenic	3/30/2020	<2.0	19.70	<2.0	88.09	--	19.70	10/15/2024	NA	11/17/2020
MW-24	Arsenic	11/17/2020	2.86	19.70	2.86	88.09	--	19.70	10/15/2024	NA	11/17/2020
MW-24	Arsenic	5/6/2021	<2.0	19.70	<2.0	88.09	--	19.70	10/15/2024	NA	11/17/2020
MW-24	Arsenic	10/7/2021	2.09	19.70	2.09	88.09	--	19.70	10/15/2024	NA	11/17/2020
MW-24	Arsenic	4/6/2022	<2.0	19.70	<2.0	88.09	--	19.70	10/15/2024	NA	11/17/2020
MW-24	Arsenic	8/23/2022	<2.0	19.70	<2.0	88.09	--	19.70	10/15/2024	NA	11/17/2020
MW-24	Arsenic	9/29/2022	<2.0	19.70	<2.0	88.09	--	19.70	10/15/2024	NA	11/17/2020
MW-24	Arsenic	3/8/2023	<2.0	19.70	<2.0	88.09	--	19.70	10/15/2024	NA	11/17/2020
MW-24	Arsenic	9/13/2023	<2.0	19.70	<2.0	88.09	--	19.70	10/15/2024	NA	11/17/2020
MW-24	Arsenic	5/29/2024	<2.0	19.70	<2.0	88.09	0.8643	19.70	10/15/2024	NA	11/17/2020
MW-24	Arsenic	10/15/2024	9.90	19.70	9.90	88.09	0.000	19.70	10/15/2024	NA	11/17/2020
MW-24	Arsenic	4/16/2025	4.20	19.70	4.20	84.86	0.000	19.70	10/15/2024	NA	11/17/2020
MW-24	Arsenic	10/27/2025	9.50	19.70	9.50	84.86	0.822	19.70	10/15/2024	NA	11/17/2020

Table 7
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KEY: Interwell SSI

Intrawell 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)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-24	Barium	11/26/20218	200.00	767.6331	200.00	2209.75	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	3/30/2020	761.00	767.6331	761.00	2209.75	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	11/17/2020	896.00	767.6331	896.00	2209.75	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	5/6/2021	735.00	767.6331	735.00	2209.75	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	10/7/2021	785.00	767.6331	785.00	2209.75	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	4/6/2022	702.00	767.6331	702.00	2209.75	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	7/8/2022	679.00	767.6331	679.00	2209.75	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	8/23/2022	774.00	767.6331	774.00	2209.75	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	9/29/2022	834.00	767.6331	834.00	2209.75	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	3/8/2023	819.00	767.6331	819.00	2209.75	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	9/13/2023	712.00	767.6331	712.00	2209.75	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	5/29/2024	581.00	767.6331	581.00	2209.75	646.800	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	10/15/2024	700.00	767.6331	700.00	2209.75	588.490	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	4/16/2025	618.00	767.6331	618.00	2161.40	596.120	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	10/27/2025	779.00	767.6331	779.00	2161.40	565.602	2000	3/30/2020	NA	10/7/2021

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KEY:

Interwell SSI

Intrawell 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)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-24	Cobalt	3/18/2019	<0.4	7.9	<0.4	89.08	--	49.62	8/23/2022	NA	8/23/2022
MW-24	Cobalt	3/30/2020	0.88	7.9	0.88	89.08	--	49.62	8/23/2022	NA	8/23/2022
MW-24	Cobalt	4/6/2022	3.13	7.9	3.13	89.08	--	49.62	8/23/2022	NA	8/23/2022
MW-24	Cobalt	7/8/2022	3.66	7.9	3.66	89.08	--	49.62	8/23/2022	NA	8/23/2022
MW-24	Cobalt	8/23/2022	4.23	7.9	4.23	89.08	--	49.62	8/23/2022	NA	8/23/2022
MW-24	Cobalt	9/29/2022	4.16	7.9	4.16	89.08	--	49.62	8/23/2022	NA	8/23/2022
MW-24	Cobalt	3/8/2023	2.83	7.9	2.83	89.08	--	49.62	8/23/2022	NA	8/23/2022
MW-24	Cobalt	9/13/2023	3.23	7.9	3.23	89.08	--	49.62	8/23/2022	NA	8/23/2022
MW-24	Cobalt	5/29/2024	2.22	7.9	2.22	89.08	1.876	49.62	8/23/2022	NA	8/23/2022
MW-24	Cobalt	10/15/2024	4.30	7.9	4.30	89.08	2.116	49.62	8/23/2022	NA	8/23/2022
MW-24	Cobalt	4/16/2025	2.90	7.9	2.90	81.43	2.143	49.62	8/23/2022	NA	8/23/2022
MW-24	Cobalt	10/27/2025	2.00	7.9	2.00	81.43	1.636	49.62	8/23/2022	NA	8/23/2022

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-24	Nickel	11/26/20218	2.72	6.50	2.72	102.55	--	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	4/6/2022	32.30	6.50	32.30	102.55	--	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	7/8/2022	29.00	6.50	29.00	102.55	--	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	8/23/2022	30.60	6.50	30.60	102.55	--	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	9/29/2022	29.10	6.50	29.10	102.55	--	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	3/8/2023	30.10	6.50	30.10	102.55	--	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	9/13/2023	23.90	6.50	23.90	102.55	--	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	5/29/2024	30.50	6.50	30.50	102.55	2.720	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	10/15/2024	32.70	6.50	32.70	102.55	24.857	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	4/16/2025	31.30	6.50	31.30	101.57	25.004	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	10/27/2025	26.50	6.50	26.50	101.57	27.121	100	4/6/2022	NA	9/29/2022

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KEY:	Interwell SSI	Intrawell SSI

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-37R	Barium	11/27/2018	828	767.6331	828	1365.21	--	2000	NA	NA	12/2/2019
MW-37R	Barium	3/18/2019	887	767.6331	887	1365.21	--	2000	NA	NA	12/2/2019
MW-37R	Barium	6/5/2019	710	767.6331	710	1365.21	--	2000	NA	NA	12/2/2019
MW-37R	Barium	8/22/2019	879	767.6331	879	1365.21	--	2000	NA	NA	12/2/2019
MW-37R	Barium	12/2/2019	786	767.6331	786	1365.21	--	2000	NA	NA	12/2/2019
MW-37R	Barium	2/28/2020	857	767.6331	857	1365.21	--	2000	NA	NA	12/2/2019
MW-37R	Barium	3/30/2020	805	767.6331	805	1365.21	--	2000	NA	NA	12/2/2019
MW-37R	Barium	11/17/2020	780	767.6331	780	1365.21	--	2000	NA	NA	12/2/2019
MW-37R	Barium	5/6/2021	907	767.6331	907	1365.21	--	2000	NA	NA	12/2/2019
MW-37R	Barium	10/7/2021	911	767.6331	911	1365.21	--	2000	NA	NA	12/2/2019
MW-37R	Barium	4/6/2022	939	767.6331	939	1365.21	--	2000	NA	NA	12/2/2019
MW-37R	Barium	3/8/2023	863	767.6331	863	1365.21	--	2000	NA	NA	12/2/2019
MW-37R	Barium	9/13/2023	693	767.6331	693	1365.21	--	2000	NA	NA	12/2/2019
MW-37R	Barium	5/29/2024	686	767.6331	686	1365.21	718.800	2000	NA	NA	12/2/2019
MW-37R	Barium	10/15/2024	715	767.6331	715	1365.21	641.124	2000	NA	NA	12/2/2019
MW-37R	Barium	4/16/2025	687	767.6331	687	1365.21	679.341	2000	NA	NA	12/2/2019
MW-37R	Barium	10/27/2025	925	767.6331	925	1365.21	617.640	2000	NA	NA	12/2/2019

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KEY:

Interwell SSI

Intrawell SSI

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-37R	Lead	11/27/2018	<0.5	1.0	<0.5	9.35	--	15	NA	NA	12/2/2019
MW-37R	Lead	3/18/2019	<0.5	1.0	<0.5	9.35	--	15	NA	NA	12/2/2019
MW-37R	Lead	6/5/2019	<0.5	1.0	<0.5	9.35	--	15	NA	NA	12/2/2019
MW-37R	Lead	8/22/2019	<0.5	1.0	<0.5	9.35	--	15	NA	NA	12/2/2019
MW-37R	Lead	12/2/2019	0.7190	1.0	0.7190	9.35	--	15	NA	NA	12/2/2019
MW-37R	Lead	2/28/2020	<0.5	1.0	<0.5	9.35	--	15	NA	NA	12/2/2019
MW-37R	Lead	3/30/2020	<0.5	1.0	<0.5	9.35	--	15	NA	NA	12/2/2019
MW-37R	Lead	11/17/2020	3.80	1.0	3.80	9.35	--	15	NA	NA	12/2/2019
MW-37R	Lead	5/6/2021	1.69	1.0	1.69	9.35	--	15	NA	NA	12/2/2019
MW-37R	Lead	10/7/2021	2.67	1.0	2.67	9.35	--	15	NA	NA	12/2/2019
MW-37R	Lead	4/6/2022	3.80	1.0	3.80	9.35	--	15	NA	NA	12/2/2019
MW-37R	Lead	3/8/2023	1.59	1.0	1.59	9.35	--	15	NA	NA	12/2/2019
MW-37R	Lead	9/13/2023	1.35	1.0	1.35	9.35	--	15	NA	NA	12/2/2019
MW-37R	Lead	5/29/2024	2.16	1.0	2.16	9.35	0.865	15	NA	NA	12/2/2019
MW-37R	Lead	10/15/2024	<4.0	1.0	<4.0	9.35	0.396	15	NA	NA	12/2/2019
MW-37R	Lead	4/16/2025	<1.0	1.0	<1.0	9.35	0.000	15	NA	NA	12/2/2019
MW-37R	Lead	10/27/2025	<1.0	1.0	<1.0	9.35	0.000	15	NA	NA	12/2/2019

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KEY: Interwell SSI

Intrawell 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)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-37R	Selenium	11/27/2018	12.30	4.0	12.30	111.64	--	50	NA	NA	12/2/2019
MW-37R	Selenium	3/18/2019	8.08	4.0	8.08	111.64	--	50	NA	NA	12/2/2019
MW-37R	Selenium	6/5/2019	10.00	4.0	10.00	111.64	--	50	NA	NA	12/2/2019
MW-37R	Selenium	8/22/2019	6.32	4.0	6.32	111.64	--	50	NA	NA	12/2/2019
MW-37R	Selenium	12/2/2019	5.04	4.0	5.04	111.64	--	50	NA	NA	12/2/2019
MW-37R	Selenium	2/28/2020	4.58	4.0	4.58	111.64	--	50	NA	NA	12/2/2019
MW-37R	Selenium	3/30/2020	5.01	4.0	5.01	111.64	--	50	NA	NA	12/2/2019
MW-37R	Selenium	11/17/2020	17.90	4.0	17.90	111.64	--	50	NA	NA	12/2/2019
MW-37R	Selenium	5/6/2021	12.95	4.0	12.95	111.64	--	50	NA	NA	12/2/2019
MW-37R	Selenium	10/7/2021	11.90	4.0	11.90	111.64	--	50	NA	NA	12/2/2019
MW-37R	Selenium	4/6/2022	14.30	4.0	14.30	111.64	--	50	NA	NA	12/2/2019
MW-37R	Selenium	3/8/2023	20.10	4.0	20.10	111.64	--	50	NA	NA	12/2/2019
MW-37R	Selenium	9/13/2023	55.80	4.0	55.80	111.64	--	50	NA	NA	12/2/2019
MW-37R	Selenium	5/29/2024	40.50	4.0	40.50	111.64	5.010	50	NA	NA	12/2/2019
MW-37R	Selenium	10/15/2024	15.80	4.0	15.80	111.64	11.166	50	NA	NA	12/2/2019
MW-37R	Selenium	4/16/2025	50.30	4.0	50.30	111.64	19.766	50	NA	NA	12/2/2019
MW-37R	Selenium	10/27/2025	2.80	4.0	2.80	111.64	1.617	50	NA	NA	12/2/2019

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Summary of Ongoing & Newly Identified SSI

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Arsenic	11/27/2018	<4	19.7	<4	2.0	--	19.7	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	3/18/2019	<4	19.7	<4	2.0	--	19.7	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	6/5/2019	1.39	19.7	1.39	2.0	--	19.7	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	8/22/2019	<4	19.7	<4	2.0	--	19.7	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	12/2/2019	0.842	19.7	0.842	2.0	--	19.7	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	3/30/2020	<4.0	19.7	<4.0	2.0	--	19.7	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	11/17/2020	<4.0	19.7	<4.0	2.0	--	19.7	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	5/6/2021	<4.0	19.7	<4.0	2.0	--	19.7	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	4/6/2022	<4.0	19.7	<4.0	2.0	--	19.7	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	8/23/2022	<4.0	19.7	<4.0	2.0	--	19.7	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	3/8/2023	<4.0	19.7	<4.0	2.0	--	19.7	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	9/13/2023	<4.0	19.7	<4.0	2.0	--	19.7	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	5/29/2024	0.543	19.7	0.543	2.0	--	19.7	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	10/15/2024	15.70	19.7	15.70	2.0	0.000	19.7	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	4/16/2025	<2.0	19.7	<2.0	2.0	0.000	19.7	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	10/27/2025	<2.0	19.7	<2.0	2.0	0.000	19.7	10/15/2024	NA	12/2/2019

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Cadmium	11/27/2018	<0.8	1.25	<0.8	0.97	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	3/18/2019	<0.8	1.25	<0.8	0.97	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	6/5/2019	<0.8	1.25	<0.8	0.97	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	8/22/2019	<0.8	1.25	<0.8	0.97	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	12/2/2019	0.32	1.25	0.32	0.97	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	2/28/2020	0.39	1.25	0.39	0.97	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	3/30/2020	0.53	1.25	0.53	0.97	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	11/17/2020	0.22	1.25	0.22	0.97	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	5/6/2021	0.28	1.25	0.28	0.97	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	4/6/2022	0.20	1.25	0.20	0.97	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	8/23/2022	0.16	1.25	0.16	0.97	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	3/8/2023	<0.8	1.25	<0.8	0.97	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	9/13/2023	<0.8	1.25	<0.8	0.97	0.078	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	5/29/2024	<0.8	1.25	<0.8	0.97	0.000	5	10/15/2024	NA	12/2/2019

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Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Cadmium	10/15/2024	1.90	1.25	1.90	0.97	0.000	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	4/16/2025	0.20	1.25	0.20	0.97	0.000	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	10/27/2025	<0.2	1.25	<0.2	0.97	0.000	5	10/15/2024	NA	12/2/2019
MW-38R	Chromium	11/27/2018	<5.0	5.0	<5.0	14.6	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	3/18/2019	<5.0	5.0	<5.0	14.6	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	6/5/2019	<5.0	5.0	<5.0	14.6	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	8/22/2019	14.60	5.0	14.60	14.6	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	12/2/2019	<5.0	5.0	<5.0	14.6	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	2/28/2020	<5.0	5.0	<5.0	14.6	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	3/30/2020	<5.0	5.0	<5.0	14.6	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	11/17/2020	<5.0	5.0	<5.0	14.6	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	5/6/2021	<5.0	5.0	<5.0	14.6	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	4/6/2022	<5.0	5.0	<5.0	14.6	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	8/23/2022	<5.0	5.0	<5.0	14.6	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	3/8/2023	<5.0	5.0	<5.0	14.6	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	9/13/2023	<5.0	5.0	<5.0	14.6	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	5/29/2024	177.00	5.0	177.00	14.6	2.500	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	10/15/2024	218.00	5.0	218.00	14.6	0.000	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	4/16/2025	3.20	5.0	3.20	14.6	0.000	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	10/27/2025	3.20	5.0	3.20	14.6	0.000	100	8/22/2019	NA	12/2/2019

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Summary of Ongoing & Newly Identified SSI

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Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Cobalt	11/27/2018	<0.4	7.9	<0.4	9.626	--	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	3/18/2019	<0.4	7.9	<0.4	9.626	--	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	6/5/2019	1.36	7.9	1.36	9.626	--	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	8/22/2019	1.13	7.9	1.13	9.626	--	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	12/2/2019	3.84	7.9	3.84	9.626	--	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	2/28/2020	2.62	7.9	2.62	9.626	--	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	3/30/2020	3.17	7.9	3.17	9.626	--	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	11/17/2020	<0.4	7.9	<0.4	9.626	--	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	5/6/2021	0.50	7.9	0.50	9.626	--	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	4/6/2022	<0.4	7.9	<0.4	9.626	--	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	8/23/2022	<0.4	7.9	<0.4	9.626	--	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	3/8/2023	<0.4	7.9	<0.4	9.626	--	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	9/13/2023	<0.4	7.9	<0.4	9.626	--	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	5/29/2024	2.87	7.9	2.87	9.626	0.185	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	10/15/2024	16.80	7.9	16.80	9.626	0.000	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	4/16/2025	0.50	7.9	0.50	9.626	0.000	49.62	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	10/27/2025	0.60	7.9	0.60	9.626	0.000	49.62	10/15/2024	NA	12/2/2019

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Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Copper	11/27/2018	<4.0	5.0	<4.0	5.88	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	3/18/2019	<4.0	5.0	<4.0	5.88	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	6/5/2019	<4.0	5.0	<4.0	5.88	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	8/22/2019	<4.0	5.0	<4.0	5.88	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	12/2/2019	<4.0	5.0	<4.0	5.88	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	2/28/2020	<4.0	5.0	<4.0	5.88	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	3/30/2020	<4.0	5.0	<4.0	5.88	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	11/17/2020	<4.0	5.0	<4.0	5.88	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	5/6/2021	<4.0	5.0	<4.0	5.88	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	4/6/2022	<4.0	5.0	<4.0	5.88	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	8/23/2022	<4.0	5.0	<4.0	5.88	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	3/8/2023	<4.0	5.0	<4.0	5.88	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	9/13/2023	<4.0	5.0	<4.0	5.88	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	5/29/2024	5.88	5.0	5.88	5.88	1.900	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	10/15/2024	23.90	5.0	23.90	5.88	0.000	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	4/16/2025	<5.0	5.0	<5.0	5.88	0.000	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	10/27/2025	<5.0	5.0	<5.0	5.88	0.000	1300	10/15/2024	NA	12/2/2019

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Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Lead	11/27/2018	<4.0	1.000	<4.0	0.684	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	3/18/2019	<4.0	1.000	<4.0	0.684	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	6/5/2019	<4.0	1.000	<4.0	0.684	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	8/22/2019	<4.0	1.000	<4.0	0.684	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	12/2/2019	<4.0	1.000	<4.0	0.684	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	2/28/2020	<4.0	1.000	<4.0	0.684	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	3/30/2020	<4.0	1.000	<4.0	0.684	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	11/17/2020	<4.0	1.000	<4.0	0.684	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	5/6/2021	0.601	1.000	0.601	0.684	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	4/6/2022	0.684	1.000	0.684	0.684	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	8/23/2022	<4.0	1.000	<4.0	0.684	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	3/8/2023	<4.0	1.000	<4.0	0.684	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	9/13/2023	<4.0	1.000	<4.0	0.684	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	5/29/2024	<4.0	1.000	<4.0	0.684	0.250	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	10/15/2024	14.5	1.000	14.5	0.684	0.000	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	4/16/2025	<1.0	1.000	<1.0	0.684	0.000	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	10/27/2025	<1.0	1.000	<1.0	0.684	0.000	15	10/15/2024	NA	12/2/2019

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Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Nickel	11/27/2018	6.25	6.50	6.25	26.0791	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	3/18/2019	<4.0	6.50	<4.0	26.0791	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	6/5/2019	11.00	6.50	11.00	26.0791	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	8/22/2019	10.80	6.50	10.80	26.0791	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	12/2/2019	10.80	6.50	10.80	26.0791	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	2/28/2020	10.50	6.50	10.50	26.0791	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	3/30/2020	8.99	6.50	8.99	26.0791	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	11/17/2020	8.11	6.50	8.11	26.0791	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	5/6/2021	7.39	6.50	7.39	26.0791	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	4/6/2022	<4.0	6.50	<4.0	26.0791	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	8/23/2022	<4.0	6.50	<4.0	26.0791	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	3/8/2023	5.69	6.50	5.69	26.0791	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	9/13/2023	<4.0	6.50	<4.0	26.0791	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	5/29/2024	135.00	6.50	135.00	26.0791	2.770	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	10/15/2024	145.00	6.50	145.00	26.0791	0.000	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	4/16/2025	<5.0	6.50	<5.0	26.0791	0.000	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	10/27/2025	<5.0	6.50	<5.0	26.0791	0.000	100	5/29/2024	NA	12/2/2019

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Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Selenium	11/27/2018	<4.0	4.0	<4.0	93.59	--	50	NA	NA	12/2/2019
MW-38R	Selenium	3/18/2019	<4.0	4.0	<4.0	93.59	--	50	NA	NA	12/2/2019
MW-38R	Selenium	6/5/2019	<4.0	4.0	<4.0	93.59	--	50	NA	NA	12/2/2019
MW-38R	Selenium	8/22/2019	<4.0	4.0	<4.0	93.59	--	50	NA	NA	12/2/2019
MW-38R	Selenium	12/2/2019	<4.0	4.0	<4.0	93.59	--	50	NA	NA	12/2/2019
MW-38R	Selenium	2/28/2020	<4.0	4.0	<4.0	93.59	--	50	NA	NA	12/2/2019
MW-38R	Selenium	3/30/2020	<4.0	4.0	<4.0	93.59	--	50	NA	NA	12/2/2019
MW-38R	Selenium	11/17/2020	<4.0	4.0	<4.0	93.59	--	50	NA	NA	12/2/2019
MW-38R	Selenium	5/6/2021	<4.0	4.0	<4.0	93.59	--	50	NA	NA	12/2/2019
MW-38R	Selenium	4/6/2022	13.60	4.0	13.60	93.59	--	50	NA	NA	12/2/2019
MW-38R	Selenium	8/23/2022	10.30	4.0	10.30	93.59	--	50	NA	NA	12/2/2019
MW-38R	Selenium	3/8/2023	29.10	4.0	29.10	93.59	--	50	NA	NA	12/2/2019
MW-38R	Selenium	9/13/2023	26.40	4.0	26.40	93.59	--	50	NA	NA	12/2/2019
MW-38R	Selenium	5/29/2024	43.20	4.0	43.20	93.59	0.000	50	NA	NA	12/2/2019
MW-38R	Selenium	10/15/2024	7.80	4.0	7.80	93.59	9.508	50	NA	NA	12/2/2019
MW-38R	Selenium	4/16/2025	<4.0	4.0	<4.0	93.59	0.000	50	NA	NA	12/2/2019
MW-38R	Selenium	10/27/2025	5.60	4.0	5.60	93.59	0.000	50	NA	NA	12/2/2019

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Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Vanadium	11/27/2018	<20.0	5.2	<20.0	1.54	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	3/18/2019	<20.0	5.2	<20.0	1.54	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	6/5/2019	<20.0	5.2	<20.0	1.54	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	8/22/2019	<20.0	5.2	<20.0	1.54	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	12/2/2019	<20.0	5.2	<20.0	1.54	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	2/28/2020	<20.0	5.2	<20.0	1.54	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	3/30/2020	<20.0	5.2	<20.0	1.54	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	11/17/2020	<20.0	5.2	<20.0	1.54	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	5/6/2021	<20.0	5.2	<20.0	1.54	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	4/6/2022	<20.0	5.2	<20.0	1.54	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	8/23/2022	<20.0	5.2	<20.0	1.54	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	3/8/2023	<20.0	5.2	<20.0	1.54	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	9/13/2023	<20.0	5.2	<20.0	1.54	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	5/29/2024	<20.0	5.2	<20.0	1.54	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	10/15/2024	59.30	5.2	59.30	1.54	0.000	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	4/16/2025	<2.0	5.2	<2.0	1.54	0.000	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	10/27/2025	3.10	5.2	3.10	1.54	0.000	35	10/15/2024	NA	12/2/2019

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Permit No. 15-SDP-01-75C

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MW-38R	Zinc	11/27/2018	<20.0	185.0	<20.0	20.0	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	3/18/2019	<20.0	185.0	<20.0	20.0	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	6/5/2019	<20.0	185.0	<20.0	20.0	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	8/22/2019	<20.0	185.0	<20.0	20.0	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	12/2/2019	<20.0	185.0	<20.0	20.0	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	2/28/2020	<20.0	185.0	<20.0	20.0	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	3/30/2020	<20.0	185.0	<20.0	20.0	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	11/17/2020	<20.0	185.0	<20.0	20.0	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	5/6/2021	<20.0	185.0	<20.0	20.0	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	4/6/2022	<20.0	185.0	<20.0	20.0	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	8/23/2022	<20.0	185.0	<20.0	20.0	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	3/8/2023	<20.0	185.0	<20.0	20.0	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	9/13/2023	<20.0	185.0	<20.0	20.0	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	5/29/2024	<20.0	185.0	<20.0	20.0	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	10/15/2024	44.00	185.0	44.00	20.0	0.000	2,000	NA	NA	12/2/2019
MW-38R	Zinc	4/16/2025	<5.0	185.0	<5.0	20.0	0.000	2,000	NA	NA	12/2/2019
MW-38R	Zinc	10/27/2025	<5.0	185.0	<5.0	20.0	0.000	2,000	NA	NA	12/2/2019

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

KEY: Interwell SSI

Intrawell SSI

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

SSL LCL>GWPS

Note that Doc # 97998 and Doc # 98498 established that the landfill is not the source of selenium at MW-39.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-39	Selenium	2/15/2016	74.90	4.0	74.90	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	10/31/20216	70.40	4.0	70.40	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	3/27/2017	77.20	4.0	77.20	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	11/13/2017	71.85	4.0	71.85	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	6/6/2018	74.50	4.0	74.50	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	11/27/2018	76.00	4.0	76.00	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	3/18/2019	76.40	4.0	76.40	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	12/2/2019	74.80	4.0	74.80	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	3/30/2020	73.10	4.0	73.10	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	11/17/2020	71.30	4.0	71.30	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	5/6/2021	80.10	4.0	80.10	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	10/7/2021	74.60	4.0	74.60	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	4/6/2022	79.10	4.0	79.10	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	8/23/2022	79.90	4.0	79.90	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	3/8/2023	79.40	4.0	79.40	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	9/13/2023	75.05	4.0	75.05	193.27	--	50	NA	NA	6/6/2018
MW-39	Selenium	5/29/2024	71.40	4.0	71.40	193.27	71.300	50	NA	NA	6/6/2018
MW-39	Selenium	10/15/2024	63.60	4.0	63.60	193.27	64.488	50	NA	NA	6/6/2018
MW-39	Selenium	4/16/2025	71.50	4.0	71.50	193.27	64.703	50	NA	NA	6/6/2018
MW-39	Selenium	10/27/2025	71.50	4.0	71.50	193.27	64.873	50	NA	NA	6/6/2018

Table 7

KEY:

Interwell SSI

Intrawell SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI

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

Annual Water Quality Report

Cass County Sanitary Landfill

Permit No. 15-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-43	Nickel	4/6/2022	<3.11	6.50	<3.11	20.0500	--	100	10/27/2025	NA	5/29/2024
MW-43	Nickel	8/23/2022	5.23	6.50	5.23	20.0500	--	100	10/27/2025	NA	5/29/2024
MW-43	Nickel	3/8/2023	<2.91	6.50	<2.91	20.0500	--	100	10/27/2025	NA	5/29/2024
MW-43	Nickel	9/13/2023	5.90	6.50	5.90	20.0500	--	100	10/27/2025	NA	5/29/2024
MW-43	Nickel	5/29/2024	<2.77	6.50	<2.77	20.0500	--	100	10/27/2025	NA	5/29/2024
MW-43	Nickel	10/15/2024	4.50	6.50	4.50	20.0500	--	100	10/27/2025	NA	5/29/2024
MW-43	Nickel	4/16/2025	6.40	6.50	6.40	20.0500	1.949	100	10/27/2025	NA	5/29/2024
MW-43	Nickel	10/27/2025	9.60	6.50	9.60	20.0500	1.472	100	10/27/2025	NA	5/29/2024
MW-43	Nickel	12/5/2025	8.70	6.50	8.70	20.0500	1.472	100	10/27/2025	NA	5/29/2024

Table 8 - Summary of Ongoing and Newly Identified SS - **(Not Required)**

Table 9 – Analytical Data Summary

Table 9

Analytical Data Summary for MW-11

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	10/21/2009
1,1,1,2-Tetrachloroethane	ug/L	<.33	<.33	<.33	<1.00	<1.00	<1.00	<1.00	
1,1,1-Trichloroethane	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	
1,1,2,2-Tetrachloroethane	ug/L	<.23	<.23	<.23	<1.00	<1.00	<1.00	<1.00	
1,1,2-Trichloroethane	ug/L	<.37	<.37	<.37	<1.00	<1.00	<1.00	<1.00	
1,1-Dichloroethane	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	
1,1-Dichloroethene	ug/L	<.37	<.37	<.37	<2.00	<2.00	<2.00	<2.00	
1,1-Dichloropropene	ug/L							<1	
1,2,3-Trichloropropane	ug/L	<.7	<.7	<.7	<1.0	<1.0	<1.0	<1.0	
1,2,4,5-Tetrachlorobenzene	ug/L							<10.0	
1,2,4-Trichlorobenzene	ug/L							<5	
1,2-Dibromo-3-Chloropropane	ug/L	<.860	<.860	<.860	<.860	<.860	<.860	<10.000	
1,2-Dibromoethane	ug/L	<.250	<.250	<.250	<.250	<.250	<.250	<10.000	
1,2-Dichlorobenzene	ug/L	<.21	<.21	<.21	<1.00	<1.00	<1.00	<1.00	
1,2-Dichloroethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<1.0	
1,2-Dichloropropane	ug/L	<.4	<.4	<.4	<1.0	<1.0	<1.0	<1.0	
1,3,5-Trinitrobenzene	ug/L							<10.0	
1,3-Dichlorobenzene	ug/L							<1	
1,3-Dichloropropane	ug/L							<1	
1,3-Dinitrobenzene	ug/L							<10.0	
1,4-Dichlorobenzene	ug/L	<1.00	<1.00	<.16	<1.00	<1.00	<1.00	<1.00	
1,4-Naphthoquinone	ug/L							<10.0	
1,4-Phenylenediamine	ug/L							<10.0	
1-Naphthylamine	ug/L							<10.0	
2,2-Dichloropropane	ug/L							<4	
2,3,4,6-Tetrachlorophenol	ug/L							<10.0	
2,4,5-T [2C]	ug/L							<.22	
2,4,5-TP [Silvex] [2C]	ug/L							<.22	
2,4,5-Trichlorophenol	ug/L							<10.0	
2,4,6-Trichlorophenol	ug/L							<10.0	
2,4-D [2C]	ug/L							<1.10	
2,4-Dichlorophenol	ug/L							<10.0	
2,4-Dimethylphenol	ug/L							<10.0	
2,4-Dinitrophenol	ug/L							<20.0	
2,4-Dinitrotoluene	ug/L							<10.0	
2,6-Dichlorophenol	ug/L							<10.0	
2,6-Dinitrotoluene	ug/L							<10.0	
2-Acetylaminofluorene	ug/L							<10.0	
2-Butanone	ug/L	<.91	<.91	<.91	<10.00	<10.00	<10.00	<10.00	
2-Chloronaphthalene	ug/L							<10.0	
2-Chlorophenol	ug/L							<10.0	
2-Hexanone	ug/L	<1.76	<1.76	<1.76	<10.00	<10.00	<10.00	<10.00	
2-Methylnaphthalene	ug/L							<10.0	
2-Methylphenol	ug/L							<10.0	
2-Naphthylamine	ug/L							<10.0	
2-Nitroaniline	ug/L							<10.0	
2-Nitrophenol	ug/L							<10.0	
3,3-Dichlorobenzidine	ug/L							<10.0	
3,3-Dimethylbenzidine	ug/L							<10.0	
3/4-Methylphenol	ug/L							<10.0	
3-Chloropropene	ug/L							<2	
3-Methylcholanthrene	ug/L							<10.0	
3-Nitroaniline	ug/L							<10.0	
4,4'-DDD	ug/L							<.0320	
4,4'-DDE	ug/L							<.0320	
4,4'-DDT	ug/L							<.0320	
4,6-Dinitro-2-methylphenol	ug/L							<10.0	
4-Aminobiphenyl	ug/L							<10.0	
4-Bromophenyl phenyl ether	ug/L							<10.0	
4-Chloro-3-methylphenol	ug/L							<10.0	
4-Chloroaniline	ug/L							<10.0	
4-Chlorophenyl phenyl ether	ug/L							<10.0	
4-Methyl-2-Pentanone	ug/L	<.31	<.31	<.31	<10.00	<10.00	<10.00	<10.00	
4-Nitroaniline	ug/L							<10.0	
4-Nitrophenol	ug/L							<10.0	
5-Nitro-o-toluidine	ug/L							<10.0	
7,12-Dimethylbenz [a] anthracene	ug/L							<10.0	
Acenaphthene	ug/L							<10.0	
Acenaphthylene	ug/L							<10.0	
Acetone	ug/L	<4.62	<4.62	<4.62	<10.00	<10.00	<10.00	<10.00	
Acetonitrile	ug/L							<10000	
Acetophenone	ug/L							<10.0	
Acrolein	ug/L							<10	
Acrylonitrile	ug/L	<1.28	<1.28	<1.28	<10.00	<10.00	<10.00	<10.00	
Aldrin	ug/L							<.0320	
alpha-BHC	ug/L							<.0320	
Anthracene	ug/L							<10.0	
Antimony	ug/L	<6	<6	<6	<6	<6	<6	<6	<6

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

Table 9

Analytical Data Summary for MW-11

Constituents	3/11/2010	8/31/2010	2/16/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013
1,1,1,2-Tetrachloroethane	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,1,1-Trichloroethane	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00		<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<1.00	<2.00	<2.00		<2.00
1,1-Dichloropropene		<1		<1					
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
1,2,4,5-Tetrachlorobenzene		<10.0		<10.0					
1,2,4-Trichlorobenzene		<5		<5					
1,2-Dibromo-3-Chloropropane	<.498	<10.000	<.120	<.120	<.200	<.120	<.120		<.120
1,2-Dibromoethane	<.255	<10.000	<.130	<.130	<.050	<.130	<.130		<.130
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
1,3,5-Trinitrobenzene		<10.0		<10.0					
1,3-Dichlorobenzene		<1		<1					
1,3-Dichloropropane		<1		<1					
1,3-Dinitrobenzene		<10.0		<10.0					
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00 *
1,4-Naphthoquinone		<10.0		<10.0					
1,4-Phenylenediamine		<10.0		<10.0					
1-Naphthylamine		<10.0		<10.0					
2,2-Dichloropropane		<4		<4					
2,3,4,6-Tetrachlorophenol		<10.0		<10.0					
2,4,5-T [2C]		<.50		<1.00					
2,4,5-TP [Silvex] [2C]		<.50		<1.00					
2,4,5-Trichlorophenol		<10.0		<10.0					
2,4,6-Trichlorophenol		<10.0		<10.0					
2,4-D [2C]		<1.00		<1.00					
2,4-Dichlorophenol		<10.0		<10.0					
2,4-Dimethylphenol		<10.0		<10.0					
2,4-Dinitrophenol		<20.0		<20.0					
2,4-Dinitrotoluene		<10.0		<10.0					
2,6-Dichlorophenol		<10.0		<10.0					
2,6-Dinitrotoluene		<10.0		<10.0					
2-Acetylaminofluorene		<10.0		<10.0					
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00		<10.00
2-Chloronaphthalene		<10.0		<10.0					
2-Chlorophenol		<10.0		<10.0					
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00		<10.00
2-Methylnaphthalene		<10.0		<10.0					
2-Methylphenol		<10.0		<10.0					
2-Naphthylamine		<10.0		<10.0					
2-Nitroaniline		<10.0		<10.0					
2-Nitrophenol		<10.0		<10.0					
3,3-Dichlorobenzidine		<10.0		<10.0					
3,3-Dimethylbenzidine		<10.0		<10.0					
3/4-Methylphenol		<10.0		<10.0					
3-Chloropropene		<2		<2					
3-Methylcholanthrene		<10.0		<10.0					
3-Nitroaniline		<10.0		<10.0					
4,4'-DDD		<.0320		<.0320					
4,4'-DDE		<.0320		<.0320					
4,4'-DDT		<.0320		<.0320					
4,6-Dinitro-2-methylphenol		<10.0		<10.0					
4-Aminobiphenyl		<10.0		<10.0					
4-Bromophenyl phenyl ether		<10.0		<10.0					
4-Chloro-3-methylphenol		<10.0		<10.0					
4-Chloroaniline		<10.0		<10.0					
4-Chlorophenyl phenyl ether		<10.0		<10.0					
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00		<10.00
4-Nitroaniline		<10.0		<10.0					
4-Nitrophenol		<10.0		<10.0					
5-Nitro-o-toluidine		<10.0		<10.0					
7,12-Dimethylbenz [a] anthracene		<10.0		<10.0					
Acenaphthene		<10.0		<10.0					
Acenaphthylene		<10.0		<10.0					
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00		<10.00
Acetonitrile		<10000		<10000					
Acetophenone		<10.0		<10.0					
Acrolein		<10		<10					
Acrylonitrile	<10.00	<10.00	<10.00	<10.00	<5.00	<10.00	<10.00		<10.00
Aldrin		<.0320		<.0320					
alpha-BHC		<.0320		<.0320					
Anthracene		<10.0		<10.0					
Antimony	<6	<6	<6	<6	<6	<6	<6		<4 *

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

Table 9

Analytical Data Summary for MW-11

Constituents	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene					<1				
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene					<10.5				
1,2,4-Trichlorobenzene					<5				
1,2-Dibromo-3-Chloropropane	<.120	<.120	<.500	<.500	<.500	<.500	<.500	<.500	<.500
1,2-Dibromoethane	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.130
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene					<10.5				
1,3-Dichlorobenzene					<1				
1,3-Dichloropropane					<1				
1,3-Dinitrobenzene					<10.5				
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone					<10.5				
1,4-Phenylenediamine					<10.5				
1-Naphthylamine					<10.5				
2,2-Dichloropropane					<4				
2,3,4,6-Tetrachlorophenol					<10.5				
2,4,5-T [2C]					<1.12				
2,4,5-TP [Silvex] [2C]					<1.12				
2,4,5-Trichlorophenol					<10.5				
2,4,6-Trichlorophenol					<10.5				
2,4-D [2C]					<1.12				
2,4-Dichlorophenol					<10.5				
2,4-Dimethylphenol					<10.5				
2,4-Dinitrophenol					<21.1				
2,4-Dinitrotoluene					<10.5				
2,6-Dichlorophenol					<10.5				
2,6-Dinitrotoluene					<10.5				
2-Acetylaminofluorene					<10.5				
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene					<10.5				
2-Chlorophenol					<10.5				
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene					<10.5				
2-Methylphenol					<10.5				
2-Naphthylamine					<10.5				
2-Nitroaniline					<10.5				
2-Nitrophenol					<10.5				
3,3-Dichlorobenzidine					<52.6				
3,3-Dimethylbenzidine					<10.5				
3/4-Methylphenol					<10.5				
3-Chloropropene					<2				
3-Methylcholanthrene					<10.5				
3-Nitroaniline					<10.5				
4,4'-DDD					<.0333				
4,4'-DDE					<.0333				
4,4'-DDT					<.0333				
4,6-Dinitro-2-methylphenol					<10.5				
4-Aminobiphenyl					<10.5				
4-Bromophenyl phenyl ether					<10.5				
4-Chloro-3-methylphenol					<.1				
4-Chloroaniline					<10.5				
4-Chlorophenyl phenyl ether					<10.5				
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline					<10.5				
4-Nitrophenol					<10.5				
5-Nitro-o-toluidine					<10.5				
7,12-Dimethylbenz [a] anthracene					<10.5				
Acenaphthene					<10.5				
Acenaphthylene					<10.5				
Acetone	<10.00	<10.00	16.50	<10.00	<10.00	<10.00	<10.00 *	<10.00	<10.00
Acetonitrile					<10000				
Acetophenone					<10.5				
Acrolein					<10				
Acrylonitrile	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Aldrin					<.0333				
alpha-BHC					<.0333				
Anthracene					<10.5				
Antimony	<6	<6	<6	<1	<1	<1	<1	<1	<3

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

Table 9

Analytical Data Summary for MW-11

Constituents	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene						<1			
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene						<10.8			
1,2,4-Trichlorobenzene						<5			
1,2-Dibromo-3-Chloropropane	<.500	<1.200	<1.200	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.130	<.340	<.340	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene						<10.8			
1,3-Dichlorobenzene						<1			
1,3-Dichloropropane						<1			
1,3-Dinitrobenzene						<10.8			
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone						<10.8			
1,4-Phenylenediamine						<10.8			
1-Naphthylamine						<10.8			
2,2-Dichloropropane						<4			
2,3,4,6-Tetrachlorophenol						<10.8			
2,4,5-T [2C]						<1.08			
2,4,5-TP [Silvex] [2C]						<1.08			
2,4,5-Trichlorophenol						<10.8			
2,4,6-Trichlorophenol						<10.8			
2,4-D [2C]						<1.08			
2,4-Dichlorophenol						<10.8			
2,4-Dimethylphenol						<10.8			
2,4-Dinitrophenol						<21.5			
2,4-Dinitrotoluene						<10.8			
2,6-Dichlorophenol						<10.8			
2,6-Dinitrotoluene						<10.8			
2-Acetylaminofluorene						<10.8			
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene						<10.8			
2-Chlorophenol						<10.8			
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene						<10.8			
2-Methylphenol						<10.8			
2-Naphthylamine						<10.8			
2-Nitroaniline						<10.8			
2-Nitrophenol						<10.8			
3,3-Dichlorobenzidine						<10.8			
3,3-Dimethylbenzidine						<10.8			
3/4-Methylphenol						<10.8			
3-Chloropropene						<2			
3-Methylcholanthrene						<10.8			
3-Nitroaniline						<10.8			
4,4'-DDD						<.0352			
4,4'-DDE						<.0352			
4,4'-DDT						<.0352			
4,6-Dinitro-2-methylphenol						<10.8			
4-Aminobiphenyl						<10.8			
4-Bromophenyl phenyl ether						<10.8			
4-Chloro-3-methylphenol						<10.8			
4-Chloroaniline						<10.8			
4-Chlorophenyl phenyl ether						<10.8			
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline						<10.8			
4-Nitrophenol						<10.8			
5-Nitro-o-toluidine						<10.8			
7,12-Dimethylbenz [a] anthracene						<10.8			
Acenaphthene						<10.8			
Acenaphthylene						<10.8			
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile						<10000			
Acetophenone						<10.8			
Acrolein						<10			
Acrylonitrile	<10.00	<10.00	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin						<.0352			
alpha-BHC						<.0352			
Anthracene						<10.8			
Antimony	<1	<1	<1	<1	<1	<2	<2	<2	<2

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

Table 9

Analytical Data Summary for MW-11

Constituents	3/8/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025	7/14/2025	10/27/2025
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<1.00	<1.00		<1.00
1,1-Dichloropropene							
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
1,2,4,5-Tetrachlorobenzene							
1,2,4-Trichlorobenzene							
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000	<5.000	<5.000		<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
1,3,5-Trinitrobenzene							
1,3-Dichlorobenzene							
1,3-Dichloropropane							
1,3-Dinitrobenzene							
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,4-Naphthoquinone							
1,4-Phenylenediamine							
1-Naphthylamine							
2,2-Dichloropropane							
2,3,4,6-Tetrachlorophenol							
2,4,5-T [2C]							
2,4,5-TP [Silvex] [2C]							
2,4,5-Trichlorophenol							
2,4,6-Trichlorophenol							
2,4-D [2C]							
2,4-Dichlorophenol							
2,4-Dimethylphenol							
2,4-Dinitrophenol							
2,4-Dinitrotoluene							
2,6-Dichlorophenol							
2,6-Dinitrotoluene							
2-Acetylaminofluorene							
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00		<10.00
2-Chloronaphthalene							
2-Chlorophenol							
2-Hexanone	<10.00	<10.00	<10.00	<5.00	<5.00		<5.00
2-Methylnaphthalene							
2-Methylphenol							
2-Naphthylamine							
2-Nitroaniline							
2-Nitrophenol							
3,3-Dichlorobenzidine							
3,3-Dimethylbenzidine							
3/4-Methylphenol							
3-Chloropropene							
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	<10.00	<10.00	<10.00	<5.00	<5.00		<5.00
4-Nitroaniline							
4-Nitrophenol							
5-Nitro-o-toluidine							
7,12-Dimethylbenz [a] anthracene							
Acenaphthene							
Acenaphthylene							
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00		<10.00
Acetonitrile							
Acetophenone							
Acrolein							
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00		<5.00
Aldrin							
alpha-BHC							
Anthracene							
Antimony	<1	<2	<2	<2	<1		<1

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

Table 9

Analytical Data Summary for MW-11

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	10/21/2009
Arsenic	ug/L	3.01	5.43	4.22	2.15	5.60	3.88	3.00	3.97
Barium	ug/L	786	963	915	606	754	1480	471	714
Benzene	ug/L	.29	.18	.34	<.50	<.50	.83	<.50	
Benzo [a] anthracene	ug/L							<10.0	
Benzo [a] pyrene	ug/L							<10.0	
Benzo [b] fluoranthene	ug/L							<10.0	
Benzo [g,h,i] perylene	ug/L							<10.0	
Benzo [k] fluoranthene	ug/L							<10.0	
Benzyl alcohol	ug/L							<10.0	
Beryllium	ug/L	<1.000	<.028	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC	ug/L							<.0320	
Bis[2-chloroethoxy]methane	ug/L							<10.0	
Bis[2-chloroethyl]ether	ug/L							<10.0	
Bis[2-chloroisopropyl]ether	ug/L							<10.0	
Bis[2-ethylhexyl]phthalate	ug/L							<10.0	
Bromochloromethane	ug/L	<.76	<.76	<.76	<5.00	<5.00	<5.00	<5.00	
Bromodichloromethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<1.0	
Bromoform	ug/L	<.43	<.43	<.43	<5.00	<5.00	<5.00	<5.00	
Bromomethane	ug/L	<.48	<.48	<.48	<4.00	<4.00	<4.00	<4.00	
Butyl benzyl phthalate	ug/L							<10.0	
Cadmium	ug/L	.673	2.630	1.350	7.800	2.940	1.120	1.030	1.120
Carbon Disulfide	ug/L	<.18	<.18	<.18	<1.00	<1.00	<1.00	<1.00	
Carbon Tetrachloride	ug/L	<.31	<.31	<.31	<2.00	<2.00	<2.00	<2.00	
Chlordane	ug/L							<2.00	
Chlorobenzene	ug/L	.380	.210	<.170	<1.000	<1.000	<1.000	<1.000	
Chlorobenzilate	ug/L							<10.0	
Chlorodibromomethane	ug/L	.30	<.26	<.26	<5.00	<5.00	<5.00	<5.00	
Chloroethane	ug/L	<.5	<.5	<.5	<4.0	<4.0	<4.0	<4.0	
Chloroform	ug/L	<.17	<.17	<.17	<1.00	<2.50	<1.00	<1.00	
Chloromethane	ug/L	<.2	<.2	<.2	<3.0	<3.0	<3.0	<3.0	
Chloroprene	ug/L							<1	
Chromium	ug/L	<20.00	<1.73	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Chrysene	ug/L							<10.0	
cis-1,2-Dichloroethene	ug/L	1.120	<.370	1.360	<1.000	1.280	2.360	<1.000	
cis-1,3-Dichloropropene	ug/L	<.23	<.23	<.23	<5.00	<5.00	<5.00	<5.00	
Cobalt	ug/L	<20.00	<1.40	20.40	<20.00	<20.00	36.10	<20.00	<20.00
Copper	ug/L	<20.00	20.10	28.30	<20.00	<20.00	20.80	<20.00	<20.00
Cyanide	mg/L							<.010	
delta-BHC	ug/L							<.0320	
Diallate [cis or trans]	ug/L							<10.0	
Dibenz [a,h] anthracene	ug/L							<10.0	
Dibenzofuran	ug/L							<10.0	
Dichlorodifluoromethane	ug/L							<3	
Dieldrin	ug/L							<.0320	
Diethyl phthalate	ug/L							<10.0	
Dimethoate	ug/L							<10.0	
Dimethyl phthalate	ug/L							<10.0	
Dimethylaminoazobenzene	ug/L							<10.0	
Di-n-butyl phthalate	ug/L							<10.0	
Di-n-octyl phthalate	ug/L							<10.0	
Dinoseb	ug/L							<10.0	
Diphenylamine	ug/L							<10.0	
Disulfoton	ug/L							<10.0	
Endosulfan I	ug/L							<.0320	
Endosulfan II	ug/L							<.0320	
Endosulfan sulfate	ug/L							<.0320	
Endrin	ug/L							<.0320	
Endrin aldehyde	ug/L							<.0320	
Ethyl Methacrylate	ug/L							<2	
Ethyl Methanesulfonate	ug/L							<10.0	
Ethylbenzene	ug/L	<.25	<.25	<.25	<1.00	<1.00	<1.00	<1.00	
Famphur	ug/L							<20.0	
Fluoranthene	ug/L							<10.0	
Fluorene	ug/L							<10.0	
gamma-BHC [Lindane]	ug/L							<.0320	
Heptachlor	ug/L							<.0320	
Heptachlor Epoxide	ug/L							<.0320	
Hexachlorobenzene	ug/L							<10.0	
Hexachlorobutadiene	ug/L							<10.0	
Hexachlorocyclopentadiene	ug/L							<10.0	
Hexachloroethane	ug/L							<10.0	
Hexachloropropene	ug/L							<10.0	
Indeno [1,2,3-cd] pyrene	ug/L							<10.0	
Iodomethane	ug/L	<.4	<.4	<.4	<10.0	<10.0	<10.0	<10.0	
Isobutanol	ug/L							<10000	
Isodrin	ug/L							<10.0	
Isophorone	ug/L							<10.0	

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

Table 9

Analytical Data Summary for MW-11

Constituents	3/11/2010	8/31/2010	2/16/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013
Arsenic	1.09	<1.00	<1.00	3.88	10.20	3.54	4.12		17.25 *
Barium	347	148	332	351	423	330	468		535 *
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50		<1.00 *
Benzo [a] anthracene		<10.0		<10.0					
Benzo [a] pyrene		<10.0		<10.0					
Benzo [b] fluoranthene		<10.0		<10.0					
Benzo [g,h,i] perylene		<10.0		<10.0					
Benzo [k] fluoranthene		<10.0		<10.0					
Benzyl alcohol		<10.0		<10.0					
Beryllium	<1.000	<1.000	<1.000	<1.000	<4.000	<1.000	<1.000		<1.000
beta-BHC		<.0320		<.0320					
Bis[2-chloroethoxy]methane		<10.0		<10.0					
Bis[2-chloroethyl]ether		<10.0		<10.0					
Bis[2-chloroisopropyl]ether		<10.0		<10.0					
Bis[2-ethylhexyl]phthalate		<10.0		<10.0					
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00		<5.00
Bromodichloromethane	<5.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0		<1.0
Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00		<3.00 *
Bromomethane	<4.00	<4.00	<4.00	<20.00	<50.00	<5.00	<4.00		<4.00
Butyl benzyl phthalate		<10.0		<10.0					
Cadmium	7.060	3.350	3.470	1.970	<.800	1.110	.828		1.525 *
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Carbon Tetrachloride	<10.00	<4.00	<2.00	<2.00	<2.00	<2.00	<2.00		<2.00
Chlordane		<2.00		<2.00					
Chlorobenzene	<5.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000 *
Chlorobenzilate		<10.0		<10.0					
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00		<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00		<1.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0
Chloroprene		<1		<1					
Chromium	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00		<2.50 *
Chrysene		<10.0		<10.0					
cis-1,2-Dichloroethene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000		1.125 *
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00		<5.00
Cobalt	17.20	5.07	25.30	47.80	42.40	31.50	67.40		60.85 *
Copper	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00		<20.00
Cyanide		<.010		<.010					
delta-BHC		<.0320		<.0320					
Diallate [cis or trans]		<10.0		<10.0					
Dibenz [a,h] anthracene		<10.0		<10.0					
Dibenzofuran		<10.0		<10.0					
Dichlorodifluoromethane		<3		<3					
Dieldrin		<.0320		<.0320					
Diethyl phthalate		<10.0		<10.0					
Dimethoate		<10.0		<10.0					
Dimethyl phthalate		<10.0		<10.0					
Dimethylaminoazobenzene		<10.0		<10.0					
Di-n-butyl phthalate		<10.0		<10.0					
Di-n-octyl phthalate		<10.0		<10.0					
Dinoseb		<10.0		<10.0					
Diphenylamine		<10.0		<10.0					
Disulfoton		<10.0		<10.0					
Endosulfan I		<.0320		<.0320					
Endosulfan II		<.0320		<.0320					
Endosulfan sulfate		<.0320		<.0320					
Endrin		<.0320		<.0320					
Endrin aldehyde		<.0320		<.0320					
Ethyl Methacrylate		<2		<2					
Ethyl Methanesulfonate		<10.0		<10.0					
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Famphur		<20.0		<20.0					
Fluoranthene		<10.0		<10.0					
Fluorene		<10.0		<10.0					
gamma-BHC [Lindane]		<.0320		<.0320					
Heptachlor		<.0320		<.0320					
Heptachlor Epoxide		<.0320		<.0320					
Hexachlorobenzene		<10.0		<10.0					
Hexachlorobutadiene		<10.0		<10.0					
Hexachlorocyclopentadiene		<10.0		<10.0					
Hexachloroethane		<10.0		<10.0					
Hexachloropropene		<10.0		<10.0					
Indeno [1,2,3-cd] pyrene		<10.0		<10.0					
Iodomethane	<10.0	<10.0	<10.0	<20.0	<10.0	<10.0	<10.0		<10.0
Isobutanol		<10000		<10000					
Isodrin		<10.0		<10.0					
Isophorone		<10.0		<10.0					

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

Table 9

Analytical Data Summary for MW-11

Constituents	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018
Arsenic	7.13	4.56	5.25	3.38	3.02	3.14	3.70 *	2.82	3.07
Barium	605	561	582	529	510	514	529 *	448	434
Benzene	<1.00	<.20	<1.00	<1.00	<1.00	<1.00	<1.00 *	<1.00	<.50
Benzo [a] anthracene					<10.5				
Benzo [a] pyrene					<10.5				
Benzo [b] fluoranthene					<10.5				
Benzo [g,h,i] perylene					<10.5				
Benzo [k] fluoranthene					<10.5				
Benzyl alcohol					<10.5				
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC					<.0333				
Bis[2-chloroethoxy]methane					<10.5				
Bis[2-chloroethyl]ether					<10.5				
Bis[2-chloroisopropyl]ether					<10.5				
Bis[2-ethylhexyl]phthalate					<5.0				
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	<4.00	<4.00	<4.00	<1.00	<1.00	<4.00	<4.00	<4.00	<4.00
Butyl benzyl phthalate					<10.5				
Cadmium	.969	.973	.984	<1.000	<.500	<1.000	<.500	<.500	.607
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlordane					<2.08				
Chlorobenzene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000 *	<1.000	<1.000
Chlorobenzilate					<10.5				
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chloroprene					<1				
Chromium	<20.00	<20.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<4.00
Chrysene					<10.5				
cis-1,2-Dichloroethene	1.240	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000 *	1.020	<1.000
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	71.10	44.10	54.50	20.90	17.60	8.37	8.72 *	5.64	5.51
Copper	<20.00	<20.00	2.62	<2.00	<2.00	<5.00	<5.00	<5.00	<2.00
Cyanide					<.005				
delta-BHC					<.0333				
Diallate [cis or trans]					<10.5				
Dibenz [a,h] anthracene					<10.5				
Dibenzofuran					<10.5				
Dichlorodifluoromethane					<3				
Dieldrin					<.0030				
Diethyl phthalate					<10.5				
Dimethoate					<10.5				
Dimethyl phthalate					<10.5				
Dimethylaminoazobenzene					<10.5				
Di-n-butyl phthalate					<1.0				
Di-n-octyl phthalate					<5.0				
Dinoseb					<10.5				
Diphenylamine					<10.5				
Disulfoton					<10.5				
Endosulfan I					<.0040				
Endosulfan II					<.0333				
Endosulfan sulfate					<.0040				
Endrin					<.0100				
Endrin aldehyde					<.0100				
Ethyl Methacrylate					<2				
Ethyl Methanesulfonate					<10.5				
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur					<21.1				
Fluoranthene					<10.5				
Fluorene					<10.5				
gamma-BHC [Lindane]					<.0040				
Heptachlor					<.0100				
Heptachlor Epoxide					<.0333				
Hexachlorobenzene					<10.5				
Hexachlorobutadiene					<10.5				
Hexachlorocyclopentadiene					<21.1				
Hexachloroethane					<10.5				
Hexachloropropene					<10.5				
Indeno [1,2,3-cd] pyrene					<10.5				
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol					<10000				
Isodrin					<10.5				
Isophorone					<10.5				

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

Table 9

Analytical Data Summary for MW-11

Constituents	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022
Arsenic	3.74	2.51	2.19	2.13	3.91 *	2.83	11.00	7.53 *	2.30
Barium	462	456	410	416	397 *	465	571	544 *	419
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene						<10.8			
Benzo [a] pyrene						<10.8			
Benzo [b] fluoranthene						<10.8			
Benzo [g,h,i] perylene						<10.8			
Benzo [k] fluoranthene						<10.8			
Benzyl alcohol						<10.8			
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC						<.0352			
Bis[2-chloroethoxy]methane						<10.8			
Bis[2-chloroethyl]ether						<10.8			
Bis[2-chloroisopropyl]ether						<10.8			
Bis[2-ethylhexyl]phthalate						<10.8			
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Butyl benzyl phthalate						<10.8			
Cadmium	<1.000	<1.000	<1.00	<1.000	<1.000 *	<.100	<.100	<.100	.116
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlordane						<2.20			
Chlorobenzene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.440 *	<1.000
Chlorobenzilate						<10.8			
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chloroprene						<1			
Chromium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chrysene						<10.8			
cis-1,2-Dichloroethene	<1.000	<1.000	<1.000	<1.000	<1.000 *	<.503	<.373	<.378 *	<1.000
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	4.58	4.10	3.54	3.29	9.93 *	9.32	14.80	10.70	6.19
Copper	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<2.01
Cyanide						<.010			
delta-BHC						<.0352			
Diallate [cis or trans]						<10.8			
Dibenz [a,h] anthracene						<10.8			
Dibenzofuran						<10.8			
Dichlorodifluoromethane						<3			
Dieldrin						<.0352			
Diethyl phthalate						<10.8			
Dimethoate						<10.8			
Dimethyl phthalate						<10.8			
Dimethylaminoazobenzene						<10.8			
Di-n-butyl phthalate						<10.8			
Di-n-octyl phthalate						<21.5			
Dinoseb						<10.8			
Diphenylamine						<10.8			
Disulfoton						<10.8			
Endosulfan I						<.0352			
Endosulfan II						<.0352			
Endosulfan sulfate						<.0352			
Endrin						<.0352			
Endrin aldehyde						<.0352			
Ethyl Methacrylate						<2			
Ethyl Methanesulfonate						<10.8			
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur						<10.8			
Fluoranthene						<10.8			
Fluorene						<10.8			
gamma-BHC [Lindane]						<.0352			
Heptachlor						<.0352			
Heptachlor Epoxide						<.0352			
Hexachlorobenzene						<10.8			
Hexachlorobutadiene						<10.8			
Hexachlorocyclopentadiene						<10.8			
Hexachloroethane						<10.8			
Hexachloropropene						<10.8			
Indeno [1,2,3-cd] pyrene						<10.8			
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol						<10000			
Isodrin						<10.8			
Isophorone						<10.8			

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

Table 9

Analytical Data Summary for MW-11

Constituents	3/8/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025	7/14/2025	10/27/2025
Arsenic	13.50	14.50	5.17	6.60	17.70		<2.00
Barium	745	636	496	346	608		203
Benzene	<.50	<.50	<.50	<1.00	<1.00		<1.00
Benzo [a] anthracene							
Benzo [a] pyrene							
Benzo [b] fluoranthene							
Benzo [g,h,i] perylene							
Benzo [k] fluoranthene							
Benzyl alcohol							
Beryllium	<.338	<1.000	<1.000	<4.000	<.500		<.500
beta-BHC							
Bis[2-chloroethoxy]methane							
Bis[2-chloroethyl]ether							
Bis[2-chloroisopropyl]ether							
Bis[2-ethylhexyl]phthalate							
Bromochloromethane	<5.00	<5.00	<5.00	<1.00	<1.00		<1.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
Bromoform	<5.00	<5.00	<5.00	<1.00	<1.00		<1.00
Bromomethane	<4.00	<4.00	<4.00	<1.00	<1.00		<1.00
Butyl benzyl phthalate							
Cadmium	.259	.213	<.200	<.800	1.600		.200
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Carbon Tetrachloride	<2.00	<2.00	<2.00	<1.00	<1.00		<1.00
Chlordane							
Chlorobenzene	<.445	<1.000	<1.000	<1.000	<1.000		<1.000
Chlorobenzilate							
Chlorodibromomethane	<5.00	<5.00	<5.00	<1.00	<1.00		<1.00
Chloroethane	<4.0	<4.0	<4.0	<1.0	<1.0		<1.0
Chloroform	<3.00	<3.00	<3.00	<1.00	<1.00		<1.00
Chloromethane	<3.0	<3.0	<3.0	<1.0	<1.0		<1.0
Chloroprene							
Chromium	<5.00	<5.00	<5.00	<8.00	4.50		1.00
Chrysene							
cis-1,2-Dichloroethene	<1.000	<.299	<.477	<1.000	<1.000		<1.000
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<1.00	<1.00		<1.00
Cobalt	13.40	11.30	6.63	3.00	14.20		2.10
Copper	<5.00	<1.81	<2.53	9.70	104.00	41.50	54.90
Cyanide							
delta-BHC							
Diallate [cis or trans]							
Dibenz [a,h] anthracene							
Dibenzofuran							
Dichlorodifluoromethane							
Dieldrin							
Diethyl phthalate							
Dimethoate							
Dimethyl phthalate							
Dimethylaminoazobenzene							
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	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Famphur							
Fluoranthene							
Fluorene							
gamma-BHC [Lindane]							
Heptachlor							
Heptachlor Epoxide							
Hexachlorobenzene							
Hexachlorobutadiene							
Hexachlorocyclopentadiene							
Hexachloroethane							
Hexachloropropene							
Indeno [1,2,3-cd] pyrene							
Iodomethane	<10.0	<10.0	<10.0	<1.0	<1.0		<1.0
Isobutanol							
Isodrin							
Isophorone							

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

Table 9

Analytical Data Summary for MW-11

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	10/21/2009
Isosafrole	ug/L							<10.0	
Kepona	ug/L							<10.0	
Lead	ug/L	<4.000	7.420	4.720	<4.000	<4.000	5.140	<4.000	<4.000
MP-Xylene	ug/L								
Mercury	ug/L							<.2	
Methacrylonitrile	ug/L							<1	
Methapyrilene	ug/L							<10.0	
Methoxychlor	ug/L							<.0320	
Methyl Methacrylate	ug/L							<2	
Methyl Methanesulfonate	ug/L							<10.0	
Methylene Bromide	ug/L	<.3	<.3	<.3	<1.0	<1.0	<1.0	<1.0	
Methylene Chloride	ug/L	<.45	<.45	.50	<5.00	<5.00	<5.00	<5.00	
Naphthalene	ug/L							<5	
Nickel	ug/L	<50.00	<4.60	<50.00	<50.00	<50.00	82.20	<50.00	<50.00
Nitrobenzene	ug/L							<10.0	
N-Nitrosodiethylamine	ug/L							<10.0	
N-Nitrosodimethylamine	ug/L							<10.0	
N-Nitrosodi-n-butylamine	ug/L							<10.0	
N-Nitrosodi-n-propylamine	ug/L							<10.0	
N-Nitrosodiphenylamine	ug/L							<10.0	
N-Nitrosomethylethylamine	ug/L							<10.0	
N-Nitrosopiperidine	ug/L							<10.0	
N-Nitrosopyrrolidine	ug/L							<10.0	
O,O,O-Triethyl Phosphorothioate	ug/L							<10.0	
o-Toluidine	ug/L							<10.0	
o-Xylene	ug/L								
Parathion-Ethyl	ug/L							<10.0	
Parathion-Methyl	ug/L							<10.0	
PCB-1016	ug/L							<.800	
PCB-1221	ug/L							<.800	
PCB-1232	ug/L							<.800	
PCB-1242	ug/L							<.800	
PCB-1248	ug/L							<.800	
PCB-1254	ug/L							<.800	
PCB-1260	ug/L							<.800	
Pentachlorobenzene	ug/L							<10.0	
Pentachloronitrobenzene	ug/L							<10.0	
Pentachlorophenol [2C]	ug/L							<10.0	
Phenacetin	ug/L							<10.0	
Phenanthrene	ug/L							<10.0	
Phenol	ug/L							<10.0	
Phorate	ug/L							<10.0	
Pronamide	ug/L							<10.0	
Propionitrile	ug/L							<10	
Pyrene	ug/L							<10.0	
Safrole	ug/L							<10.0	
Selenium	ug/L	6.72	<1.44	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	ug/L	<20.00	<2.61	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Styrene	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	
Sulfide	mg/L							<1.0	
Tetrachloroethene	ug/L	.76	<.38	<.38	<1.00	<1.00	<1.00	<1.00	
Thallium	ug/L	<2.00	<.70	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Thionazin	ug/L							<10.0	
Tin	ug/L							<100	
Toluene	ug/L	<.140	<.140	<.140	<1.000	<1.000	<1.000	<1.000	
Total Suspended Solids	mg/L								
Toxaphene	ug/L							<2.00	
trans-1,2-Dichloroethene	ug/L	<.31	<.31	<.31	<1.00	<1.00	<1.00	<1.00	
trans-1,3-Dichloropropene	ug/L	<.17	<.17	<.17	<5.00	<5.00	<5.00	<5.00	
trans-1,4-Dichloro-2-Butene	ug/L	<1.8	<1.8	<1.8	<10.0	<10.0	<10.0	<10.0	
Trichloroethene	ug/L	<.24	<.24	<.24	<1.00	<1.00	<1.00	<1.00	
Trichlorofluoromethane	ug/L	<.26	<.26	<.26	<4.00	<4.00	<4.00	<4.00	
Vanadium	ug/L	<50.0	<1.6	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl Acetate	ug/L	<1.36	<1.36	<1.36	<2.50	<2.00	<2.00	<2.00	
Vinyl Chloride	ug/L	.39	<.26	.28	<1.00	<1.00	<1.00	<1.00	
Xylenes, total	ug/L	<.3	<.3	<.3	<3.0	<3.0	<3.0	<3.0	
Zinc	ug/L	<20.0	29.3	121.0	25.4	31.2	56.1	40.5	53.9

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

Table 9

Analytical Data Summary for MW-11

Constituents	3/11/2010	8/31/2010	2/16/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013
Isosafrole		<10.0		<10.0					
Kepona		<10.0		<10.0					
Lead	4.640	<4.000	<4.000	4.680	<4.000	<4.000	<4.000		<3.000 *
MP-Xylene						<2	<2		
Mercury		<.2		<.2					
Methacrylonitrile		<1		<1					
Methapyrilene		<10.0		<10.0					
Methoxychlor		<.0320		<.0320					
Methyl Methacrylate		<2		<2					
Methyl Methanesulfonate		<10.0		<10.0					
Methylene Bromide	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00		<5.00
Naphthalene		<5		<5					
Nickel	<50.00	<50.00	<50.00	<50.00	62.40	<50.00	60.20	54.60	65.85 *
Nitrobenzene		<10.0		<10.0					
N-Nitrosodiethylamine		<10.0		<10.0					
N-Nitrosodimethylamine		<10.0		<10.0					
N-Nitrosodi-n-butylamine		<10.0		<10.0					
N-Nitrosodi-n-propylamine		<10.0		<10.0					
N-Nitrosodiphenylamine		<10.0		<10.0					
N-Nitrosomethylethylamine		<10.0		<10.0					
N-Nitrosopiperidine		<10.0		<10.0					
N-Nitrosopyrrolidine		<10.0		<10.0					
O,O,O-Triethyl Phosphorothioate		<10.0		<10.0					
o-Toluidine		<10.0		<10.0					
o-Xylene						<1	<1		
Parathion-Ethyl		<10.0		<10.0					
Parathion-Methyl		<10.0		<10.0					
PCB-1016		<.800		<.800					
PCB-1221		<.800		<.800					
PCB-1232		<.800		<.800					
PCB-1242		<.800		<.800					
PCB-1248		<.800		<.800					
PCB-1254		<.800		<.800					
PCB-1260		<.800		<.800					
Pentachlorobenzene		<10.0		<10.0					
Pentachloronitrobenzene		<10.0		<10.0					
Pentachlorophenol [2C]		<10.0		<10.0					
Phenacetin		<10.0		<10.0					
Phenanthrene		<10.0		<10.0					
Phenol		<10.0		<10.0					
Phorate		<10.0		<10.0					
Pronamide		<10.0		<10.0					
Propionitrile		<10		<10					
Pyrene		<10.0		<10.0					
Safrole		<10.0		<10.0					
Selenium	<5.00	<5.00	<5.00	<6.00	<5.00	<5.00	<5.00		<5.00
Silver	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00		<20.00
Styrene	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Sulfide		<1.0		<1.0				<1.0	
Tetrachloroethene	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Thallium	<2.00	<2.00	<2.00	<2.00	2.00	<2.00	<2.00		<2.00
Thionazin		<10.0		<10.0					
Tin		<100		<100					
Toluene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000
Total Suspended Solids		<2.00		<2.00					
Toxaphene		<2.00		<2.00					
trans-1,2-Dichloroethene	<50.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00		<5.00
trans-1,4-Dichloro-2-Butene	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0		<10.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00		<4.00
Vanadium	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0		<50.0
Vinyl Acetate	<10.00	<2.00	<4.00	<2.00	<5.00	<2.00	<2.00		<2.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00 *
Xylenes, total	<5.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0
Zinc	75.5	24.9	<20.0	<20.0	<20.0	<20.0	52.7		151.5 *

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

Table 9

Analytical Data Summary for MW-11

Constituents	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018
Isosafrole					<10.5				
Kepona					<10.5				
Lead	<2.000	<4.000	.832	<1.000	<.500	<.500	<.500	<.500	<1.000
MP-Xylene									
Mercury					<.2				
Methacrylonitrile					<10				
Methapyrilene					<10.5				
Methoxychlor					<.0333				
Methyl Methacrylate					<2				
Methyl Methanesulfonate					<10.5				
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<1.00	<1.00	<5.00	<5.00	<5.00
Naphthalene					<5				
Nickel	68.80	54.00	42.30	24.20	20.10	11.00	11.80 *	6.82	8.74
Nitrobenzene					<10.5				
N-Nitrosodiethylamine					<10.5				
N-Nitrosodimethylamine					<10.5				
N-Nitrosodi-n-butylamine					<10.5				
N-Nitrosodi-n-propylamine					<10.5				
N-Nitrosodiphenylamine					<10.5				
N-Nitrosomethylethylamine					<10.5				
N-Nitrosopiperidine					<10.5				
N-Nitrosopyrrolidine					<10.5				
O,O,O-Triethyl Phosphorothioate					<10.5				
o-Toluidine					<10.5				
o-Xylene									
Parathion-Ethyl					<10.5				
Parathion-Methyl					<10.5				
PCB-1016					<.860				
PCB-1221					<.860				
PCB-1232					<.860				
PCB-1242					<.860				
PCB-1248					<.860				
PCB-1254					<.860				
PCB-1260					<.860				
Pentachlorobenzene					<10.5				
Pentachloronitrobenzene					<10.5				
Pentachlorophenol [2C]					<10.5				
Phenacetin					<10.5				
Phenanthrene					<10.5				
Phenol					<10.5				
Phorate					<10.5				
Pronamide					<10.5				
Propionitrile					<10				
Pyrene					<10.5				
Safrole					<10.5				
Selenium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<2.50
Silver	<20.00	<20.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<.50
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfide					<1.0				
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<2.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00 *	<1.00	<2.00
Thionazin					<10.5				
Tin					<5				
Toluene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	31.70	70.70	39.00	19.80	6.75	11.00	6.69 *	7.13	5.00
Toxaphene					<2.08				
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<50.0	<50.0	<1.0	<1.0	<5.0	<1.0	<5.0	<5.0	<3.0
Vinyl Acetate	<2.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Zinc	<20.0	<20.0	<10.0	<10.0	<10.0	<10.0	<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW-11

Constituents	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022
Isosafrole						<10.8			
Kepona						<10.8			
Lead	<1.000	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<.500
MP-Xylene									
Mercury						<.2			
Methacrylonitrile						<10			
Methapyrilene						<10.8			
Methoxychlor						<.0352			
Methyl Methacrylate						<2			
Methyl Methanesulfonate						<10.8			
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene						<5			
Nickel	7.35	5.57	5.37	<4.00	8.18 *	8.83	16.40	14.65 *	7.44
Nitrobenzene						<10.8			
N-Nitrosodiethylamine						<10.8			
N-Nitrosodimethylamine						<10.8			
N-Nitrosodi-n-butylamine						<10.8			
N-Nitrosodi-n-propylamine						<10.8			
N-Nitrosodiphenylamine						<10.8			
N-Nitrosomethylethylamine						<10.8			
N-Nitrosopiperidine						<10.8			
N-Nitrosopyrrolidine						<10.8			
O,O,O-Triethyl Phosphorothioate						<10.8			
o-Toluidine						<10.8			
o-Xylene									
Parathion-Ethyl						<10.8			
Parathion-Methyl						<10.8			
PCB-1016						<.879			
PCB-1221						<.879			
PCB-1232						<.879			
PCB-1242						<.879			
PCB-1248						<.879			
PCB-1254						<.879			
PCB-1260						<.879			
Pentachlorobenzene						<10.8			
Pentachloronitrobenzene						<10.8			
Pentachlorophenol [2C]						<10.8			
Phenacetin						<10.8			
Phenanthrene						<10.8			
Phenol						<10.8			
Phorate						<10.8			
Pronamide						<10.8			
Propionitrile						<10			
Pyrene						<10.8			
Safrole						<10.8			
Selenium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfide						21.2	<10.0		
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thionazin						<10.8			
Tin						<5			
Toluene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.552
Total Suspended Solids	13.10	8.00	7.25	17.30	6.50 *	6.87	14.50	12.75 *	4.50
Toxaphene						<2.20			
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Zinc	<20.0	<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-11

Constituents	3/8/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025	7/14/2025	10/27/2025
Isosafrole							
Kepona							
Lead	.534	.589	<.500	<4.000	3.000		<1.000
MP-Xylene							
Mercury							
Methacrylonitrile							
Methapyrilene							
Methoxychlor							
Methyl Methacrylate							
Methyl Methanesulfonate							
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<5.00		<5.00
Naphthalene							
Nickel	18.80	14.20	5.63	5.40	23.10		6.30
Nitrobenzene							
N-Nitrosodiethylamine							
N-Nitrosodimethylamine							
N-Nitrosodi-n-butylamine							
N-Nitrosodi-n-propylamine							
N-Nitrosodiphenylamine							
N-Nitrosomethylethylamine							
N-Nitrosopiperidine							
N-Nitrosopyrrolidine							
O,O,O-Triethyl Phosphorothioate							
o-Toluidine							
o-Xylene							
Parathion-Ethyl							
Parathion-Methyl							
PCB-1016							
PCB-1221							
PCB-1232							
PCB-1242							
PCB-1248							
PCB-1254							
PCB-1260							
Pentachlorobenzene							
Pentachloronitrobenzene							
Pentachlorophenol [2C]							
Phenacetin							
Phenanthrene							
Phenol							
Phorate							
Pronamide							
Propionitrile							
Pyrene							
Safrole							
Selenium	<1.35	<1.70	<5.00	<4.00	<2.00		<2.00
Silver	<1.00	1.11	<1.00	<4.00	<5.00		<5.00
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Sulfide							
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Thallium	1.22	7.89	<1.00	<2.00	.60		<.50
Thionazin							
Tin							
Toluene	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000
Total Suspended Solids	11.30	8.25	8.33				
Toxaphene							
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<1.00	<1.00		<1.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<5.0	<5.0		<5.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<1.00	<1.00		<1.00
Vanadium	<5.0	<5.0	<5.0	<20.0	7.5	<2.0	<2.0
Vinyl Acetate	<10.00	<10.00	<10.00	<5.00	<5.00		<5.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Xylenes, total	<3.0	<3.0	<3.0	<2.0	<2.0		<2.0
Zinc	<20.0	<20.0	<11.5	28.4	131.0		81.5

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

Table 9

Analytical Data Summary for MW-12

Constituents	Units	9/11/2008	12/10/2008	3/3/2009	8/21/2009	11/4/2009	3/11/2010	8/31/2010	2/16/2011
1,1,1,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<5	<1	<1
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<5	<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-Dichloroethene	ug/L	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene	ug/L				<1			<1	
1,2,3-Trichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-Tetrachlorobenzene	ug/L				<10.0			<10.0	
1,2,4-Trichlorobenzene	ug/L				<5			<5	
1,2-Dibromo-3-Chloropropane	ug/L	<.860	<.860	<.860	<10.000	<.498	<.498	<10.000	<.120
1,2-Dibromoethane	ug/L	<.250	<.250	<.250	<10.000	<.255	<.255	<10.000	<.130
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
1,3,5-Trinitrobenzene	ug/L				<10.00			<10.00	
1,3-Dichlorobenzene	ug/L				<1			<1	
1,3-Dichloropropane	ug/L				<1			<1	
1,3-Dinitrobenzene	ug/L				<10.0			<10.0	
1,4-Dichlorobenzene	ug/L	<1.000	1.600	1.380	1.100	1.010	<1.000	<1.000	<1.000
1,4-Naphthoquinone	ug/L				<10.0			<10.0	
1,4-Phenylenediamine	ug/L				<10.0			<10.0	
1-Naphthylamine	ug/L				<10.0			<10.0	
2,2-Dichloropropane	ug/L				<4			<4	
2,3,4,6-Tetrachlorophenol	ug/L				<10.0			<10.0	
2,4,5-T [2C]	ug/L				<.20			<.53	
2,4,5-TP [Silvex] [2C]	ug/L				.80	<.20	<.20	<.53	<.50
2,4,5-Trichlorophenol	ug/L				<10.0			<10.0	
2,4,6-Trichlorophenol	ug/L				<10.0			<10.0	
2,4-D [2C]	ug/L				<1.00			<1.10	
2,4-Dichlorophenol	ug/L				<10.0			<10.0	
2,4-Dimethylphenol	ug/L				<10.0			<10.0	
2,4-Dinitrophenol	ug/L				<20.0			<20.0	
2,4-Dinitrotoluene	ug/L				<10.0			<10.0	
2,6-Dichlorophenol	ug/L				<10.0			<10.0	
2,6-Dinitrotoluene	ug/L				<10.0			<10.0	
2-Acetylaminofluorene	ug/L				<10.0			<10.0	
2-Butanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	ug/L				<10.0			<10.0	
2-Chlorophenol	ug/L				<10.0			<10.0	
2-Hexanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	ug/L				<10.0			<10.0	
2-Methylphenol	ug/L				<10.0			<10.0	
2-Naphthylamine	ug/L				<10.0			<10.0	
2-Nitroaniline	ug/L				<10.0			<10.0	
2-Nitrophenol	ug/L				<10.0			<10.0	
3,3-Dichlorobenzidine	ug/L				<10.0			<10.0	
3,3-Dimethylbenzidine	ug/L				<10.0			<10.0	
3/4-Methylphenol	ug/L				<10.0			<10.0	
3-Chloropropene	ug/L				<2			<2	
3-Methylcholanthrene	ug/L				<10.00			<10.00	
3-Nitroaniline	ug/L				<10.0			<10.0	
4,4'-DDD	ug/L				<.03200			<.03200	
4,4'-DDE	ug/L				<.032			<.032	
4,4'-DDT	ug/L				<.032			<.032	
4,6-Dinitro-2-methylphenol	ug/L				<10.0			<10.0	
4-Aminobiphenyl	ug/L				<10.0			<10.0	
4-Bromophenyl phenyl ether	ug/L				<10.0			<10.0	
4-Chloro-3-methylphenol	ug/L				<10.0			<10.0	
4-Chloroaniline	ug/L				<10.0			<10.0	
4-Chlorophenyl phenyl ether	ug/L				<10.0			<10.0	
4-Methyl-2-Pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline	ug/L				<10.0			<10.0	
4-Nitrophenol	ug/L				<10.0			<10.0	
5-Nitro-o-toluidine	ug/L				<10.0			<10.0	
7,12-Dimethylbenz [a] anthracene	ug/L				<10.0			<10.0	
Acenaphthene	ug/L				<10.0			<10.0	
Acenaphthylene	ug/L				<10.0			<10.0	
Acetone	ug/L	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L				<10000			<10000	
Acetophenone	ug/L				<10.0			<10.0	
Acrolein	ug/L				<10			<10	
Acrylonitrile	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Aldrin	ug/L				<.032			<.032	
alpha-BHC	ug/L				<.032			<.032	
Anthracene	ug/L				<10.0			<10.0	
Antimony	ug/L	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000

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

Table 9

Analytical Data Summary for MW-12

Constituents	4/26/2012	10/9/2012	7/29/2015	3/28/2016	10/31/2016	3/27/2017	5/31/2017	7/12/2017	11/13/2017
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	<2	<1	<1	<1	<1			<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1			<1
1,1-Dichloroethene	<1	<2	<2	<2	<2	<2			<2
1,1-Dichloropropene				<1					
1,2,3-Trichloropropene	<1	<1	<1	<1	<1	<1			<1
1,2,4,5-Tetrachlorobenzene				<11.5					
1,2,4-Trichlorobenzene				<5					
1,2-Dibromo-3-Chloropropane	<.200	<.120	<.500	<.500	<.500	<.500			<.500
1,2-Dibromoethane	<.050	<.130	<.130	<.130	<.130	<.130			<.130
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
1,3,5-Trinitrobenzene				<2.11					
1,3-Dichlorobenzene				<1					
1,3-Dichloropropane				<1					
1,3-Dinitrobenzene				<11.5					
1,4-Dichlorobenzene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000			<1.000
1,4-Naphthoquinone				<11.5					
1,4-Phenylenediamine				<11.5					
1-Naphthylamine				<11.5					
2,2-Dichloropropane				<4					
2,3,4,6-Tetrachlorophenol				<11.5					
2,4,5-T [2C]				<1.16					
2,4,5-TP [Silvex] [2C]	<1.00	<.32	<1.07	<1.16	<1.17	<1.20			<1.01
2,4,5-Trichlorophenol				<11.5					
2,4,6-Trichlorophenol				<11.5					
2,4-D [2C]				<1.16					
2,4-Dichlorophenol				<11.5					
2,4-Dimethylphenol				<11.5					
2,4-Dinitrophenol				<23.0					
2,4-Dinitrotoluene				<11.5					
2,6-Dichlorophenol				<11.5					
2,6-Dinitrotoluene				<11.5					
2-Acetylaminofluorene				<11.5					
2-Butanone	<10	<10	<10	<10	<10	<10			<10
2-Chloronaphthalene				<11.5					
2-Chlorophenol				<11.5					
2-Hexanone	<10	<10	<10	<10	<10	<10			<10
2-Methylnaphthalene				<11.5					
2-Methylphenol				<11.5					
2-Naphthylamine				<11.5					
2-Nitroaniline				<11.5					
2-Nitrophenol				<11.5					
3,3-Dichlorobenzidine				<57.5					
3,3-Dimethylbenzidine				<11.5					
3/4-Methylphenol				<11.5					
3-Chloropropene				<2					
3-Methylcholanthrene				<1.41					
3-Nitroaniline				<11.5					
4,4'-DDD				<.00868					
4,4'-DDE				<.128					
4,4'-DDT				<.128					
4,6-Dinitro-2-methylphenol				<11.5					
4-Aminobiphenyl				<11.5					
4-Bromophenyl phenyl ether				<11.5					
4-Chloro-3-methylphenol				<11.5					
4-Chloroaniline				<11.5					
4-Chlorophenyl phenyl ether				<11.5					
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10			<10
4-Nitroaniline				<11.5					
4-Nitrophenol				<11.5					
5-Nitro-o-toluidine				<11.5					
7,12-Dimethylbenz [a] anthracene				<11.5					
Acenaphthene				<11.5					
Acenaphthylene				<11.5					
Acetone	<10.00	<10.00	<10.00	14.70	<6.36 *	<4.18			<2.94
Acetonitrile				<10000					
Acetophenone				<11.5					
Acrolein				<10					
Acrylonitrile	<5	<10	<10	<10	<10	<10			<10
Aldrin				<.128					
alpha-BHC				<.128					
Anthracene				<11.5					
Antimony	<6.000	<12.000	<1.000	<1.000	<1.000	<1.000			<.403

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

Table 9

Analytical Data Summary for MW-12

Constituents	6/6/2018	11/27/2018	3/18/2019	12/2/2019	3/30/2020	5/6/2021	10/7/2021	4/6/2022
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-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene						<1		
1,2,3-Trichloropropene	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-Tetrachlorobenzene						<10.9		
1,2,4-Trichlorobenzene						<5		
1,2-Dibromo-3-Chloropropane	<.500	<.500	<1.200	<1.200	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.130	<.130	<.340	<.340	<1.000	<1.000	<1.000	<1.000
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
1,3,5-Trinitrobenzene						<10.90		
1,3-Dichlorobenzene						<1		
1,3-Dichloropropane						<1		
1,3-Dinitrobenzene						<10.9		
1,4-Dichlorobenzene	<.250	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.298
1,4-Naphthoquinone						<10.9		
1,4-Phenylenediamine						<10.9		
1-Naphthylamine						<10.9		
2,2-Dichloropropane						<4		
2,3,4,6-Tetrachlorophenol						<10.9		
2,4,5-T [2C]						<1.08		
2,4,5-TP [Silvex] [2C]						<1.08		
2,4,5-Trichlorophenol						<10.9		
2,4,6-Trichlorophenol						<10.9		
2,4-D [2C]						<1.08		
2,4-Dichlorophenol						<10.9		
2,4-Dimethylphenol						<10.9		
2,4-Dinitrophenol						<21.7		
2,4-Dinitrotoluene						<10.9		
2,6-Dichlorophenol						<10.9		
2,6-Dinitrotoluene						<10.9		
2-Acetylaminofluorene						<10.9		
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene						<10.9		
2-Chlorophenol						<10.9		
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene						<10.9		
2-Methylphenol						<10.9		
2-Naphthylamine						<10.9		
2-Nitroaniline						<10.9		
2-Nitrophenol						<10.9		
3,3-Dichlorobenzidine						<10.9		
3,3-Dimethylbenzidine						<10.9		
3/4-Methylphenol						<10.9		
3-Chloropropene						<2		
3-Methylcholanthrene						<10.90		
3-Nitroaniline						<10.9		
4,4'-DDD						<.03600		
4,4'-DDE						<.036		
4,4'-DDT						<.036		
4,6-Dinitro-2-methylphenol						<10.9		
4-Aminobiphenyl						<10.9		
4-Bromophenyl phenyl ether						<10.9		
4-Chloro-3-methylphenol						<10.9		
4-Chloroaniline						<10.9		
4-Chlorophenyl phenyl ether						<10.9		
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline						<10.9		
4-Nitrophenol						<10.9		
5-Nitro-o-toluidine						<10.9		
7,12-Dimethylbenz [a] anthracene						<10.9		
Acenaphthene						<10.9		
Acenaphthylene						<10.9		
Acetone	<10.00	<3.76	<10.00	<10.00	<10.00	<3.64	<10.00	<3.55
Acetonitrile						<10000		
Acetophenone						<10.9		
Acrolein						<10		
Acrylonitrile	<10	<10	<10	<10	<5	<5	<5	<5
Aldrin						<.036		
alpha-BHC						<.036		
Anthracene						<10.9		
Antimony	<3.000	<1.000	<1.000	<1.000	<1.000	<2.000	<2.000	<2.000

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

Table 9

Analytical Data Summary for MW-12

Constituents	Units	9/11/2008	12/10/2008	3/3/2009	8/21/2009	11/4/2009	3/11/2010	8/31/2010	2/16/2011
Arsenic	ug/L	1.52	3.94	6.99	25.20	6.19	1.68	15.90	16.40
Barium	ug/L	255	2280	1770	2050	280	396	429	727
Benzene	ug/L	<.50	1.00	.90	<.50	.65	<.50	.58	<.50
Benzo [a] anthracene	ug/L				<10.0			<10.0	
Benzo [a] pyrene	ug/L				<10.0			<10.0	
Benzo [b] fluoranthene	ug/L				<10.0			<10.0	
Benzo [g,h,i] perylene	ug/L				<10.0			<10.0	
Benzo [k] fluoranthene	ug/L				<10.0			<10.0	
Benzyl alcohol	ug/L				<10.0			<10.0	
Beryllium	ug/L	<1.000	1.230	<1.000	10.500	1.840	<1.000	1.980	2.010
beta-BHC	ug/L				<.0320			<.0320	
Bis[2-chloroethoxy]methane	ug/L				<10.0			<10.0	
Bis[2-chloroethyl]ether	ug/L				<10.0			<10.0	
Bis[2-chloroisopropyl]ether	ug/L				<10.0			<10.0	
Bis[2-ethylhexyl]phthalate	ug/L				<10.000			<10.000	
Bromochloromethane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<5	<1	<1
Bromoform	ug/L	<5	<5	<5	<5	<20	<5	<5	<5
Bromomethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Butyl benzyl phthalate	ug/L				<10.0			<10.0	
Cadmium	ug/L	3.740	5.640	7.560	52.200	9.350	3.860	8.850	13.200
Carbon Disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	ug/L	<2	<2	<2	<2	<2	<10	<4	<2
Chlordane	ug/L				<2.00			<2.00	
Chlorobenzene	ug/L	<1.000	<1.000	1.250	<1.000	<1.000	<5.000	<1.000	<1.000
Chlorobenzilate	ug/L				<10.0			<10.0	
Chlorodibromomethane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	ug/L	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Chloroform	ug/L	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ug/L	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene	ug/L				<1			<1	
Chromium	ug/L	<20.000	<20.000	<20.000	43.300	<20.000	<20.000	<20.000	<20.000
Chrysene	ug/L				<10.0			<10.0	
cis-1,2-Dichloroethene	ug/L	<1.000	3.620	2.790	1.570	1.480	<1.000	<1.000	<1.000
cis-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	ug/L	<20.0	83.7	184.0	237.0	133.0	10.4	84.6	122.0
Copper	ug/L	<20.000	48.000	246.000	441.000	113.000	<20.000	93.400	170.000
Cyanide	mg/L				<.01000			<.01000	
delta-BHC	ug/L				<.032			<.032	
Diallate [cis or trans]	ug/L				<10.0			<10.0	
Dibenz [a,h] anthracene	ug/L				<10.0			<10.0	
Dibenzofuran	ug/L				<10.0			<10.0	
Dichlorodifluoromethane	ug/L				<3			<3	
Dieldrin	ug/L				<.032			<.032	
Diethyl phthalate	ug/L				<10.0			<10.0	
Dimethoate	ug/L				<10.0			<10.0	
Dimethyl phthalate	ug/L				<10.0			<10.0	
Dimethylaminoazobenzene	ug/L				<10.0			<10.0	
Di-n-butyl phthalate	ug/L				<10.0			<10.0	
Di-n-octyl phthalate	ug/L				<10.0			<10.0	
Dinoseb	ug/L				<10.0			<10.0	
Diphenylamine	ug/L				<10.0			<10.0	
Disulfoton	ug/L				<10.0			<10.0	
Endosulfan I	ug/L				<.032			<.032	
Endosulfan II	ug/L				<.0320			<.0320	
Endosulfan sulfate	ug/L				<.0320			<.0320	
Endrin	ug/L				<.0320			<.0320	
Endrin aldehyde	ug/L				<.032			<.032	
Ethyl Methacrylate	ug/L				<2			<2	
Ethyl Methanesulfonate	ug/L				<10.0			<10.0	
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L				<20.0			<20.0	
Fluoranthene	ug/L				<10.0			<10.0	
Fluorene	ug/L				<10.0			<10.0	
gamma-BHC [Lindane]	ug/L				<.032			<.032	
Heptachlor	ug/L				<.032			<.032	
Heptachlor Epoxide	ug/L				<.032			<.032	
Hexachlorobenzene	ug/L				<10.0			<10.0	
Hexachlorobutadiene	ug/L				<10.0			<10.0	
Hexachlorocyclopentadiene	ug/L				<10.0			<10.0	
Hexachloroethane	ug/L				<10.0			<10.0	
Hexachloropropene	ug/L				<10.0			<10.0	
Indeno [1,2,3-cd] pyrene	ug/L				<10.0			<10.0	
Iodomethane	ug/L	<10	<10	<10	<10	<20	<10	<10	<10
Isobutanol	ug/L				<10000			<10000	
Isodrin	ug/L				<10.0			<10.0	
Isophorone	ug/L				<10.0			<10.0	

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

Table 9

Analytical Data Summary for MW-12

Constituents	4/26/2012	10/9/2012	7/29/2015	3/28/2016	10/31/2016	3/27/2017	5/31/2017	7/12/2017	11/13/2017
Arsenic	23.10	15.00	10.60	32.00	50.35 *	53.60			44.10
Barium	1820	678	638	608	748 *	799			926
Benzene	<.50	<.50	<.50	<.50	<.50	<.50			<.50
Benzo [a] anthracene				<11.5					
Benzo [a] pyrene				<11.5					
Benzo [b] fluoranthene				<11.5					
Benzo [g,h,i] perylene				<11.5					
Benzo [k] fluoranthene				<11.5					
Benzyl alcohol				<11.5					
Beryllium	<4.000	<1.000	<1.000	<1.000	<.620 *	<1.000			<1.000
beta-BHC				<.0235					
Bis[2-chloroethoxy]methane				<11.5					
Bis[2-chloroethyl]ether				<11.5					
Bis[2-chloroisopropyl]ether				<11.5					
Bis[2-ethylhexyl]phthalate				13.900	<.575	<10.400	<10.000	15.600	<10.400
Bromochloromethane	<5	<5	<5	<5	<5	<5			<5
Bromodichloromethane	<1	<2	<1	<1	<1	<1			<1
Bromoform	<5	<5	<5	<5	<5	<5			<5
Bromomethane	<50	<5	<4	<4	<4	<4			<4
Butyl benzyl phthalate				<11.5					
Cadmium	8.000	7.110	<.500	<.500	2.300 *	<.162			<.228
Carbon Disulfide	<1	<1	<1	<1	<1	<1			<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2			<2
Chlordane				<8.00					
Chlorobenzene	<1.000	<1.000	<.192	<1.000	<1.000	<1.000			<1.000
Chlorobenzilate				<11.5					
Chlorodibromomethane	<5	<5	<5	<5	<5	<5			<5
Chloroethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00			<4.00
Chloroform	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0			<1.0
Chloromethane	<3	<3	<3	<3	<3	<3			<3
Chloroprene				<1					
Chromium	23.400	<20.000	<5.000	<.742	<1.687 *	<5.000			<5.000
Chrysene				<11.5					
cis-1,2-Dichloroethene	<1.000	<1.000	<.258	<1.000	<1.000	<1.000			<.239
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5			<5
Cobalt	80.0	64.2	64.6	54.5	42.4 *	48.0			39.6
Copper	89.400	<20.000	<.898	<5.000	19.900 *	<5.000			<3.340
Cyanide				<.00387					
delta-BHC				<.128					
Diallate [cis or trans]				<11.5					
Dibenz [a,h] anthracene				<11.5					
Dibenzofuran				<11.5					
Dichlorodifluoromethane				<3					
Dieldrin				<.128					
Diethyl phthalate				<11.5					
Dimethoate				<11.5					
Dimethyl phthalate				<11.5					
Dimethylaminoazobenzene				<11.5					
Di-n-butyl phthalate				<11.5					
Di-n-octyl phthalate				<23.0					
Dinoseb				<11.5					
Diphenylamine				<11.5					
Disulfoton				<11.5					
Endosulfan I				<.128					
Endosulfan II				<.0106					
Endosulfan sulfate				<.0242					
Endrin				<.0112					
Endrin aldehyde				<.128					
Ethyl Methacrylate				<2					
Ethyl Methanesulfonate				<11.5					
Ethylbenzene	<1	<1	<1	<1	<1	<1			<1
Famphur				<23.0					
Fluoranthene				<11.5					
Fluorene				<11.5					
gamma-BHC [Lindane]				<.128					
Heptachlor				<.128					
Heptachlor Epoxide				<.128					
Hexachlorobenzene				<11.5					
Hexachlorobutadiene				<11.5					
Hexachlorocyclopentadiene				<23.0					
Hexachloroethane				<11.5					
Hexachloropropene				<11.5					
Indeno [1,2,3-cd] pyrene				<11.5					
Iodomethane	<10	<10	<10	<10	<10	<10			<10
Isobutanol				<10000					
Isodrin				<11.5					
Isophorone				<11.5					

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

Table 9

Analytical Data Summary for MW-12

Constituents	6/6/2018	11/27/2018	3/18/2019	12/2/2019	3/30/2020	5/6/2021	10/7/2021	4/6/2022
Arsenic	45.70	27.60	21.40	33.35 *	28.40	34.20	39.10	40.10
Barium	1230	1130	1160	1060 *	933	1550	1470	1620
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene						<10.9		
Benzo [a] pyrene						<10.9		
Benzo [b] fluoranthene						<10.9		
Benzo [g,h,i] perylene						<10.9		
Benzo [k] fluoranthene						<10.9		
Benzyl alcohol						<10.9		
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC						<.0360		
Bis[2-chloroethoxy]methane						<10.9		
Bis[2-chloroethyl]ether						<10.9		
Bis[2-chloroisopropyl]ether						<10.9		
Bis[2-ethylhexyl]phthalate	<106.000	<10.800	<10.600	<10.300	<10.800	<10.900		<10.000
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4	<4	<4	<4	<4	<4	<4	<4
Butyl benzyl phthalate						<10.9		
Cadmium	<.500	<.087	<.500	<.100	<.100	<.100	<.073	<.075
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane						<2.25		
Chlorobenzene	<1.000	<1.000	<1.000	<1.000	<1.000	1.010	<1.000	1.260
Chlorobenzilate						<10.9		
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<1.28	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Chloroform	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chloromethane	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene						<1		
Chromium	<3.770	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Chrysene						<10.9		
cis-1,2-Dichloroethene	<1.000	<1.000	<1.000	<1.000	<1.000	<.254	<.331	<.336
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	52.7	37.8	40.1	40.7 *	41.2	56.3	60.1	67.2
Copper	<1.330	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Cyanide						<.01000		
delta-BHC						<.036		
Diallate [cis or trans]						<10.9		
Dibenz [a,h] anthracene						<10.9		
Dibenzofuran						<10.9		
Dichlorodifluoromethane						<3		
Dieldrin						<.036		
Diethyl phthalate						<10.9		
Dimethoate						<10.9		
Dimethyl phthalate						<10.9		
Dimethylaminoazobenzene						<10.9		
Di-n-butyl phthalate						<10.9		
Di-n-octyl phthalate						<21.7		
Dinoseb						<10.9		
Diphenylamine						<10.9		
Disulfoton						<10.9		
Endosulfan I						<.036		
Endosulfan II						<.0360		
Endosulfan sulfate						<.0360		
Endrin						<.0360		
Endrin aldehyde						<.036		
Ethyl Methacrylate						<2		
Ethyl Methanesulfonate						<10.9		
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
Famphur						<10.9		
Fluoranthene						<10.9		
Fluorene						<10.9		
gamma-BHC [Lindane]						<.036		
Heptachlor						<.036		
Heptachlor Epoxide						<.036		
Hexachlorobenzene						<10.9		
Hexachlorobutadiene						<10.9		
Hexachlorocyclopentadiene						<10.9		
Hexachloroethane						<10.9		
Hexachloropropene						<10.9		
Indeno [1,2,3-cd] pyrene						<10.9		
Iodomethane	<10	<10	<10	<10	<10	<10	<10	<10
Isobutanol						<10000		
Isodrin						<10.9		
Isophorone						<10.9		

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

Table 9

Analytical Data Summary for MW-12

Constituents	Units	9/11/2008	12/10/2008	3/3/2009	8/21/2009	11/4/2009	3/11/2010	8/31/2010	2/16/2011
Isosafrole	ug/L				<10.0			<10.0	
Kepona	ug/L				<10.0			<10.0	
Lead	ug/L	<4.000	15.700	26.000	40.600	6.680	4.370	14.600	19.100
MP-Xylene	ug/L								
Mercury	ug/L				<.2			<.2	
Methacrylonitrile	ug/L				<1			<1	
Methapyrilene	ug/L				<10.0			<10.0	
Methoxychlor	ug/L				<.032			<.032	
Methyl Methacrylate	ug/L				<2			<2	
Methyl Methanesulfonate	ug/L				<10.0			<10.0	
Methylene Bromide	ug/L	<1	<1	<1	<1	<1	<50	<1	<1
Methylene Chloride	ug/L	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene	ug/L				<5			<5	
Nickel	ug/L	<50.0	155.0	287.0	274.0	167.0	<50.0	133.0	169.0
Nitrobenzene	ug/L				<10.0			<10.0	
N-Nitrosodiethylamine	ug/L				<10.0			<10.0	
N-Nitrosodimethylamine	ug/L				<10.0			<10.0	
N-Nitrosodi-n-butylamine	ug/L				<10.0			<10.0	
N-Nitrosodi-n-propylamine	ug/L				<10.0			<10.0	
N-Nitrosodiphenylamine	ug/L				<10.0			<10.0	
N-Nitrosomethylethylamine	ug/L				<10.0			<10.0	
N-Nitrosopiperidine	ug/L				<10.0			<10.0	
N-Nitrosopyrrolidine	ug/L				<10.0			<10.0	
O,O,O-Triethyl Phosphorothioate	ug/L				<10.0			<10.0	
o-Toluidine	ug/L				<10.0			<10.0	
o-Xylene	ug/L								
Parathion-Ethyl	ug/L				<10.0			<10.0	
Parathion-Methyl	ug/L				<10.0			<10.0	
PCB-1016	ug/L				<.800			<.800	
PCB-1221	ug/L				<.800			<.800	
PCB-1232	ug/L				<.800			<.800	
PCB-1242	ug/L				<.800			<.800	
PCB-1248	ug/L				<.800			<.800	
PCB-1254	ug/L				<.800			<.800	
PCB-1260	ug/L				<.800			<.800	
Pentachlorobenzene	ug/L				<10.0			<10.0	
Pentachloronitrobenzene	ug/L				<10.0			<10.0	
Pentachlorophenol [2C]	ug/L				<10.00			<10.00	
Phenacetin	ug/L				<10.0			<10.0	
Phenanthrene	ug/L				<10.0			<10.0	
Phenol	ug/L				<10.0			<10.0	
Phorate	ug/L				<10.0			<10.0	
Pronamide	ug/L				<10.0			<10.0	
Propionitrile	ug/L				<10			<10	
Pyrene	ug/L				<10.0			<10.0	
Safrole	ug/L				<10.0			<10.0	
Selenium	ug/L	<5.00	<5.00	<5.00	<5.00	<5.00	25.00	<5.00	<5.00
Silver	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Styrene	ug/L	<1	<1	<1	<1	<2	<5	<1	<1
Sulfide	mg/L				<1			<1	
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1	<5	<1	<1
Thallium	ug/L	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Thionazin	ug/L				<10.0			<10.0	
Tin	ug/L				<100			<100	
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Total Suspended Solids	mg/L								
Toxaphene	ug/L				<2.00			<2.00	
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<50	<1	<1
trans-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	ug/L	<10	<10	<10	<10	<10	<50	<10	<10
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	ug/L	<50.000	<50.000	58.900	151.000	<50.000	<50.000	<50.000	<50.000
Vinyl Acetate	ug/L	<2.5	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	<4.0
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<3.000	<3.000	<3.000	<3.000	<4.000	<5.000	<3.000	<3.000
Zinc	ug/L	35.60	39.50	115.00	204.00	101.00	58.20	40.40	71.40

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

Table 9

Analytical Data Summary for MW-12

Constituents	4/26/2012	10/9/2012	7/29/2015	3/28/2016	10/31/2016	3/27/2017	5/31/2017	7/12/2017	11/13/2017
Isosafrole				<11.5					
Kepona				<11.5					
Lead	22.500	4.500	<.188	<.260	4.275 *	<.484			.653
MP-Xylene		<2							
Mercury				<.2					
Methacrylonitrile				<10					
Methapyrilene				<11.5					
Methoxychlor				<.128					
Methyl Methacrylate				<2					
Methyl Methanesulfonate				<11.5					
Methylene Bromide	<1	<1	<1	<1	<1	<1			<1
Methylene Chloride	<5.000	<5.000	<5.000	<5.000	<.471 *	<5.000			<5.000
Naphthalene				<5					
Nickel	117.0	62.9	59.8	37.9	33.8 *	39.4			31.2
Nitrobenzene				<11.5					
N-Nitrosodiethylamine				<11.5					
N-Nitrosodimethylamine				<11.5					
N-Nitrosodi-n-butylamine				<11.5					
N-Nitrosodi-n-propylamine				<11.5					
N-Nitrosodiphenylamine				<11.5					
N-Nitrosomethylethylamine				<11.5					
N-Nitrosopiperidine				<11.5					
N-Nitrosopyrrolidine				<11.5					
O,O,O-Triethyl Phosphorothioate				<11.5					
o-Toluidine				<11.5					
o-Xylene		<1							
Parathion-Ethyl				<11.5					
Parathion-Methyl				<11.5					
PCB-1016				<.889					
PCB-1221				<.889					
PCB-1232				<.889					
PCB-1242				<.889					
PCB-1248				<.889					
PCB-1254				<.889					
PCB-1260				<.889					
Pentachlorobenzene				<11.5					
Pentachloronitrobenzene				<11.5					
Pentachlorophenol [2C]				<11.50					
Phenacetin				<11.5					
Phenanthrene				<11.5					
Phenol				<11.5					
Phorate				<11.5					
Pronamide				<11.5					
Propionitrile				<10					
Pyrene				<11.5					
Safrole				<11.5					
Selenium	6.20	<5.00	<5.00	<5.00	<5.00	<5.00			<5.00
Silver	<20.0	<20.0	<1.0	<1.0	<1.0	<1.0			<1.0
Styrene	<1	<1	<1	<1	<1	<1			<1
Sulfide				<1					
Tetrachloroethene	<1	<1	<1	<1	<1	<1			<1
Thallium	<2.000	<2.000	<.220	<.147	<.186 *	<.172			<.141
Thionazin				<11.5					
Tin				<5					
Toluene	<1	<1	<1	<1	<1	<1			<1
Total Suspended Solids			66.9	54.9	174.5 *	64.6	27.5	145.0	68.1
Toxaphene				<8.00					
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1			<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5			<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10			<10
Trichloroethene	<1	<1	<1	<1	<1	<1			<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4			<4
Vanadium	<50.000	<50.000	<.503	<.576	4.185 *	<5.000			<5.000
Vinyl Acetate	<5.0	<2.0	<10.0	<10.0	<10.0	<10.0			<10.0
Vinyl Chloride	<1	<1	<1	<1	<1	<1			<1
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000			<3.000
Zinc	64.90	<20.00	<10.00	<10.00	<6.80 *	<20.00			<20.00

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

Table 9

Analytical Data Summary for MW-12

Constituents	6/6/2018	11/27/2018	3/18/2019	12/2/2019	3/30/2020	5/6/2021	10/7/2021	4/6/2022
Isosafrole						<10.9		
Kepon						<10.9		
Lead	<.415	<.500	<.500	<.500	<.500	<.500	<.369	<.417
MP-Xylene								
Mercury						<.2		
Methacrylonitrile						<10		
Methapyrilene						<10.9		
Methoxychlor						<.036		
Methyl Methacrylate						<.2		
Methyl Methanesulfonate						<10.9		
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5.000	<5.000	<5.000	<5.000	<10.000	<5.000	<5.000	<5.000
Naphthalene						<5		
Nickel	52.7	39.7	38.3	38.5 *	38.7	63.1	77.4	90.8
Nitrobenzene						<10.9		
N-Nitrosodiethylamine						<10.9		
N-Nitrosodimethylamine						<10.9		
N-Nitrosodi-n-butylamine						<10.9		
N-Nitrosodi-n-propylamine						<10.9		
N-Nitrosodiphenylamine						<10.9		
N-Nitrosomethylethylamine						<10.9		
N-Nitrosopiperidine						<10.9		
N-Nitrosopyrrolidine						<10.9		
O,O,O-Triethyl Phosphorothioate						<10.9		
o-Toluidine						<10.9		
o-Xylene								
Parathion-Ethyl						<10.9		
Parathion-Methyl						<10.9		
PCB-1016						<.899		
PCB-1221						<.899		
PCB-1232						<.899		
PCB-1242						<.899		
PCB-1248						<.899		
PCB-1254						<.899		
PCB-1260						<.899		
Pentachlorobenzene						<10.9		
Pentachloronitrobenzene						<10.9		
Pentachlorophenol [2C]						<2.53		
Phenacetin						<10.9		
Phenanthrene						<10.9		
Phenol						<10.9		
Phorate						<10.9		
Pronamide						<10.9		
Propionitrile						<10		
Pyrene						<10.9		
Safrole						<10.9		
Selenium	<2.50	<5.00	5.81	<5.00	<5.00	<1.17	<5.00	<5.00
Silver	<.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide						16	<1	
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<2.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Thionazin						<10.9		
Tin						<5		
Toluene	<1	<1	<1	<1	<1	<1	<1	<1
Total Suspended Solids	41.0	15.5	13.5	20.3 *	19.5	25.1	124.0	35.0
Toxaphene						<2.25		
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<2.620	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Vinyl Acetate	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<.961	<3.000	<3.000
Zinc	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 9

Analytical Data Summary for MW-13

Constituents	Units	10/15/2024	4/16/2025	10/27/2025
1,1,1,2-Tetrachloroethane	ug/L		<1	<1
1,1,1-Trichloroethane	ug/L		<1	<1
1,1,2,2-Tetrachloroethane	ug/L		<1	<1
1,1,2-Trichloroethane	ug/L		<1	<1
1,1-Dichloroethane	ug/L		<1	<1
1,1-Dichloroethene	ug/L		<1	<1
1,2,3-Trichloropropane	ug/L		<1	<1
1,2-Dibromo-3-Chloropropane	ug/L		<5	<5
1,2-Dibromoethane	ug/L		<1	<1
1,2-Dichlorobenzene	ug/L		<1	<1
1,2-Dichloroethane	ug/L		<1	<1
1,2-Dichloropropane	ug/L		<1	<1
1,4-Dichlorobenzene	ug/L		<1	<1
2-Butanone	ug/L		<10	<10
2-Hexanone	ug/L		<5	<5
4-Methyl-2-Pentanone	ug/L		<5	<5
Acetone	ug/L		<10	<10
Acrylonitrile	ug/L		<5	<5
Antimony	ug/L	<2	<1	<1
Arsenic	ug/L	<4	<2	<2
Barium	ug/L	232	218	213
Benzene	ug/L		<1	<1
Beryllium	ug/L	<4.0	<5	<5
Bromochloromethane	ug/L		<1	<1
Bromodichloromethane	ug/L		<1	<1
Bromoform	ug/L		<1	<1
Bromomethane	ug/L		<1	<1
Cadmium	ug/L	<.8	<.2	<.2
Carbon Disulfide	ug/L		<1.0	2.1
Carbon Tetrachloride	ug/L		<1	<1
Chlorobenzene	ug/L		<1	<1
Chlorodibromomethane	ug/L		<1	<1
Chloroethane	ug/L		<1	<1
Chloroform	ug/L		<1	<1
Chloromethane	ug/L		<1	<1
Chromium	ug/L	<8.0	1.9	1.4
cis-1,2-Dichloroethene	ug/L		<1	<1
cis-1,3-Dichloropropene	ug/L		<1	<1
Cobalt	ug/L	1.7	<.5	<.5
Copper	ug/L	<4	<5	<5
Ethylbenzene	ug/L		<1	<1
Iodomethane	ug/L		<1	<1
Lead	ug/L	<4	<1	<1
Methylene Bromide	ug/L		<1	<1
Methylene Chloride	ug/L		<5	<5
Nickel	ug/L	5.8	<5.0	<5.0
Selenium	ug/L	<4	<2	<2
Silver	ug/L	<4	<5	<5
Styrene	ug/L		<1	<1
Tetrachloroethene	ug/L		<1	<1
Thallium	ug/L	<2.0	<.5	<.5
Toluene	ug/L		<1	<1
trans-1,2-Dichloroethene	ug/L		<1	<1
trans-1,3-Dichloropropene	ug/L		<1	<1
trans-1,4-Dichloro-2-Butene	ug/L		<5	<5
Trichloroethene	ug/L		<1	<1
Trichlorofluoromethane	ug/L		<1	<1
Vanadium	ug/L	<20	<2	<2
Vinyl Acetate	ug/L		<5	<5
Vinyl Chloride	ug/L		<1	<1
Xylenes, total	ug/L		<2	<2
Zinc	ug/L	<20.0	<5.0	8.3

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

Table 9

Analytical Data Summary for MW-15R

Constituents	Units	3/11/2010	5/27/2010	8/31/2010	11/4/2010	2/16/2011	10/27/2011	4/26/2012	10/9/2012
1,1,1,2-Tetrachloroethane	ug/L	<5	<4	<1	<1	<1	<1		<1
1,1,1-Trichloroethane	ug/L	<1	<4	<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		<2
1,1-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1		<1
1,1-Dichloroethene	ug/L	<2	<2	<2	<2	<2	<2		<2
1,2,3-Trichloropropane	ug/L	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
1,2-Dibromo-3-Chloropropane	ug/L	<.498	<.498	<.498	<.120	<.120	<.120		<.120
1,2-Dibromoethane	ug/L	<.255	<.255	<.255	<.130	<.130	<.130		<.130
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1		<1
1,2-Dichloroethane	ug/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
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	ug/L	<10	<10	<10	<10	<10	<10		<10
2-Hexanone	ug/L	<10	<20	<10	<10	<10	<10		<10
4-Methyl-2-Pentanone	ug/L	<10	<10	<10	<10	<10	<10		<10
Acetone	ug/L	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00		<10.00
Acrylonitrile	ug/L	<10	<10	<10	<10	<10	<10		<10
Antimony	ug/L	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000
Arsenic	ug/L	<1.000	<1.000	<2.000	<1.000	<1.000	<1.000	4.500	<1.000
Barium	ug/L	54.7	50.3	120.0	86.6	84.8	79.1	251.0	140.0
Benzene	ug/L	<.5	<.5	<.5	<.5	<.5	<.5		<.5
Beryllium	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0
Bromochloromethane	ug/L	<5	<5	<5	<5	<5	<5		<5
Bromodichloromethane	ug/L	<5	<4	<1	<1	<1	<1		<2
Bromoform	ug/L	<5	<20	<5	<5	<5	<5		<5
Bromomethane	ug/L	<4	<4	<4	<4	<4	<20		<5
Cadmium	ug/L	.649	1.250	1.110	.610	.948	.514	<.800	.783
Carbon Disulfide	ug/L	<1	<4	<4	<1	<1	<1		<1
Carbon Tetrachloride	ug/L	<10	<4	<5	<2	<2	<2		<2
Chlorobenzene	ug/L	<5	<1	<1	<1	<1	<1		<1
Chlorodibromomethane	ug/L	<5	<5	<10	<5	<5	<5		<5
Chloroethane	ug/L	<4	<4	<4	<4	<4	<4		<4
Chloroform	ug/L	<1	<1	<1	<1	<1	<1		<2
Chloromethane	ug/L	<3	<3	<3	<3	<3	<3		<3
Chromium	ug/L	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1		<1
cis-1,3-Dichloropropene	ug/L	<5	<5	<10	<5	<5	<5		<5
Cobalt	ug/L	<1.550	1.770	<1.550	<1.550	<1.550	<1.550	2.000	<1.550
Copper	ug/L	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1		<1
Iodomethane	ug/L	<10	<10	<10	<10	<10	<20		<10
Lead	ug/L	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
MP-Xylene	ug/L								<2
Methylene Bromide	ug/L	<50	<1	<1	<1	<1	<1		<1
Methylene Chloride	ug/L	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000		<5.000
Nickel	ug/L	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000
o-Xylene	ug/L								<1
Selenium	ug/L	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Styrene	ug/L	<5	<4	<4	<1	<1	<1		<1
Sulfide	mg/L								<1
Tetrachloroethene	ug/L	<5	<1	<1	<1	<1	<1		<1
Thallium	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1		<1
Total Suspended Solids	mg/L								
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1		<1
trans-1,3-Dichloropropene	ug/L	<5	<5	<10	<5	<5	<5		<5
trans-1,4-Dichloro-2-Butene	ug/L	<50	<10	<10	<10	<10	<10		<10
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1		<1
Trichlorofluoromethane	ug/L	<4	<4	<4	<4	<4	<4		<4
Vanadium	ug/L	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000
Vinyl Acetate	ug/L	<2	<2	<2	<2	<4	<2		<2
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1		<1
Xylenes, total	ug/L	<7.500	<12.000	<3.000	<3.000	<3.000	<3.000		<3.000
Zinc	ug/L	57.70	<20.00	48.90	22.60	<20.00	39.40	23.80	145.00

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

Table 9

Analytical Data Summary for MW-15R

Constituents	2/20/2013	10/3/2013	4/22/2014	7/10/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016
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-Dichloroethene	<2	<2	<2		<2	<2	<2	<2	<2
1,2,3-Trichloropropane	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<.120	<.120	<.120		<.120	<.500	<.500	<.500	<.500
1,2-Dibromoethane	<.130	<.130	<.130		<.130	<.130	<.130	<.130	<.130
1,2-Dichlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1
1,2-Dichloroethane	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloropropane	<1	<1	<1		<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1
2-Butanone	<10	<10	<10		<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10		<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	<10	<10	<10		<10	<10	<10	<10	<10
Acetone	<10.00	<10.00	<10.00		<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<10	<10	<10		<10	<10	<10	<10	<10
Antimony	<6.000	<1.030	<6.000		<6.000	<1.000	<1.000	<1.000	<1.000
Arsenic	<1.000	<.644	<1.000		<1.000	<1.470	<2.000	<1.340	<2.000
Barium	131.0	160.0	173.5 *		226.0 *	195.0	175.0	187.0	168.0
Benzene	<.5	<.5	<.5		<.5	<.5	<.5	<.5	<.5
Beryllium	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<5	<5	<5		<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1		<1	<1	<1	<1	<1
Bromoform	<5	<5	<5		<5	<5	<5	<5	<5
Bromomethane	<4	<4	<4		<4	<4	<4	<4	<4
Cadmium	<.500	1.070	1.047 *		<.295 *	<.195	<.162	<.500	<.040
Carbon Disulfide	<1	<1	<1		<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2		<2	<2	<2	<2	<2
Chlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1
Chlorodibromomethane	<5	<5	<5		<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4		<4	<4	<4	<4	<4
Chloroform	<1	<1	<1		<1	<1	<1	<1	<1
Chloromethane	<3	<3	<3		<3	<3	<3	<3	<3
Chromium	<20.000	<3.050	<20.000		<20.000	<5.000	<5.000	<5.000	<.743
cis-1,2-Dichloroethene	<1	<1	<1		<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5		<5	<5	<5	<5	<5
Cobalt	<1.320	<1.320	<2.410		<2.410	<.244	<.070	<.152	<.500
Copper	<20.000	<6.520	<6.680 *		<11.830 *	<1.530	<1.060	<2.000	<5.000
Ethylbenzene	<1	<1	<1		<1	<1	<1	<1	<1
Iodomethane	<10	<10	<10		<10	<10	<10	<10	<10
Lead	<4.000	<1.830	<2.420 *		<4.000	<.264	<.500	<.500	<.500
MP-Xylene	<2	<2	<2		<2	<2	<2	<2	<2
Methylene Bromide	<1	<1	<1		<1	<1	<1	<1	<1
Methylene Chloride	<5.000	<5.000	<5.000		<5.000	<5.000	<5.000	<5.000	<.474
Nickel	<50.000	<3.110	<50.000		<11.850 *	<2.380	<.679	<5.000	<5.000
o-Xylene	<1	<1	<1		<1	<1	<1	<1	<1
Selenium	<5.00	<2.46	<5.00		<5.00	<5.00	<5.00	<5.00	<1.21
Silver	<20.0	<20.0	<20.0		<20.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1	<1	<1		<1	<1	<1	<1	<1
Sulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	<1	<1	<1		<1	<1	<1	<1	<1
Thallium	<2.0	<2.0	<2.0		<2.0	<1.0	<1.0	<1.0	<1.0
Toluene	<1	<1	<1		<1	<1	<1	<1	<1
Total Suspended Solids			116.250 *	100.000	51.500 *	3.500	3.750	2.380	<1.500
trans-1,2-Dichloroethene	<1	<1	<1		<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5		<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10		<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1		<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4		<4	<4	<4	<4	<4
Vanadium	<50.000	<50.000	<2.990 *		<26.345 *	<5.000	<.457	<5.000	<.337
Vinyl Acetate	<2	<2	<2		<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1		<1	<1	<1	<1	<1
Xylenes, total	<3.000	<3.000	<3.000		<3.000	<3.000	<3.000	<3.000	<3.000
Zinc	51.10	185.00	<20.00		<20.00	<7.93	<10.00	<10.00	<10.00

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

Table 9

Analytical Data Summary for MW-15R

Constituents	3/27/2017	11/13/2017	6/6/2018	11/27/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021
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-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<.500	<.500	<.500	<.500	<1.200	<1.200	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.130	<.130	<.130	<.130	<.340	<.340	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	1.44	<1.00	<1.00	<1.00	<1.00
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	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	<2.11	<3.10	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<10	<10	<10	<10	<10	<10	<5	<5	<5
Antimony	<1.000	<.255	<3.000	<1.000	<1.000	<1.000	<1.000	<1.000	<2.000
Arsenic	<.543	<.608	1.670	<1.110	<.859	<2.000	<2.000	<2.000	<2.000
Barium	217.0	193.0	170.0	199.0	263.0	208.0	205.0	224.0	217.0
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Beryllium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Cadmium	<.048	<.089	<.500	<.500	<.500	<.100	<.100	<.100	<.100
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chromium	<.793	<.912	<4.310	<.802	<5.000	<5.000	<5.000	<5.000	<5.000
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	<.500	<.500	<1.000	1.020	<.214	<.500	<.500	<.500	<.500
Copper	<5.000	<5.000	<.886	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10
Lead	<.500	.518	<.500	<.500	<.500	<.500	<.500	<.500	<.500
MP-Xylene									
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Nickel	<5.000	<5.000	<1.030	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
o-Xylene									
Selenium	<1.19	<1.19	<1.52	<1.58	<5.00	<5.00	<1.29	<5.00	<2.07
Silver	<1.0	<1.0	<.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide									
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Suspended Solids	<.625	<1.250	<1.880	<1.880	<1.500	<1.880	<1.880	<1.880	<1.880
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<5.000	<5.000	<3.230	<.565	<5.000	<5.000	<5.000	<5.000	<5.000
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<.463
Zinc	<20.00	<20.00	<10.80	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 9

Analytical Data Summary for MW-15R

Constituents	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025	7/14/2025
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-Dichloroethene	<2	<2	<2	<2	<2	<2	<1	<1	
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	
1,2-Dibromoethane	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	
2-Hexanone	<10	<10	<10	<10	<10	<10	<5	<5	
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<5	<5	
Acetone	<10.00	<10.00	<10.00	<10.00	<3.18	<10.00	<10.00	<10.00	
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	
Antimony	<2.000	<2.000	<2.000	<2.000	<1.650	<2.000	<2.000	<1.000	<1.000
Arsenic	2.840	<821	<2.000	<2.000	<640	9.130	9.100	19.700	7.700
Barium	207.0	257.0	248.0	265.0	306.0	351.0	376.0	662.0	602.0
Benzene	<5	<5	<5	<5	<5	<5	<1.0	<1.0	
Beryllium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<5	<5
Bromochloromethane	<5	<5	<5	<5	<5	<5	<1	<1	
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	
Bromoform	<5	<5	<5	<5	<5	<5	<1	<1	
Bromomethane	<4	<4	<4	<4	<4	<4	<1	<1	
Cadmium	<.100	<.100	<.100	<.100	<.200	<.111	<.800	.300	<.200
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1	<1	
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<1	<1	
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<1	<1	
Chloroethane	<4	<4	<4	<4	<4	<4	<1	<1	
Chloroform	<3	<3	<3	<3	<3	<3	<1	<1	
Chloromethane	<3	<3	<3	<3	<3	<3	<1	<1	
Chromium	<1.110	<5.000	<5.000	<5.000	<5.000	<5.000	<8.000	2.000	1.600
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<1	<1	
Cobalt	<.500	<.464	<.500	<.308	<.500	2.730	4.200	7.900	2.600
Copper	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<4.000	<5.000	<5.000
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	
Iodomethane	<10	<10	<10	<10	<10	<10	<1	<1	
Lead	<.500	<.500	<.500	<.500	<.500	<.500	<4.000	1.000	<1.000
MP-Xylene									
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	
Methylene Chloride	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	
Nickel	<5.000	<5.000	<5.000	<2.330	<5.000	<2.480	6.300	6.500	<5.000
o-Xylene									
Selenium	<1.35	<1.00	<1.13	<1.55	<5.00	<5.00	<4.00	<2.00	<2.00
Silver	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<5.0	<5.0
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	
Sulfide	<1								
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	
Thallium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<5	<5
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	
Total Suspended Solids	<.875	<1.880	<1.880	<1.880	21.800	8.600			
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<1	<1	
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<5	<5	
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<1	<1	
Vanadium	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<20.000	5.200	<2.000
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<5	<5	
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<2.000	<2.000	
Zinc	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	12.80	11.70

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

Table 9

Analytical Data Summary for MW-15R

Constituents	10/27/2025
1,1,1,2-Tetrachloroethane	<1
1,1,1-Trichloroethane	<1
1,1,2,2-Tetrachloroethane	<1
1,1,2-Trichloroethane	<1
1,1-Dichloroethane	<1
1,1-Dichloroethene	<1
1,2,3-Trichloropropane	<1.0
1,2-Dibromo-3-Chloropropane	<5.000
1,2-Dibromoethane	<1.000
1,2-Dichlorobenzene	<1
1,2-Dichloroethane	<1.00
1,2-Dichloropropane	<1
1,4-Dichlorobenzene	<1
2-Butanone	<10
2-Hexanone	<5
4-Methyl-2-Pentanone	<5
Acetone	<10.00
Acrylonitrile	<5
Antimony	<1.000
Arsenic	3.500
Barium	321.0
Benzene	<1.0
Beryllium	<.5
Bromochloromethane	<1
Bromodichloromethane	<1
Bromoform	<1
Bromomethane	<1
Cadmium	.300
Carbon Disulfide	<1
Carbon Tetrachloride	<1
Chlorobenzene	<1
Chlorodibromomethane	<1
Chloroethane	<1
Chloroform	<1
Chloromethane	<1
Chromium	1.600
cis-1,2-Dichloroethene	<1
cis-1,3-Dichloropropene	<1
Cobalt	2.100
Copper	<5.000
Ethylbenzene	<1
Iodomethane	<1
Lead	<1.000
MP-Xylene	
Methylene Bromide	<1
Methylene Chloride	<5.000
Nickel	<5.000
o-Xylene	
Selenium	<2.00
Silver	<5.0
Styrene	<1
Sulfide	
Tetrachloroethene	<1
Thallium	<.5
Toluene	<1
Total Suspended Solids	
trans-1,2-Dichloroethene	<1
trans-1,3-Dichloropropene	<1
trans-1,4-Dichloro-2-Butene	<5
Trichloroethene	<1
Trichlorofluoromethane	<1
Vanadium	<2.000
Vinyl Acetate	<5
Vinyl Chloride	<1
Xylenes, total	<2.000
Zinc	5.00

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

Table 9

Analytical Data Summary for MW-19

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	3/11/2010
1,1,1,2-Tetrachloroethane	ug/L	<.33	<.33	<.33	<1.00	<1.00	<1.00	<1.00	<5.00
1,1,1-Trichloroethane	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<5.00
1,1,2,2-Tetrachloroethane	ug/L	<.23	<.23	<.23	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	ug/L	<.37	<.37	<.37	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,1-Dichloroethene	ug/L	<.37	<.37	<.37	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene	ug/L								
1,2,3-Trichloropropane	ug/L	<.7	<.7	<.7	<1.0	<1.0	<1.0	<1.0	<2.5
1,2,4,5-Tetrachlorobenzene	ug/L								
1,2,4-Trichlorobenzene	ug/L								
1,2-Dibromo-3-Chloropropane	ug/L	<.860	<.860	<.860	<.860	<.860	<.860	<.498	<.498
1,2-Dibromoethane	ug/L	<.250	<.250	<.250	<.250	<.250	<.250	<.255	<.255
1,2-Dichlorobenzene	ug/L	<.21	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L	<.4	<.4	<.4	<1.0	<1.0	<1.0	<1.0	<1.0
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	<.160	<.160	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
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 [2C]	ug/L								
2,4,5-TP [Silvex] [2C]	ug/L								
2,4,5-Trichlorophenol	ug/L								
2,4,6-Trichlorophenol	ug/L								
2,4-D [2C]	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	ug/L	<.91	<.91	<.91	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene	ug/L								
2-Chlorophenol	ug/L								
2-Hexanone	ug/L	<1.76	<1.76	<1.76	<10.00	<10.00	<10.00	<10.00	<10.00
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								
3/4-Methylphenol	ug/L								
3-Chloropropene	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	ug/L	<.31	<.31	<.31	<10.00	<10.00	<10.00	<10.00	<10.00
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	<4.62	<4.62	<4.62	32.90	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L								
Acetophenone	ug/L								
Acrolein	ug/L								
Acrylonitrile	ug/L	<1.28	<1.28	<1.28	<10.00	<10.00	<10.00	<10.00	<10.00
Aldrin	ug/L								
alpha-BHC	ug/L								
alpha-Chlordane	ug/L								
Anthracene	ug/L								

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

Table 9

Analytical Data Summary for MW-19

Constituents	8/31/2010	2/16/2011	7/7/2011	10/27/2011	1/23/2012	4/26/2012	10/9/2012	2/20/2013	5/15/2013
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<2.00	<1.00	
1,1-Dichloroethane	<1.000	<1.000	1.180	<1.000		<1.000	<1.000	<1.000	
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00		<1.00	<2.00	<2.00	
1,1-Dichloropropene			<1				<1		
1,2,3-Trichloropropane	<1.0	<1.0	<2.0	<1.0		<1.0	<1.0	<1.0	
1,2,4,5-Tetrachlorobenzene			<10.0				<10.0		
1,2,4-Trichlorobenzene			<5				<5		
1,2-Dibromo-3-Chloropropane	<.498	<.120	<10.000	<.120		<.200	<.120	<.120	
1,2-Dibromoethane	<.255	<.130	<10.000	<.130		<.050	<.130	<.130	
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	
1,3,5-Trinitrobenzene			<10.0				<10.0		
1,3-Dichlorobenzene			<1				<1		
1,3-Dichloropropane			<1				<1		
1,3-Dinitrobenzene			<10.0				<10.0		
1,4-Dichlorobenzene	<1.000	<1.000	3.060	<1.000		<1.000	<1.000	<1.000	
1,4-Naphthoquinone			<10.0				<10.0		
1,4-Phenylenediamine			<10.0				<10.0		
1-Naphthylamine			<10.0				<10.0		
2,2-Dichloropropane			<4				<4		
2,3,4,6-Tetrachlorophenol			<10.0				<10.0		
2,4,5-T [2C]			<.24				<.43		
2,4,5-TP [Silvex] [2C]			<.240				<.290		
2,4,5-Trichlorophenol			<10.0				<10.0		
2,4,6-Trichlorophenol			<10.0				<10.0		
2,4-D [2C]			<.450				<.470		
2,4-Dichlorophenol			<10.0				<10.0		
2,4-Dimethylphenol			<10.000				<10.000		
2,4-Dinitrophenol			<20.0				<20.0		
2,4-Dinitrotoluene			<10.0				<10.0		
2,6-Dichlorophenol			<10.0				<10.0		
2,6-Dinitrotoluene			<10.0				<10.0		
2-Acetylaminofluorene			<10.0				<10.0		
2-Butanone	<10.00	<10.00	<10.00	<10.00		<10.00	<10.00	<10.00	
2-Chloronaphthalene			<10.0				<10.0		
2-Chlorophenol			<10.0				<10.0		
2-Hexanone	<10.00	<10.00	<10.00	<10.00		<10.00	<10.00	<10.00	
2-Methylnaphthalene			<10.0				<10.0		
2-Methylphenol			<10.0				<10.0		
2-Naphthylamine			<10.0				<10.0		
2-Nitroaniline			<10.0				<10.0		
2-Nitrophenol			<10.0				<10.0		
3,3-Dichlorobenzidine			<10.0				<10.0		
3,3-Dimethylbenzidine			<10.0				<10.0		
3/4-Methylphenol			<10.0				<10.0		
3-Chloropropene			<2				<2		
3-Methylcholanthrene			<10.0				<10.0		
3-Nitroaniline			<10.0				<10.0		
4,4'-DDD			<.0320				<.0320		
4,4'-DDE			<.0320				<.0320		
4,4'-DDT			<.0320				<.0320		
4,6-Dinitro-2-methylphenol			<10.0				<10.0		
4-Aminobiphenyl			<10.0				<10.0		
4-Bromophenyl phenyl ether			<10.0				<10.0		
4-Chloro-3-methylphenol			10.9	<10.0	<10.0	<10.0	<10.0	<10.0	
4-Chloroaniline			<10.0				<10.0		
4-Chlorophenyl phenyl ether			<10.0				<10.0		
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00		<10.00	<10.00	<10.00	
4-Nitroaniline			<10.0				<10.0		
4-Nitrophenol			<10.0				<10.0		
5-Nitro-o-toluidine			<10.0				<10.0		
7,12-Dimethylbenz [a] anthracene			<10.0				<10.0		
Acenaphthene			<10.0				<10.0		
Acenaphthylene			<10.0				<10.0		
Acetone	<10.00	<10.00	<10.00	<10.00		<10.00	<10.00	<10.00	
Acetonitrile			<10000				<10000		
Acetophenone			<10.0				<10.0		
Acrolein			<10				<10		
Acrylonitrile	<10.00	<10.00	<10.00	<10.00		<5.00	<10.00	<10.00	
Aldrin			<.0320				<.0320		
alpha-BHC			<.0320				<.0320		
alpha-Chlordane							<.032		
Anthracene			<10.0				<10.0		

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

Table 9

Analytical Data Summary for MW-19

Constituents	10/3/2013	12/18/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017
1,1,1,2-Tetrachloroethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	1.050		2.280	1.260	1.680	1.180	1.010	<1.000	<.511
1,1-Dichloroethene	<2.00		<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene									<1
1,2,3-Trichloropropane	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene									<10.9
1,2,4-Trichlorobenzene									<5
1,2-Dibromo-3-Chloropropane	<.120		<.120	<.120	<.500	<.500	<.500	<.500	<.500
1,2-Dibromoethane	<.130		<.130	<.130	<.130	<.130	<.130	<.130	<.130
1,2-Dichlorobenzene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene									<10.9
1,3-Dichlorobenzene									<1
1,3-Dichloropropane									<1
1,3-Dinitrobenzene									<10.9
1,4-Dichlorobenzene	<1.000		<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,4-Naphthoquinone									<10.9
1,4-Phenylenediamine									<10.9
1-Naphthylamine									<10.9
2,2-Dichloropropane									<4
2,3,4,6-Tetrachlorophenol									<10.9
2,4,5-T [2C]									<1.22
2,4,5-TP [Silvex] [2C]									<1.220
2,4,5-Trichlorophenol									<10.9
2,4,6-Trichlorophenol									<10.9
2,4-D [2C]									<1.220
2,4-Dichlorophenol									<10.9
2,4-Dimethylphenol									<.583
2,4-Dinitrophenol									<21.7
2,4-Dinitrotoluene									<10.9
2,6-Dichlorophenol									<10.9
2,6-Dinitrotoluene									<10.9
2-Acetylaminofluorene									<10.9
2-Butanone	<10.00		<10.00		<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene									<10.9
2-Chlorophenol									<10.9
2-Hexanone	<10.00		<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene									<10.9
2-Methylphenol									<10.9
2-Naphthylamine									<10.9
2-Nitroaniline									<10.9
2-Nitrophenol									<10.9
3,3-Dichlorobenzidine									<54.3
3,3-Dimethylbenzidine									<10.9
3/4-Methylphenol									<10.9
3-Chloropropene									<2
3-Methylcholanthrene									<10.9
3-Nitroaniline									<10.9
4,4'-DDD									<.3230
4,4'-DDE									<.3230
4,4'-DDT									<.3230
4,6-Dinitro-2-methylphenol									<10.9
4-Aminobiphenyl									<10.9
4-Bromophenyl phenyl ether									<10.9
4-Chloro-3-methylphenol			<10.3	<10.4	<10.0	<10.2	<10.2	<10.5	<10.9
4-Chloroaniline									<10.9
4-Chlorophenyl phenyl ether									<10.9
4-Methyl-2-Pentanone	<10.00		<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline									<10.9
4-Nitrophenol									<10.9
5-Nitro-o-toluidine									<10.9
7,12-Dimethylbenz [a] anthracene									<10.9
Acenaphthene									<10.9
Acenaphthylene									<10.9
Acetone	<10.00		<10.00	<10.00	<10.00	<10.00	<10.00	<3.53	<10.00
Acetonitrile									<10000
Acetophenone									<10.9
Acrolein									<10
Acrylonitrile	<10.00		<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Aldrin									<.3230
alpha-BHC									<.0202
alpha-Chlordane									
Anthracene									<10.9

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

Table 9

Analytical Data Summary for MW-19

Constituents	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<.882	<.375	1.020 *	<.346	<.587	<.252	<1.000	<.879	<.729
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene									
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene									
1,2,4-Trichlorobenzene									
1,2-Dibromo-3-Chloropropane	<.500	<.500	<1.200	<1.200	<1.200	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.130	<.130	<.340	<.340	<.340	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene									
1,3-Dichlorobenzene									
1,3-Dichloropropane									
1,3-Dinitrobenzene									
1,4-Dichlorobenzene	<.268	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,4-Naphthoquinone									
1,4-Phenylenediamine									
1-Naphthylamine									
2,2-Dichloropropane									
2,3,4,6-Tetrachlorophenol									
2,4,5-T [2C]									
2,4,5-TP [Silvex] [2C]									
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol									
2,4-D [2C]									
2,4-Dichlorophenol									
2,4-Dimethylphenol									
2,4-Dinitrophenol									
2,4-Dinitrotoluene									
2,6-Dichlorophenol									
2,6-Dinitrotoluene									
2-Acetylaminofluorene									
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene									
2-Chlorophenol									
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene									
2-Methylphenol									
2-Naphthylamine									
2-Nitroaniline									
2-Nitrophenol									
3,3-Dichlorobenzidine									
3,3-Dimethylbenzidine									
3/4-Methylphenol									
3-Chloropropene									
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	<10.6								
4-Chloroaniline									
4-Chlorophenyl phenyl ether									
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline									
4-Nitrophenol									
5-Nitro-o-toluidine									
7,12-Dimethylbenz [a] anthracene									
Acenaphthene									
Acenaphthylene									
Acetone	<4.16	<4.19	<10.00	<3.43	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile	<10.00	<10.00	<10.00	<10.00	<10.00	<5.00	<5.00	<5.00	<5.00
Aldrin									
alpha-BHC									
alpha-Chlordane									
Anthracene									

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

Table 9

Analytical Data Summary for MW-19

Constituents	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<.598	<1.000	<.610 *	<.611	<.508	<1.000	<1.000	<1.000
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00	<1.00	<1.00
1,1-Dichloropropene	<1							
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene	<10.0							
1,2,4-Trichlorobenzene	<5							
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene	<10.0							
1,3-Dichlorobenzene	<1							
1,3-Dichloropropane	<1							
1,3-Dinitrobenzene	<10.0							
1,4-Dichlorobenzene	<.323	<1.000	<.366 *	<.280	<.232	<1.000	<1.000	<1.000
1,4-Naphthoquinone	<10.0							
1,4-Phenylenediamine	<10.0							
1-Naphthylamine	<10.0							
2,2-Dichloropropane	<4							
2,3,4,6-Tetrachlorophenol	<10.0							
2,4,5-T [2C]	<1.04							
2,4,5-TP [Silvex] [2C]	<.869							
2,4,5-Trichlorophenol	<10.0							
2,4,6-Trichlorophenol	<10.0							
2,4-D [2C]	<.679							
2,4-Dichlorophenol	<10.0							
2,4-Dimethylphenol	<10.000							
2,4-Dinitrophenol	<20.0							
2,4-Dinitrotoluene	<10.0							
2,6-Dichlorophenol	<10.0							
2,6-Dinitrotoluene	<10.0							
2-Acetylaminofluorene	<10.0							
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene	<10.0							
2-Chlorophenol	<10.0							
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<5.00	<5.00	<5.00
2-Methylnaphthalene	<10.0							
2-Methylphenol	<10.0							
2-Naphthylamine	<10.0							
2-Nitroaniline	<10.0							
2-Nitrophenol	<10.0							
3,3-Dichlorobenzidine	<10.0							
3,3-Dimethylbenzidine	<10.0							
3/4-Methylphenol	<10.0							
3-Chloropropene	<2							
3-Methylcholanthrene	<10.0							
3-Nitroaniline	<10.0							
4,4'-DDD	<.0696							
4,4'-DDE	<.0696							
4,4'-DDT	<.0696							
4,6-Dinitro-2-methylphenol	<10.0							
4-Aminobiphenyl	<10.0							
4-Bromophenyl phenyl ether	<10.0							
4-Chloro-3-methylphenol	<10.0							
4-Chloroaniline	<10.0							
4-Chlorophenyl phenyl ether	<10.0							
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<5.00	<5.00	<5.00
4-Nitroaniline	<10.0							
4-Nitrophenol	<10.0							
5-Nitro-o-toluidine	<10.0							
7,12-Dimethylbenz [a] anthracene	<10.0							
Acenaphthene	<10.0							
Acenaphthylene	<10.0							
Acetone	<10.00	<10.00	<10.00	<5.58	<10.00	<10.00	<10.00	<10.00
Acetonitrile	<10000							
Acetophenone	<10.0							
Acrolein	<10							
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin	<.0696							
alpha-BHC	<.0696							
alpha-Chlordane								
Anthracene	<10.0							

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

Table 9

Analytical Data Summary for MW-19

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	3/11/2010
Antimony	ug/L	<6.00	<1.79	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00
Arsenic	ug/L	<1.00	1.78	1.61	8.97	1.08	1.73	<1.00	<1.00
Barium	ug/L	675	791	600	309	599	670	546	567
Benzene	ug/L	<.160	<.160	<.160	<.500	<.500	<.500	<.500	<.500
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	ug/L	<1.000	1.610	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
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	<.76	<.76	<.76	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<5.0
Bromoform	ug/L	<.430	<.430	<.430	<5.000	<5.000	<5.000	<5.000	<5.000
Bromomethane	ug/L	<.480	<.480	<.480	<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate	ug/L								
Cadmium	ug/L	1.900	3.930	1.470	7.450	2.860	7.040	46.200	1.430
Carbon Disulfide	ug/L	<.180	<.180	<.180	<1.000	<1.000	<1.000	<1.000	<1.000
Carbon Tetrachloride	ug/L	<.31	<.31	<.31	<2.00	<2.00	<2.00	<2.00	<10.00
Chlordane	ug/L								
Chlorobenzene	ug/L	<.170	<.170	<.170	<1.000	<1.000	<1.000	<1.000	<5.000
Chlorobenzilate	ug/L								
Chlorodibromomethane	ug/L	.32	<.26	<.26	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	ug/L	.790	.540	<.500	<4.000	<4.000	<4.000	<4.000	<4.000
Chloroform	ug/L	<.17	<.17	<.17	<1.00	<2.50	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.200	<.200	<.200	<3.000	<3.000	<3.000	<3.000	<3.000
Chloroprene	ug/L								
Chromium	ug/L	<20.00	<1.73	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Chrysene	ug/L								
cis-1,2-Dichloroethene	ug/L	<.370	<.370	<.370	<1.000	<1.000	<1.000	<1.000	<1.000
cis-1,3-Dichloropropene	ug/L	<.23	<.23	<.23	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	ug/L	<20.00	<1.40	<20.00	<20.00	<20.00	<20.00	<20.00	2.52
Copper	ug/L	<20.000	<13.100	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Cyanide	mg/L								
delta-BHC	ug/L								
Diallate [cis or trans]	ug/L								
Dibenz [a,h] anthracene	ug/L								
Dibenzofuran	ug/L								
Dichlorodifluoromethane	ug/L								
Dieldrin	ug/L								
Diethyl phthalate	ug/L								
Dimethoate	ug/L								
Dimethyl phthalate	ug/L								
Dimethylaminoazobenzene	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	<.25	<.25	<.25	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur	ug/L								
Fluoranthene	ug/L								
Fluorene	ug/L								
gamma-BHC [Lindane]	ug/L								
gamma-Chlordane	ug/L								
Heptachlor	ug/L								
Heptachlor Epoxide	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorobutadiene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Hexachloropropene	ug/L								
Indeno [1,2,3-cd] pyrene	ug/L								
Iodomethane	ug/L	<.4	<.4	<.4	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol	ug/L								

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

Table 9

Analytical Data Summary for MW-19

Constituents	8/31/2010	2/16/2011	7/7/2011	10/27/2011	1/23/2012	4/26/2012	10/9/2012	2/20/2013	5/15/2013
Antimony	<6.00	<6.00	<6.00	<6.00		<6.00	<12.00	<6.00	
Arsenic	<1.00	<1.00	72.50	1.21		19.60	3.05	<1.00	
Barium	490	607	4440	639		918	990	1110	1020
Benzene	<.500	<.500	4.590	<.500		<.500	<.500	.987	
Benzo [a] anthracene			<10.0				<10.0		
Benzo [a] pyrene			<10.0				<10.0		
Benzo [b] fluoranthene			<10.0				<10.0		
Benzo [g,h,i] perylene			<10.0				<10.0		
Benzo [k] fluoranthene			<10.0				<10.0		
Benzyl alcohol			<10.0				<10.0		
Beryllium	<1.000	<1.000	<1.000	1.020		<4.000	1.000	<1.000	
beta-BHC			<.0320				<.0320		
Bis[2-chloroethoxy]methane			<10.0				<10.0		
Bis[2-chloroethyl]ether			<10.0				<10.0		
Bis[2-chloroisopropyl]ether			<10.0				<10.0		
Bis[2-ethylhexyl]phthalate			<10				<10		
Bromochloromethane	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		<1.0	<2.0	<1.0	
Bromoform	<5.000	<5.000	<5.000	<5.000		<5.000	<5.000	<5.000	
Bromomethane	<4.000	<4.000	<4.000	<20.000		<50.000	<5.000	<4.000	
Butyl benzyl phthalate			<10.0				<10.0		
Cadmium	.992	2.570	<.500	2.140		4.000	2.220	2.280	
Carbon Disulfide	<4.000	<1.000	<1.000	<1.000		<1.000	<1.000	<1.000	
Carbon Tetrachloride	<5.00	<2.00	<2.00	<2.00		<2.00	<2.00	<2.00	
Chlordane			<2.00				<2.00		
Chlorobenzene	<1.000	<1.000	7.350	<1.000		<1.000	<1.000	<1.000	
Chlorobenzilate			<10.0				<10.0		
Chlorodibromomethane	<10.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	
Chloroethane	<4.000	<4.000	<4.000	<4.000		<4.000	<4.000	<4.000	
Chloroform	<1.00	<1.00	<1.00	<1.00		<1.00	<2.00	<1.00	
Chloromethane	<3.000	<3.000	<3.000	<3.000		<3.000	<3.000	<3.000	
Chloroprene			<1				<1		
Chromium	<20.00	<20.00	39.40	<20.00		21.10	<20.00	<20.00	
Chrysene			<10.0				<10.0		
cis-1,2-Dichloroethene	<1.000	<1.000	<1.000	<1.000		<1.000	<1.000	<1.000	
cis-1,3-Dichloropropene	<10.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	
Cobalt	<1.55	2.14	27.10	3.67		23.50	11.60	22.50	
Copper	<20.000	<20.000	23.200	<20.000		<20.000	<20.000	<20.000	
Cyanide			<.01				<.01		
delta-BHC			<.0320				<.0320		
Diallate [cis or trans]			<10.0				<10.0		
Dibenz [a,h] anthracene			<10.0				<10.0		
Dibenzofuran			<10.0				<10.0		
Dichlorodifluoromethane			<3				<3		
Dieldrin			<.0320				<.0320		
Diethyl phthalate			<10.0				<10.0		
Dimethoate			<10.0				<10.0		
Dimethyl phthalate			<10.0				<10.0		
Dimethylaminoazobenzene			<10.0				<10.0		
Di-n-butyl phthalate			<10.000				<10.000		
Di-n-octyl phthalate			<10.0				<10.0		
Dinoseb			<10.0				<10.0		
Diphenylamine			<10.0				<10.0		
Disulfoton			<10.0				<10.0		
Endosulfan I			<.0320				<.0320		
Endosulfan II			<.0320				<.0320		
Endosulfan sulfate			<.0320				<.0320		
Endrin			<.0320				<.0320		
Endrin aldehyde			<.0320				<.0320		
Ethyl Methacrylate			<2				<2		
Ethyl Methanesulfonate			<10.0				<10.0		
Ethylbenzene	<1.00	<1.00	1.73	<1.00		<1.00	<1.00	<1.00	
Famphur			<20.0				<20.0		
Fluoranthene			<10.0				<10.0		
Fluorene			<10.0				<10.0		
gamma-BHC [Lindane]			<.0320				<.0320		
gamma-Chlordane			.0633				.0633	<.0320	
Heptachlor			<.0320				<.0320		
Heptachlor Epoxide			<.0320				<.0320		
Hexachlorobenzene			<10.0				<10.0		
Hexachlorobutadiene			<10.0				<10.0		
Hexachlorocyclopentadiene			<10.0				<10.0		
Hexachloroethane			<10.0				<10.0		
Hexachloropropene			<10.0				<10.0		
Indeno [1,2,3-cd] pyrene			<10.0				<10.0		
Iodomethane	<10.0	<10.0	<20.0	<20.0		<10.0	<10.0	<10.0	
Isobutanol			<10000				<10000		

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

Table 9

Analytical Data Summary for MW-19

Constituents	10/3/2013	12/18/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017
Antimony	<1.75		<6.00	<6.00	<.77	<1.00	<1.00	<1.00	<1.00
Arsenic	3.81		4.41	1.39	<1.47	<1.27	<2.00	<2.00	<2.00
Barium	1010		1170	1010	978	860	838	792	875
Benzene	1.000		1.210	.996	1.140	.821	.640	<.216	<.500
Benzo [a] anthracene									<10.9
Benzo [a] pyrene									<10.9
Benzo [b] fluoranthene									<10.9
Benzo [g,h,i] perylene									<10.9
Benzo [k] fluoranthene									<10.9
Benzyl alcohol									<10.9
Beryllium	<.320		<.457	<.469	<.076	<1.000	<1.000	<1.000	<1.000
beta-BHC									<.3230
Bis[2-chloroethoxy]methane									<10.9
Bis[2-chloroethyl]ether									<10.9
Bis[2-chloroisopropyl]ether									<10.9
Bis[2-ethylhexyl]phthalate									<2
Bromochloromethane	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<.242		<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Bromomethane	<4.000		<4.000		<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate									<10.9
Cadmium	1.850		2.580	2.930	3.090	<.397	.581	1.390	1.520
Carbon Disulfide	<1.000		<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Carbon Tetrachloride	<2.00		<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlordane									<20.20
Chlorobenzene	<1.000		<.774	<1.000	<.712	<1.000	<.330	<1.000	<1.000
Chlorobenzilate									<10.9
Chlorodibromomethane	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<1.810		<2.020	<4.000	<1.020	<.957	<.657	<4.000	<4.000
Chloroform	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<3.000		<3.000	<3.000	<3.000	<3.000	<.321	<3.000	<3.000
Chloroprene									<1
Chromium	<2.34		<9.70	<20.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chrysene									<10.9
cis-1,2-Dichloroethene	<.744		<.704	<.458	<.958	<.549	<.539	<1.000	<1.000
cis-1,3-Dichloropropene	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	20.30		18.40	19.30	12.70	10.20	9.81	7.08	6.31
Copper	<3.610		<8.400	<6.230	<1.590	<.857	<.681	<5.000	<5.000
Cyanide									<.01
delta-BHC									<.3230
Diallate [cis or trans]									<10.9
Dibenz [a,h] anthracene									<10.9
Dibenzofuran									<10.9
Dichlorodifluoromethane									<3
Dieldrin									<.0428
Diethyl phthalate									<10.9
Dimethoate									<10.9
Dimethyl phthalate									<10.9
Dimethylaminoazobenzene									<10.9
Di-n-butyl phthalate									<.665
Di-n-octyl phthalate									<21.7
Dinoseb									<10.9
Diphenylamine									<10.9
Disulfoton									<10.9
Endosulfan I									<.3230
Endosulfan II									<.3230
Endosulfan sulfate									<.3230
Endrin									<.3230
Endrin aldehyde									<.3230
Ethyl Methacrylate									<2
Ethyl Methanesulfonate									<10.9
Ethylbenzene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur									<21.7
Fluoranthene									<10.9
Fluorene									<10.9
gamma-BHC [Lindane]									<.3230
gamma-Chlordane	.1370	.1240	.1760					<.1740	
Heptachlor									<.3230
Heptachlor Epoxide									<.3230
Hexachlorobenzene									<10.9
Hexachlorobutadiene									<10.9
Hexachlorocyclopentadiene									<21.7
Hexachloroethane									<10.9
Hexachloropropene									<10.9
Indeno [1,2,3-cd] pyrene									<10.9
Iodomethane	<10.0		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol									<10000

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

Table 9

Analytical Data Summary for MW-19

Constituents	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021
Antimony	<1.00	<3.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00
Arsenic	<1.18	3.95	<1.26 *	<2.00	<1.25	<2.00	<1.45	<1.22	<1.44
Barium	978	1120	1040 *	1160	1030	1040	1150	1150	1140
Benzene	.704	<.500	.652 *	<.500	<.275	<.500	.557	.824	.856
Benzo [a] anthracene									
Benzo [a] pyrene									
Benzo [b] fluoranthene									
Benzo [g,h,i] perylene									
Benzo [k] fluoranthene									
Benzyl alcohol									
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC									
Bis[2-chloroethoxy]methane									
Bis[2-chloroethyl]ether									
Bis[2-chloroisopropyl]ether									
Bis[2-ethylhexyl]phthalate									
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Bromomethane	<.861	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate									
Cadmium	<.088	1.480	.594	2.620	<.078	.512	<.100	2.040	<.100
Carbon Disulfide	<.152	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlordane									
Chlorobenzene	<.375	<1.000	<.735 *	<1.000	<1.000	<1.000	<.489	1.210	1.450
Chlorobenzilate									
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<.581	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<1.110	<.840
Chloroform	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloromethane	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000
Chloroprene									
Chromium	<5.00	<3.44	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chrysene									
cis-1,2-Dichloroethene	<.457	<1.000	<.505 *	<1.000	<.228	<1.000	<1.000	<.559	<.412
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	11.40	15.80	16.90 *	13.30	15.50	14.20	20.60	20.10	22.60
Copper	<5.000	2.320	<5.000	<5.000	<3.060	<5.000	<5.000	<5.000	<5.000
Cyanide									
delta-BHC									
Diallate [cis or trans]									
Dibenz [a,h] anthracene									
Dibenzofuran									
Dichlorodifluoromethane									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethyl phthalate									
Dimethylaminoazobenzene									
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	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur									
Fluoranthene									
Fluorene									
gamma-BHC [Lindane]									
gamma-Chlordane	<.0290	<.0207	<.0340	<.0340	<.0328	.0634		.1190	<.0340
Heptachlor									
Heptachlor Epoxide									
Hexachlorobenzene									
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno [1,2,3-cd] pyrene									
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol									

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

Table 9

Analytical Data Summary for MW-19

Constituents	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
Antimony	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00	<1.00
Arsenic	<1.86	<1.27	<1.80 *	<1.63	<1.52	<4.00	<2.00	3.50
Barium	1300	1110	1270 *	1240	1070	966	1240	1040
Benzene	.930	.588	.912	.733	.624	<1.000	<1.000	<1.000
Benzo [a] anthracene	<10.0							
Benzo [a] pyrene	<10.0							
Benzo [b] fluoranthene	<10.0							
Benzo [g,h,i] perylene	<10.0							
Benzo [k] fluoranthene	<10.0							
Benzyl alcohol	<10.0							
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<4.000	<.500	<.500
beta-BHC	<.0696							
Bis[2-chloroethoxy]methane	<10.0							
Bis[2-chloroethyl]ether	<10.0							
Bis[2-chloroisopropyl]ether	<10.0							
Bis[2-ethylhexyl]phthalate	<10							
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.000	<5.000	<5.000	<5.000	<5.000	<1.000	<1.000	<1.000
Bromomethane	<4.000	<4.000	<4.000	<4.000	<4.000	<1.000	<1.000	<1.000
Butyl benzyl phthalate	<10.0							
Cadmium	<.100	<.100	<.100	<.200	<.200	<.800	.300	<.200
Carbon Disulfide	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	3.400
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00	<1.00	<1.00
Chlordane	<2.17							
Chlorobenzene	1.920	<.761	1.875 *	1.490	1.160	1.200	1.400	1.200
Chlorobenzilate	<10.0							
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<1.00	<1.00	<1.00
Chloroethane	<1.120	<4.000	<1.034 *	<4.000	<4.000	<1.000	<1.000	1.200
Chloroform	<3.00	<3.00	<3.00	<3.00	<3.00	<1.00	<1.00	<1.00
Chloromethane	<3.000	<3.000	<3.000	<3.000	<3.000	<1.000	<1.000	<1.000
Chloroprene	<1							
Chromium	<5.00	<5.00	<5.00	<5.00	<5.00	<8.00	2.20	1.30
Chrysene	<10.0							
cis-1,2-Dichloroethene	<.434	<1.000	<.453 *	<.287	<.279	<1.000	<1.000	<1.000
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<1.00	<1.00	<1.00
Cobalt	25.60	21.30	23.55 *	23.80	23.40	19.50	22.60	25.60
Copper	<5.000	<5.000	<5.000	<5.000	<5.000	<4.000	<5.000	<5.000
Cyanide	<.01							
delta-BHC	<.0696							
Diallate [cis or trans]	<10.0							
Dibenz [a,h] anthracene	<10.0							
Dibenzofuran	<10.0							
Dichlorodifluoromethane	<3							
Dieldrin	<.0696							
Diethyl phthalate	<10.0							
Dimethoate	<10.0							
Dimethyl phthalate	<10.0							
Dimethylaminoazobenzene	<10.0							
Di-n-butyl phthalate	<10.000							
Di-n-octyl phthalate	<20.0							
Dinoseb	<10.0							
Diphenylamine	<10.0							
Disulfoton	<10.0							
Endosulfan I	<.0696					<.0500	<.0500	
Endosulfan II	<.0696							
Endosulfan sulfate	<.0696							
Endrin	<.0696							
Endrin aldehyde	<.0696							
Ethyl Methacrylate	<2							
Ethyl Methanesulfonate	<10.0							
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur	<10.0							
Fluoranthene	<10.0							
Fluorene	<10.0							
gamma-BHC [Lindane]	<.0696	<.0640						
gamma-Chlordane				<2.0000	<.0640	<.0500	<.0500	
Heptachlor	<.0696							
Heptachlor Epoxide	<.0696							
Hexachlorobenzene	<10.0							
Hexachlorobutadiene	<10.0							
Hexachlorocyclopentadiene	<10.0							
Hexachloroethane	<10.0							
Hexachloropropene	<10.0							
Indeno [1,2,3-cd] pyrene	<10.0							
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<1.0	<1.0	<1.0
Isobutanol	<10000							

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

Table 9

Analytical Data Summary for MW-19

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	3/11/2010
Isodrin	ug/L								
Isophorone	ug/L								
Isosafrole	ug/L								
Kepone	ug/L								
Lead	ug/L	<4.000	15.600	<4.000	6.980	<4.000	6.500	<4.000	<4.000
MP-Xylene	ug/L								
Mercury	ug/L								
Methacrylonitrile	ug/L								
Methapyrilene	ug/L								
Methoxychlor	ug/L								
Methyl Methacrylate	ug/L								
Methyl Methanesulfonate	ug/L								
Methylene Bromide	ug/L	<.3	<.3	<.3	<1.0	<1.0	<1.0	<1.0	<50.0
Methylene Chloride	ug/L	<.450	<.450	.480	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene	ug/L								
Nickel	ug/L	<50.0	<4.6	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Nitrobenzene	ug/L								
N-Nitrosodiethylamine	ug/L								
N-Nitrosodimethylamine	ug/L								
N-Nitrosodi-n-butylamine	ug/L								
N-Nitrosodi-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								
o-Xylene	ug/L								
Parathion-Ethyl	ug/L								
Parathion-Methyl	ug/L								
PCB-1016	ug/L								
PCB-1221	ug/L								
PCB-1232	ug/L								
PCB-1242	ug/L								
PCB-1248	ug/L								
PCB-1254	ug/L								
PCB-1260	ug/L								
Pentachlorobenzene	ug/L								
Pentachloronitrobenzene	ug/L								
Pentachlorophenol [2C]	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	ug/L	<5.00	<1.44	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	ug/L	<20.00	<2.61	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Styrene	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<5.00
Sulfate	mg/L								
Sulfide	mg/L								
Tetrachloroethene	ug/L	.77	<.38	<.38	<1.00	<1.00	<1.00	<1.00	<5.00
Thallium	ug/L	<2.000	<.700	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Thionazin	ug/L								
Tin	ug/L								
Toluene	ug/L	<.140	<.140	<.140	<1.000	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	mg/L								
Toxaphene	ug/L								
trans-1,2-Dichloroethene	ug/L	<.31	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	ug/L	<.17	<.17	<.17	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	ug/L	<.18	<.18	<.18	<10.0	<10.0	<10.0	<10.0	<50.0
Trichloroethene	ug/L	<.240	<.240	<.240	<1.000	<1.000	<1.000	<1.000	<1.000
Trichlorofluoromethane	ug/L	<.26	<.26	<.26	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	ug/L	<50.000	<1.600	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000
Vinyl Acetate	ug/L	<1.36	<1.36	<1.36	<2.50	<2.00	<2.00	<2.00	<2.00
Vinyl Chloride	ug/L	<.26	<.26	<.26	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	ug/L	<.300	<.300	<.300	<3.000	<3.000	<3.000	<3.000	<7.500
Zinc	ug/L	<20.0	54.2	94.7	23.2	40.6	59.5	120.0	71.9

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

Table 9

Analytical Data Summary for MW-19

Constituents	8/31/2010	2/16/2011	7/7/2011	10/27/2011	1/23/2012	4/26/2012	10/9/2012	2/20/2013	5/15/2013
Isodrin			<10.0				<10.0		
Isophorone			<10.0				<10.0		
Isosafrole			<10.0				<10.0		
Kepone			<10.0				<10.0		
Lead	<4.000	4.340	4.920	4.860		24.900	8.560	4.970	
MP-Xylene							<2	<2	
Mercury			<.200				.428	<.200	
Methacrylonitrile			<1				<2		
Methapyrilene			<10.0				<10.0		
Methoxychlor			<.0320				<.0320		
Methyl Methacrylate			<2				<2		
Methyl Methanesulfonate			<10.0				<10.0		
Methylene Bromide	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	
Methylene Chloride	<5.000	<5.000	<5.000	<5.000		<5.000	<5.000	<5.000	
Naphthalene			5.41	<5.00	<5.00	<5.00	<5.00	<5.00	
Nickel	<50.0	<50.0	127.0	<50.0		59.3	51.4	<50.0	<50.0
Nitrobenzene			<10.0				<10.0		
N-Nitrosodiethylamine			<10.0				<10.0		
N-Nitrosodimethylamine			<10.0				<10.0		
N-Nitrosodi-n-butylamine			<10.0				<10.0		
N-Nitrosodi-n-propylamine			<10.0				<10.0		
N-Nitrosodiphenylamine			<10.0				<10.0		
N-Nitrosomethylethylamine			<10.0				<10.0		
N-Nitrosopiperidine			<10.0				<10.0		
N-Nitrosopyrrolidine			<10.0				<10.0		
O,O,O-Triethyl Phosphorothioate			<10.0				<10.0		
o-Toluidine			<10.0				<10.0		
o-Xylene							<1	<1	
Parathion-Ethyl			<10.0				<10.0		
Parathion-Methyl			<10.0				<10.0		
PCB-1016			<.800				<.800		
PCB-1221			<.800				<.800		
PCB-1232			<.800				<.800		
PCB-1242			<.800				<.800		
PCB-1248			<.800				<.800		
PCB-1254			<.800				<.800		
PCB-1260			<.800				<.800		
Pentachlorobenzene			<10.0				<10.0		
Pentachloronitrobenzene			<10.0				<10.0		
Pentachlorophenol [2C]			<10.0				<10.0		
Phenacetin			<10.0				<10.0		
Phenanthrene			<10.0				<10.0		
Phenol			<10.0				<10.0		
Phorate			<10.0				<10.0		
Pronamide			<10.0				<10.0		
Propionitrile			<10				<10		
Pyrene			<10.0				<10.0		
Safrole			<10.0				<10.0		
Selenium	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	
Silver	<20.00	<20.00	<20.00	<20.00		<20.00	<20.00	<20.00	
Styrene	<4.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
Sulfate									
Sulfide			6.40	<1.00	<1.00	<1.00	2.60	<1.00	<1.00
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
Thallium	<2.000	<2.000	<2.000	<2.000		<2.000	<2.000	<2.000	
Thionazin			<10.0				<10.0		
Tin			<100				<100		
Toluene	<1.000	<1.000	<1.000	<1.000		<1.000	<1.000	<1.000	
Total Suspended Solids									
Toxaphene			<2.00				<2.00		
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
trans-1,3-Dichloropropene	<10.00	<5.00	<10.00	<5.00		<5.00	<5.00	<5.00	
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0	
Trichloroethene	<1.000	<1.000	<1.000	<1.000		<1.000	<1.000	<1.000	
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00		<4.00	<4.00	<4.00	
Vanadium	<50.000	<50.000	<50.000	<50.000		53.200	<50.000	<50.000	
Vinyl Acetate	<2.00	<4.00	<2.00	<2.00		<5.00	<2.00	<2.00	
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
Xylenes, total	<3.000	<3.000	<3.000	<3.000		<3.000	<3.000	<3.000	
Zinc	35.0	<20.0	84.6	42.2		78.6	25.0	88.5	

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

Table 9

Analytical Data Summary for MW-19

Constituents	10/3/2013	12/18/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017
Isodrin									<10.9
Isophorone									<10.9
Isosafrole									<10.9
Kepone									<10.9
Lead	5.590		8.170	7.690	.582	<.500	<.500	<.500	<.500
MP-Xylene									
Mercury	<.196	.332	.263	.335	<.200	<.200	<.200	<.200	<.200
Methacrylonitrile									<10
Methapyrilene									<10.9
Methoxychlor									<.3230
Methyl Methacrylate									<2
Methyl Methanesulfonate									<10.9
Methylene Bromide	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.000		<5.000	<5.000	<5.000	<.181	<.374	<.457	<5.000
Naphthalene	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel	59.0		75.6	79.7	60.3	58.5	53.1	43.4	49.9
Nitrobenzene									<10.9
N-Nitrosodiethylamine									<10.9
N-Nitrosodimethylamine									<10.9
N-Nitrosodi-n-butylamine									<10.9
N-Nitrosodi-n-propylamine									<10.9
N-Nitrosodiphenylamine									<10.9
N-Nitrosomethylethylamine									<10.9
N-Nitrosopiperidine									<10.9
N-Nitrosopyrrolidine									<10.9
O,O,O-Triethyl Phosphorothioate									<10.9
o-Toluidine									<10.9
o-Xylene									
Parathion-Ethyl									<10.9
Parathion-Methyl									<10.9
PCB-1016									<.842
PCB-1221									<.842
PCB-1232									<.842
PCB-1242									<.842
PCB-1248									<.842
PCB-1254									<.842
PCB-1260									<.842
Pentachlorobenzene									<10.9
Pentachloronitrobenzene									<10.9
Pentachlorophenol [2C]									<10.9
Phenacetin									<10.9
Phenanthrene									<10.9
Phenol									<10.9
Phorate									<10.9
Pronamide									<10.9
Propionitrile									<10
Pyrene									<10.9
Safrole									<10.9
Selenium	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	<20.00		<20.00	<20.00	<1.00	<1.00	<1.00	<1.00	<1.00
Styrene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfate									
Sulfide			<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Tetrachloroethene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<2.000		<2.000	<2.000	<.045	<.044	<.035	<1.000	<1.000
Thionazin									<10.9
Tin									<5
Toluene	<1.000		<1.000	<1.000	<1.000	<1.000	<.246	<1.000	<1.000
Total Suspended Solids			190.00	730.00	24.20	12.40	2.63	<.75	<1.00
Toxaphene									<20.20
trans-1,2-Dichloroethene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.000		<1.000	<.291	<1.000	<1.000	<1.000	<1.000	<1.000
Trichlorofluoromethane	<4.00		<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<8.310		<25.800	<9.790	<.893	<.615	<5.000	<5.000	<5.000
Vinyl Acetate	<2.00		<2.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.000		<3.000	<3.000	<3.000	<3.000	<.215	<3.000	<3.000
Zinc	164.0		<20.0	<20.0	<10.0	<10.0	<10.0	<10.0	<20.0

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

Table 9

Analytical Data Summary for MW-19

Constituents	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021
Isodrin									
Isophorone									
Isosafrole									
Kepone									
Lead	<.500	.836	<.500	<.500	<.500	<.500	<.500	<.500	<.500
MP-Xylene									
Mercury	.255	<.200	<.200	<.200	<.200	<.200		<.200	<.200
Methacrylonitrile									
Methapyrilene									
Methoxychlor									
Methyl Methacrylate									
Methyl Methanesulfonate									
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene	<5.00								
Nickel	45.4	60.5	62.7 *	64.5	59.6	58.1	60.4	49.5	56.4
Nitrobenzene									
N-Nitrosodiethylamine									
N-Nitrosodimethylamine									
N-Nitrosodi-n-butylamine									
N-Nitrosodi-n-propylamine									
N-Nitrosodiphenylamine									
N-Nitrosomethylethylamine									
N-Nitrosopiperidine									
N-Nitrosopyrrolidine									
O,O,O-Triethyl Phosphorothioate									
o-Toluidine									
o-Xylene									
Parathion-Ethyl									
Parathion-Methyl									
PCB-1016									
PCB-1221									
PCB-1232									
PCB-1242									
PCB-1248									
PCB-1254									
PCB-1260									
Pentachlorobenzene									
Pentachloronitrobenzene									
Pentachlorophenol [2C]									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Pronamide									
Propionitrile									
Pyrene									
Safrole									
Selenium	<5.00	<2.50	<5.00	<5.00	<5.00	<5.00	<5.00	<1.13	<5.00
Silver	<1.00	<.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfate									
Sulfide	3.09			<1.00	<1.00	<1.00	<10.00		<10.00
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<1.000	<2.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Thionazin									
Tin									
Toluene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	3.25	11.00	3.38 *	<1.88	<3.50	<.75	4.80	<1.13	7.62
Toxaphene									
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<5.000	<3.240	<.659 *	<5.000	<5.000	<5.000	<.974	<5.000	<5.000
Vinyl Acetate	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<.969	<3.000
Zinc	<20.0	<15.3	<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	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
Isodrin	<10.0							
Isophorone	<10.0							
Isosafrole	<10.0							
Kepone	<10.0							
Lead	<.500	<.500	<.500	<.500	<.500	<4.000	<1.000	<1.000
MP-Xylene								
Mercury	<.200	<.200						
Methacrylonitrile	<10							
Methapyrilene	<10.0							
Methoxychlor	<.0696							
Methyl Methacrylate	<2							
Methyl Methanesulfonate	<10.0							
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene	<5.00							
Nickel	64.3	63.8	61.7 *	43.1	59.6	55.7	52.9	57.9
Nitrobenzene	<10.0							
N-Nitrosodiethylamine	<10.0							
N-Nitrosodimethylamine	<10.0							
N-Nitrosodi-n-butylamine	<10.0							
N-Nitrosodi-n-propylamine	<10.0							
N-Nitrosodiphenylamine	<10.0							
N-Nitrosomethylethylamine	<10.0							
N-Nitrosopiperidine	<10.0							
N-Nitrosopyrrolidine	<10.0							
O,O,O-Triethyl Phosphorothioate	<10.0							
o-Toluidine	<10.0							
o-Xylene								
Parathion-Ethyl	<10.0							
Parathion-Methyl	<10.0							
PCB-1016	<.870							
PCB-1221	<.870							
PCB-1232	<.870							
PCB-1242	<.870							
PCB-1248	<.870							
PCB-1254	<.870							
PCB-1260	<.870							
Pentachlorobenzene	<10.0							
Pentachloronitrobenzene	<10.0							
Pentachlorophenol [2C]	<10.0							
Phenacetin	<10.0							
Phenanthrene	<10.0							
Phenol	<10.0							
Phorate	<10.0							
Pronamide	<10.0							
Propionitrile	<10							
Pyrene	<10.0							
Safrole	<10.0							
Selenium	<5.00	<5.00	<5.00	<5.00	<5.00	<4.00	<2.00	<2.00
Silver	<1.00	<1.00	<1.00	<1.00	<1.00	<4.00	<5.00	<5.00
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfate						14.3	13.3	
Sulfide	<1.00	<1.00	<1.00	<1.00	<1.00			<.10
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<1.000	<1.000	<1.000	<1.000	<1.000	<2.000	<.500	<.500
Thionazin	<10.0							
Tin	<5							
Toluene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	1.88	2.50	3.44 *	3.75	5.50			
Toxaphene	<2.17							
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<1.00	<1.00	<1.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0
Trichloroethene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<1.00	<1.00	<1.00
Vanadium	<5.000	<5.000	<5.000	<5.000	<5.000	<20.000	<2.000	<2.000
Vinyl Acetate	<10.00	<10.00	<10.00	<10.00	<10.00	<5.00	<5.00	<5.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<2.000	<2.000	<2.000
Zinc	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	5.8	14.1

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

Table 9

Analytical Data Summary for MW-20

Constituents	Units	9/11/2008	12/10/2008	3/3/2009	8/21/2009	10/21/2009	3/11/2010	8/31/2010	2/16/2011
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	ug/L	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<1	<5	<5	<5	<2	<1	<5	<5
1,1,2-Trichloroethane	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<1.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<2	<10	<10	<10	<2	<2	<10	<10
1,1-Dichloropropene	ug/L				<5			<5	
1,2,3-Trichloropropane	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<2.5	<5.0	<5.0
1,2,4,5-Tetrachlorobenzene	ug/L				<10.0			<10.0	
1,2,4-Trichlorobenzene	ug/L				<25			<25	
1,2-Dibromo-3-Chloropropane	ug/L	<.860	<4.300	<4.300	<50.000	<.498	<.498	<50.000	<.600
1,2-Dibromoethane	ug/L	<.250	<1.250	<1.250	<50.000	<.255	<.255	<50.000	<.650
1,2-Dichlorobenzene	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<1.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<1.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<1.0	<5.0	<5.0
1,3,5-Trinitrobenzene	ug/L				<10.0			<10.0	
1,3-Dichlorobenzene	ug/L				<5			<5	
1,3-Dichloropropane	ug/L				<5			<5	
1,3-Dinitrobenzene	ug/L				<10.0			<10.0	
1,4-Dichlorobenzene	ug/L	<1.00	<5.00	<5.00	<5.00	<2.00	<1.00	<5.00	<5.00
1,4-Naphthoquinone	ug/L				<10.0			<10.0	
1,4-Phenylenediamine	ug/L				<10.0			<10.0	
1-Naphthylamine	ug/L				<10.0			<10.0	
2,2-Dichloropropane	ug/L				<20			<20	
2,3,4,6-Tetrachlorophenol	ug/L				<10.0			<10.0	
2,4,5-T	ug/L								
2,4,5-T [2C]	ug/L				<.200			<.520	
2,4,5-TP [Silvex] [2C]	ug/L				1.20	.86	<1.10	<.52	<5.00
2,4,5-Trichlorophenol	ug/L				<10.0			<10.0	
2,4,6-Trichlorophenol	ug/L				<10.0			<10.0	
2,4-D [2C]	ug/L				<1.00			<1.00	
2,4-Dichlorophenol	ug/L				<10.0			<10.0	
2,4-Dimethylphenol	ug/L				<10.000			<10.000	
2,4-Dinitrophenol	ug/L				<20.0			<20.0	
2,4-Dinitrotoluene	ug/L				<10.0			<10.0	
2,6-Dichlorophenol	ug/L				<10.0			<10.0	
2,6-Dinitrotoluene	ug/L				<10.0			<10.0	
2-Acetylaminofluorene	ug/L				<10.0			<10.0	
2-Butanone	ug/L	<10	<50	<50	<50	<10	<10	<50	<50
2-Chloronaphthalene	ug/L				<10.0			<10.0	
2-Chlorophenol	ug/L				<10.0			<10.0	
2-Hexanone	ug/L	<10	<50	<50	<50	<10	<10	<50	<50
2-Methylnaphthalene	ug/L				<10.0			<10.0	
2-Methylphenol	ug/L				<10.0			<10.0	
2-Naphthylamine	ug/L				<10.0			<10.0	
2-Nitroaniline	ug/L				<10.0			<10.0	
2-Nitrophenol	ug/L				<10.0			<10.0	
3,3-Dichlorobenzidine	ug/L				<10.0			<10.0	
3,3-Dimethylbenzidine	ug/L				<10.0			<10.0	
3/4-Methylphenol	ug/L				<10.000			<10.000	
3-Chloropropene	ug/L				<10			<10	
3-Methylcholanthrene	ug/L				<10.0			<10.0	
3-Nitroaniline	ug/L				<10.0			<10.0	
4,4'-DDD	ug/L				<.03200			.03400	<.32000
4,4'-DDE	ug/L				<.0320			<.0320	
4,4'-DDT	ug/L				<.03200			<.03200	
4,6-Dinitro-2-methylphenol	ug/L				<10.0			<10.0	
4-Aminobiphenyl	ug/L				<10.0			<10.0	
4-Bromophenyl phenyl ether	ug/L				<10.0			<10.0	
4-Chloro-3-methylphenol	ug/L				<10.000			11.000	<10.000
4-Chloroaniline	ug/L				<10.0			<10.0	
4-Chlorophenyl phenyl ether	ug/L				<10.0			<10.0	
4-Methyl-2-Pentanone	ug/L	<10	<50	<50	<50	<10	<10	<50	<50
4-Nitroaniline	ug/L				<10.0			<10.0	
4-Nitrophenol	ug/L				<10.0			<10.0	
5-Nitro-o-toluidine	ug/L				<10.0			<10.0	
7,12-Dimethylbenz [a] anthracene	ug/L				<10.0			<10.0	
Acenaphthene	ug/L				<10.0			<10.0	
Acenaphthylene	ug/L				<10.0			<10.0	
Acetone	ug/L	<10.00	<50.00	<50.00	<50.00	<10.00	17.90	<50.00	100.00
Acetonitrile	ug/L				<10000			<10000	
Acetophenone	ug/L				<10.000			<10.000	
Acrolein	ug/L				<50			<50	
Acrylonitrile	ug/L	<10	<50	<50	<50	<10	<10	<50	<50
Aldrin	ug/L				<.0320			<.0320	
alpha-BHC	ug/L				<.0320			<.0320	
Anthracene	ug/L				<10.000			<10.000	

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

Table 9

Analytical Data Summary for MW-20

Constituents	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013	4/22/2014	10/14/2014	5/12/2015
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<2.1		<1.0	<10.0	<1.0	<1.0
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.2		<1.0	<10.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<5	<5	<5	<1		<1	<10	<1	<1
1,1,2-Trichloroethane	<5.0	<5.0	<10.0	<1.2		<1.0	<10.0	<1.0	<1.0
1,1-Dichloroethane	<5.0	<5.0	<5.0	<2.1		<1.0	<10.0	<1.0	<1.0
1,1-Dichloroethene	<10	<5	<10	<2		<2	<20	<2	<2
1,1-Dichloropropene	<5								
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<1.9		<1.0	<10.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene	<10.0								
1,2,4-Trichlorobenzene	<25								
1,2-Dibromo-3-Chloropropane	<.600	<.200	<.600	<1.200		<.120	<1.200	<.120	<.500
1,2-Dibromoethane	<.650	<.050	<.650	<1.300		<.130	<1.300	<.130	<.130
1,2-Dichlorobenzene	<5.0	<5.0	<5.0	<1.4		<1.0	<10.0	<1.0	<1.0
1,2-Dichloroethane	<5.0	<5.0	<5.0	<1.8		<1.0	<10.0	<1.0	<1.0
1,2-Dichloropropane	<5.0	<5.0	<5.0	<8.7		<1.0	<10.0	<1.0	<1.0
1,3,5-Trinitrobenzene	<10.0								
1,3-Dichlorobenzene	<5								
1,3-Dichloropropane	<5								
1,3-Dinitrobenzene	<10.0								
1,4-Dichlorobenzene	<5.00	<5.00	<5.00	<2.00		2.88	<10.00	1.92	<1.00
1,4-Naphthoquinone	<10.0								
1,4-Phenylenediamine	<10.0								
1-Naphthylamine	<10.0								
2,2-Dichloropropane	<20								
2,3,4,6-Tetrachlorophenol	<10.0								
2,4,5-T									
2,4,5-T [2C]	<1.100								
2,4,5-TP [Silvex] [2C]	<1.10	<1.00	<.29	<1.00		<1.10	<1.01	1.93	<1.08
2,4,5-Trichlorophenol	<10.0								
2,4,6-Trichlorophenol	<10.0								
2,4-D [2C]	<1.10								
2,4-Dichlorophenol	<10.0								
2,4-Dimethylphenol	<10.000								
2,4-Dinitrophenol	<20.0								
2,4-Dinitrotoluene	<10.0								
2,6-Dichlorophenol	<10.0								
2,6-Dinitrotoluene	<10.0								
2-Acetylaminofluorene	<10.0								
2-Butanone	<50	<50	<50	<10		<10	<100	<10	<10
2-Chloronaphthalene	<10.0								
2-Chlorophenol	<10.0								
2-Hexanone	<50	<50	<50	<10		<10	<100	<10	<10
2-Methylnaphthalene	<10.0								
2-Methylphenol	<10.0								
2-Naphthylamine	<10.0								
2-Nitroaniline	<10.0								
2-Nitrophenol	<10.0								
3,3-Dichlorobenzidine	<10.0								
3,3-Dimethylbenzidine	<10.0								
3/4-Methylphenol	<10.000								
3-Chloropropene	<10								
3-Methylcholanthrene	<10.0								
3-Nitroaniline	<10.0								
4,4'-DDD	<.03200	<.03000	.04780	<.03200		<.03270	<.00240	<.00245	<.03200
4,4'-DDE	<.0320								
4,4'-DDT	<.03200								
4,6-Dinitro-2-methylphenol	<10.0								
4-Aminobiphenyl	<10.0								
4-Bromophenyl phenyl ether	<10.0								
4-Chloro-3-methylphenol	<10.000	<10.000	<10.000	<10.000		<1.950	<103.000	<.619	<.590
4-Chloroaniline	<10.0								
4-Chlorophenyl phenyl ether	<10.0								
4-Methyl-2-Pentanone	<50	<50	<50	<10		<10	<100	<10	<10
4-Nitroaniline	<10.0								
4-Nitrophenol	<10.0								
5-Nitro-o-toluidine	<10.0								
7,12-Dimethylbenz [a] anthracene	<10.0								
Acenaphthene	<10.0								
Acenaphthylene	<10.0								
Acetone	<50.00	<50.00	<50.00	24.40		<10.00	<26.70	<10.00	52.10
Acetonitrile	<10000								
Acetophenone	<10.000								
Acrolein	<50								
Acrylonitrile	<50	<25	<50	<10		<10	<100	<10	<10
Aldrin	<.0320								
alpha-BHC	<.0320								
Anthracene	<10.000								

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

Table 9

Analytical Data Summary for MW-20

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	5/31/2017	7/12/2017	11/13/2017	6/6/2018	11/27/2018
1,1,1,2-Tetrachloroethane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1	<10	<1	<1			<10	<1	<1
1,1,2-Trichloroethane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,1-Dichloroethene	<2	<20	<2	<2			<20	<2	<2
1,1-Dichloropropene		<10							
1,2,3-Trichloropropane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene		<10.5							
1,2,4-Trichlorobenzene		<50							
1,2-Dibromo-3-Chloropropane	<.500	<5.000	<.500	<.500			<5.000	<.500	<1.200
1,2-Dibromoethane	<.130	<1.300	<.130	<.130			<1.300	<.130	<.340
1,2-Dichlorobenzene	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,3,5-Trinitrobenzene		<10.5							
1,3-Dichlorobenzene		<10							
1,3-Dichloropropane		<10							
1,3-Dinitrobenzene		<10.5							
1,4-Dichlorobenzene	1.56	<10.00	<1.00	<1.00			<2.82	2.05 *	1.98
1,4-Naphthoquinone		<10.5							
1,4-Phenylenediamine		<10.5							
1-Naphthylamine		<10.5							
2,2-Dichloropropane		<40							
2,3,4,6-Tetrachlorophenol		<10.5							
2,4,5-T									
2,4,5-T [2C]		<5.530							
2,4,5-TP [Silvex] [2C]	<1.08	<5.53	<10.50	<1.24			<1.07	<1.01	<1.09
2,4,5-Trichlorophenol		<10.5							
2,4,6-Trichlorophenol		<10.5							
2,4-D [2C]		<5.53							
2,4-Dichlorophenol		<10.5							
2,4-Dimethylphenol		<.502							
2,4-Dinitrophenol		<21.1							
2,4-Dinitrotoluene		<10.5							
2,6-Dichlorophenol		<10.5							
2,6-Dinitrotoluene		<10.5							
2-Acetylaminofluorene		<10.5							
2-Butanone	<10	<100	<10	<10			<100	<10	<10
2-Chloronaphthalene		<10.5							
2-Chlorophenol		<10.5							
2-Hexanone	<10	<100	<10	<10			<100	<10	<10
2-Methylnaphthalene		<10.5							
2-Methylphenol		<10.5							
2-Naphthylamine		<10.5							
2-Nitroaniline		<10.5							
2-Nitrophenol		<10.5							
3,3-Dichlorobenzidine		<52.6							
3,3-Dimethylbenzidine		<10.5							
3/4-Methylphenol		<.249							
3-Chloropropene		<20							
3-Methylcholanthrene		<10.5							
3-Nitroaniline		<10.5							
4,4'-DDD	<.03270	<.01140		<.17400			<.01020		
4,4'-DDE		<.0333							
4,4'-DDT		<.00459							
4,6-Dinitro-2-methylphenol		<10.5							
4-Aminobiphenyl		<10.5							
4-Bromophenyl phenyl ether		<10.5							
4-Chloro-3-methylphenol	<.576	<10.500	<3.200	<10.200			<4.030		
4-Chloroaniline		<10.5							
4-Chlorophenyl phenyl ether		<10.5							
4-Methyl-2-Pentanone	<10	<100	<10	<10			<100	<10	<10
4-Nitroaniline		<10.5							
4-Nitrophenol		<10.5							
5-Nitro-o-toluidine		<10.5							
7,12-Dimethylbenz [a] anthracene		<10.5							
Acenaphthene		<10.5							
Acenaphthylene		<10.5							
Acetone	<10.00	<100.00	<4.17	<2.73			<23.40	8.18 *	<10.00
Acetonitrile		<10000							
Acetophenone		<.428							
Acrolein		<100							
Acrylonitrile	<10	<100	<10	<10			<100	<10	<10
Aldrin		<.0333							
alpha-BHC		<.0333							
Anthracene		<.325							

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

Table 9

Analytical Data Summary for MW-20

Constituents	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1	<1	<1	<10	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<2	<2	<2	<20	<2	<2	<2	<2	<2
1,1-Dichloropropene					<1				
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene					<10.5				
1,2,4-Trichlorobenzene					<5				
1,2-Dibromo-3-Chloropropane	<1.200	<1.200	<5.000	<50.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.340	<.340	<1.000	<10.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene					<10.5				
1,3-Dichlorobenzene					<1				
1,3-Dichloropropane					<1				
1,3-Dinitrobenzene					<10.5				
1,4-Dichlorobenzene	<1.00	<1.00	1.81	<10.00	<1.00	1.69 *	1.94	1.79	2.40
1,4-Naphthoquinone					<10.5				
1,4-Phenylenediamine					<10.5				
1-Naphthylamine					<10.5				
2,2-Dichloropropane					<4				
2,3,4,6-Tetrachlorophenol					<10.5				
2,4,5-T									
2,4,5-T [2C]					2.800		<1.040	<.600	<.500
2,4,5-TP [Silvex] [2C]	<1.10				<1.08				
2,4,5-Trichlorophenol					<10.5				
2,4,6-Trichlorophenol					<10.5				
2,4-D [2C]					<1.08				
2,4-Dichlorophenol					<10.5				
2,4-Dimethylphenol					<10.500				
2,4-Dinitrophenol					<21.1				
2,4-Dinitrotoluene					<10.5				
2,6-Dichlorophenol					<10.5				
2,6-Dinitrotoluene					<10.5				
2-Acetylaminofluorene					<10.5				
2-Butanone	<10	<10	<10	<100	<10	<10	<10	<10	<10
2-Chloronaphthalene					<10.5				
2-Chlorophenol					<10.5				
2-Hexanone	<10	<10	<10	<100	<10	<10	<10	<10	<10
2-Methylnaphthalene					<10.5				
2-Methylphenol					<10.5				
2-Naphthylamine					<10.5				
2-Nitroaniline					<10.5				
2-Nitrophenol					<10.5				
3,3-Dichlorobenzidine					<10.5				
3,3-Dimethylbenzidine					<10.5				
3/4-Methylphenol					<10.500				
3-Chloropropene					<2				
3-Methylcholanthrene					<10.5				
3-Nitroaniline					<10.5				
4,4'-DDD					<.03480				
4,4'-DDE					<.0348				
4,4'-DDT					<.03480				
4,6-Dinitro-2-methylphenol					<10.5				
4-Aminobiphenyl					<10.5				
4-Bromophenyl phenyl ether					<10.5				
4-Chloro-3-methylphenol					<10.500				
4-Chloroaniline					<10.5				
4-Chlorophenyl phenyl ether					<10.5				
4-Methyl-2-Pentanone	<10	<10	<10	<100	<10	<10	<10	<10	<10
4-Nitroaniline					<10.5				
4-Nitrophenol					<10.5				
5-Nitro-o-toluidine					<10.5				
7,12-Dimethylbenz [a] anthracene					<10.5				
Acenaphthene					<10.5				
Acenaphthylene					<10.5				
Acetone	<7.76	<6.21	<10.00	<100.00	<4.94	<10.00	<10.00	<8.49	<6.42
Acetonitrile					<10000				
Acetophenone					<10.500				
Acrolein					<10				
Acrylonitrile	<10	<10	<5	<50	<5	<5	<5	<5	<5
Aldrin					<.0348				
alpha-BHC					<.0348				
Anthracene					<10.500				

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

Table 9

Analytical Data Summary for MW-20

Constituents	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<2	<2	<1	<1	<1
1,1-Dichloropropene					
1,2,3-Trichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene					
1,2,4-Trichlorobenzene					
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene					
1,3-Dichlorobenzene					
1,3-Dichloropropene					
1,3-Dinitrobenzene					
1,4-Dichlorobenzene	2.48	1.93 *	3.10	1.60	2.40
1,4-Naphthoquinone					
1,4-Phenylenediamine					
1-Naphthylamine					
2,2-Dichloropropene					
2,3,4,6-Tetrachlorophenol					
2,4,5-T			<.5	<.5	
2,4,5-T [2C]	<.994	<.147			
2,4,5-TP [Silvex] [2C]					
2,4,5-Trichlorophenol					
2,4,6-Trichlorophenol					
2,4-D [2C]					
2,4-Dichlorophenol					
2,4-Dimethylphenol					
2,4-Dinitrophenol					
2,4-Dinitrotoluene					
2,6-Dichlorophenol					
2,6-Dinitrotoluene					
2-Acetylaminofluorene					
2-Butanone	<10	<10	<10	<10	<10
2-Chloronaphthalene					
2-Chlorophenol					
2-Hexanone	<10	<10	<5	<5	<5
2-Methylnaphthalene					
2-Methylphenol					
2-Naphthylamine					
2-Nitroaniline					
2-Nitrophenol					
3,3-Dichlorobenzidine					
3,3-Dimethylbenzidine					
3/4-Methylphenol					
3-Chloropropene					
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	<10	<10	<5	<5	<5
4-Nitroaniline					
4-Nitrophenol					
5-Nitro-o-toluidine					
7,12-Dimethylbenz [a] anthracene					
Acenaphthene					
Acenaphthylene					
Acetone	<8.10	<10.00	<10.00	<10.00	<10.00
Acetonitrile					
Acetophenone					
Acrolein					
Acrylonitrile	<5	<5	<5	<5	<5
Aldrin					
alpha-BHC					
Anthracene					

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

Table 9

Analytical Data Summary for MW-20

Constituents	Units	9/11/2008	12/10/2008	3/3/2009	8/21/2009	10/21/2009	3/11/2010	8/31/2010	2/16/2011
Antimony	ug/L	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000	6.450	<6.000
Arsenic	ug/L	6.60	66.30	80.40	108.00	95.00	83.50	20.00	136.00
Barium	ug/L	646	3940	4460	4150	4270	3760	3880	4350
Benzene	ug/L	<.50	4.05	4.15	3.40	.92	3.72	3.80	3.85
Benzo [a] anthracene	ug/L				<10.0			<10.0	
Benzo [a] pyrene	ug/L				<10.0			<10.0	
Benzo [b] fluoranthene	ug/L				<10.0			<10.0	
Benzo [g,h,i] perylene	ug/L				<10.0			<10.0	
Benzo [k] fluoranthene	ug/L				<10.0			<10.0	
Benzyl alcohol	ug/L				<10.0			<10.0	
Beryllium	ug/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
beta-BHC	ug/L				<.0320			<.0320	
Bis[2-chloroethoxy]methane	ug/L				<10.0			<10.0	
Bis[2-chloroethyl]ether	ug/L				<10.0			<10.0	
Bis[2-chloroisopropyl]ether	ug/L				<10.0			<10.0	
Bis[2-ethylhexyl]phthalate	ug/L				<10.0			<10.0	
Bromochloromethane	ug/L	<5	<25	<25	<25	<5	<5	<25	<25
Bromodichloromethane	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0
Bromoform	ug/L	<5	<25	<25	<25	<10	<5	<25	<25
Bromomethane	ug/L	<4.00	<20.00	<20.00	<20.00	<4.00	<4.00	<20.00	<20.00
Butyl benzyl phthalate	ug/L				<10.0			<10.0	
Cadmium	ug/L	14.800	<.500	1.120	6.240	4.040	.685	.520	1.690
Carbon Disulfide	ug/L	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
Carbon Tetrachloride	ug/L	<2.0	<10.0	<10.0	<10.0	<2.0	<10.0	<20.0	<10.0
Chlordane	ug/L				<2.00			<2.00	
Chlorobenzene	ug/L	<1.00	<5.00	6.20	5.00	<2.00	5.81	6.85	7.25
Chlorobenzilate	ug/L				<10.0			<10.0	
Chlorodibromomethane	ug/L	<5	<25	<25	<25	<5	<5	<25	<25
Chloroethane	ug/L	<4.000	<20.000	<20.000	<20.000	<4.000	4.130	<20.000	<20.000
Chloroform	ug/L	<1.00	<12.50	<5.00	<5.00	<2.00	<1.00	<5.00	<5.00
Chloromethane	ug/L	<3.00	<15.00	<15.00	<15.00	<3.00	<3.00	<15.00	<15.00
Chloroprene	ug/L				<5			<5	
Chromium	ug/L	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Chrysene	ug/L				<10.0			<10.0	
cis-1,2-Dichloroethene	ug/L	<1.000	<5.000	<5.000	<5.000	<1.000	<1.000	<5.000	<5.000
cis-1,3-Dichloropropene	ug/L	<5	<25	<25	<25	<5	<5	<25	<25
Cobalt	ug/L	<20.00	23.30	37.50	30.60	25.50	20.60	22.00	25.70
Copper	ug/L	<20.000	<20.000	<20.000	33.400	<20.000	<20.000	<20.000	<20.000
Cyanide	mg/L				<.01			<.01	
delta-BHC	ug/L				<.03200			<.03200	
Diallate [cis or trans]	ug/L				<10.0			<10.0	
Dibenz [a,h] anthracene	ug/L				<10.0			<10.0	
Dibenzofuran	ug/L				<10.0			<10.0	
Dichlorodifluoromethane	ug/L				<15			<15	
Dieldrin	ug/L				<.0320			<.0320	
Diethyl phthalate	ug/L				<10.000			<10.000	
Dimethoate	ug/L				<10.0			<10.0	
Dimethyl phthalate	ug/L				<10.0			<10.0	
Dimethylaminoazobenzene	ug/L				<10.0			<10.0	
Di-n-butyl phthalate	ug/L				<10.00			<10.00	
Di-n-octyl phthalate	ug/L				<10.0			<10.0	
Dinoseb	ug/L				<10.0			<10.0	
Diphenylamine	ug/L				<10.0			<10.0	
Disulfoton	ug/L				<10.0			<10.0	
Endosulfan I	ug/L				<.03200			.07290	<.32000
Endosulfan II	ug/L				<.0320			<.0320	
Endosulfan sulfate	ug/L				<.03200			<.03200	
Endrin	ug/L				<.0320			<.0320	
Endrin aldehyde	ug/L				<.0320			<.0320	
Ethyl Methacrylate	ug/L				<10			<10	
Ethyl Methanesulfonate	ug/L				<10.0			<10.0	
Ethylbenzene	ug/L	<1.000	<5.000	<5.000	<5.000	<2.000	1.440	<5.000	<5.000
Famphur	ug/L				<20.0			<20.0	
Fluoranthene	ug/L				<10.0			<10.0	
Fluorene	ug/L				<10.0			<10.0	
gamma-BHC [Lindane]	ug/L				<.0320			<.0320	
gamma-Chlordane	ug/L								
Heptachlor	ug/L				<.0320			<.0320	
Heptachlor Epoxide	ug/L				<.0320			<.0320	
Hexachlorobenzene	ug/L				<10.0			<10.0	
Hexachlorobutadiene	ug/L				<10.0			<10.0	
Hexachlorocyclopentadiene	ug/L				<10.0			<10.0	
Hexachloroethane	ug/L				<10.0			<10.0	
Hexachloropropene	ug/L				<10.0			<10.0	
Indeno [1,2,3-cd] pyrene	ug/L				<10.0			<10.0	
Iodomethane	ug/L	<10	<50	<50	<50	<10	<10	<10	<50
Isobutanol	ug/L				<10000			<10000	

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

Table 9

Analytical Data Summary for MW-20

Constituents	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013	4/22/2014	10/14/2014	5/12/2015
Antimony	<6.000	<6.000	<12.000	<6.000		<1.310	<6.000	<6.000	<.312
Arsenic	92.60	85.30	49.10	90.40		153.00	111.00	140.00	97.30
Barium	4770	4920	4320	5540		2730	2950	2400	2430
Benzene	3.65	4.30	3.40	4.09		2.89	<2.29	3.89	2.27
Benzo [a] anthracene	<10.0								
Benzo [a] pyrene	<10.0								
Benzo [b] fluoranthene	<10.0								
Benzo [g,h,i] perylene	<10.0								
Benzo [k] fluoranthene	<10.0								
Benzyl alcohol	<10.0								
Beryllium	<1.00	<4.00	<1.00	<1.00		<1.00	<1.00	<1.00	<.09
beta-BHC	<.0320								
Bis[2-chloroethoxy]methane	<10.0								
Bis[2-chloroethyl]ether	<10.0								
Bis[2-chloroisopropyl]ether	<10.0								
Bis[2-ethylhexyl]phthalate	<10.0								
Bromochloromethane	<25	<25	<25	<5		<5	<50	<5	<5
Bromodichloromethane	<5.0	<5.0	<10.0	<1.2		<1.0	<10.0	<1.0	<1.0
Bromoform	<25	<25	<25	<5		<5	<50	<5	<5
Bromomethane	<100.00	<250.00	<25.00	<4.00		<4.00	<40.00	<4.00	<4.00
Butyl benzyl phthalate	<10.0								
Cadmium	.827	1.900	3.950	<.500		.817	.743	.693	.694
Carbon Disulfide	<5.0	<5.0	<5.0	<1.5		<1.0	<10.0	<1.0	<1.0
Carbon Tetrachloride	<10.0	<10.0	<10.0	<2.4		<2.0	<20.0	<2.0	<2.0
Chlordane	<2.00								
Chlorobenzene	7.55	6.90	7.05	7.78		5.57	<10.00	4.54	1.88
Chlorobenzilate	<10.0								
Chlorodibromomethane	<25	<25	<25	<5		<5	<50	<5	<5
Chloroethane	<20.000	<20.000	<20.000	<4.000		<2.210	<40.000	<4.000	<1.520
Chloroform	<5.00	<5.00	<10.00	<2.80		<1.00	<10.00	<1.00	<1.00
Chloromethane	<15.00	<15.00	<15.00	<3.10		<3.00	<30.00	<3.00	<3.00
Chloroprene	<5								
Chromium	<20.00	<20.00	<20.00	<20.00		<4.11	<20.00	24.20	<5.00
Chrysene	<10.0								
cis-1,2-Dichloroethene	<5.000	<5.000	<5.000	<1.300		<.331	<10.000	<1.000	<1.000
cis-1,3-Dichloropropene	<25	<25	<25	<5		<5	<50	<5	<5
Cobalt	28.90	29.20	24.00	38.10		17.40	13.00	14.60	12.70
Copper	21.000	<20.000	<20.000	<20.000		<20.000	<20.000	<3.960	2.180
Cyanide	<.01								
delta-BHC	<.03200								
Diallate [cis or trans]	<10.0								
Dibenz [a,h] anthracene	<10.0								
Dibenzofuran	<10.0								
Dichlorodifluoromethane	<15								
Dieldrin	<.0320								
Diethyl phthalate	<10.000								
Dimethoate	<10.0								
Dimethyl phthalate	<10.0								
Dimethylaminoazobenzene	<10.0								
Di-n-butyl phthalate	<10.00								
Di-n-octyl phthalate	<10.0								
Dinoseb	<10.0								
Diphenylamine	<10.0								
Disulfoton	<10.0								
Endosulfan I	.10800	<.03000	.04490	<.03200		.06320	.07070	.03870	<.01970
Endosulfan II	<.0320								
Endosulfan sulfate	<.03200								
Endrin	<.0320								
Endrin aldehyde	<.0320								
Ethyl Methacrylate	<10								
Ethyl Methanesulfonate	<10.0								
Ethylbenzene	<5.000	<5.000	<5.000	<2.100		<.418	<10.000	<1.000	<1.000
Famphur	<20.0								
Fluoranthene	<10.0								
Fluorene	<10.0								
gamma-BHC [Lindane]	<.0320								
gamma-Chlordane									
Heptachlor	<.0320								
Heptachlor Epoxide	<.0320								
Hexachlorobenzene	<10.0								
Hexachlorobutadiene	<10.0								
Hexachlorocyclopentadiene	<10.0								
Hexachloroethane	<10.0								
Hexachloropropene	<10.0								
Indeno [1,2,3-cd] pyrene	<10.0								
Iodomethane	<100	<50	<50	<10		<10	<100	<10	<10
Isobutanol	<10000								

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

Table 9

Analytical Data Summary for MW-20

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	5/31/2017	7/12/2017	11/13/2017	6/6/2018	11/27/2018
Antimony	<1.000	<217	<333	<1.000			<.392	<3.000	<1.000
Arsenic	77.40	62.80	102.00	61.00			81.10	66.45 *	59.20
Barium	2290	2660	4200	2190			3290	2400 *	1930
Benzene	2.93	<3.38	3.72	2.62			<4.03	2.88 *	3.06
Benzo [a] anthracene		<10.5							
Benzo [a] pyrene		<10.5							
Benzo [b] fluoranthene		<10.5							
Benzo [g,h,i] perylene		<10.5							
Benzo [k] fluoranthene		<10.5							
Benzyl alcohol		<10.5							
Beryllium	<1.00	<1.00	<1.00	<1.00			<1.00	<1.00	<1.00
beta-BHC		<.0214							
Bis[2-chloroethoxy]methane		<10.5							
Bis[2-chloroethyl]ether		<10.5							
Bis[2-chloroisopropyl]ether		<10.5							
Bis[2-ethylhexyl]phthalate		<2.6							
Bromochloromethane	<5	<50	<5	<5			<50	<5	<5
Bromodichloromethane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
Bromoform	<5	<50	<5	<5			<50	<5	<5
Bromomethane	<4.00	<40.00	<4.00	<4.00			<4.83	<4.00	<4.00
Butyl benzyl phthalate		<10.5							
Cadmium	<.500	<.500	<.500	<.500			<.500	<.500	<.500
Carbon Disulfide	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
Carbon Tetrachloride	<2.0	<20.0	<2.0	<2.0			<20.0	<2.0	<2.0
Chlordane		<2.08							
Chlorobenzene	2.83	<10.00	4.59	2.88			<4.13	3.49 *	3.36
Chlorobenzilate		<10.5							
Chlorodibromomethane	<5	<50	<5	<5			<50	<5	<5
Chloroethane	<2.310	<40.000	<1.190	<1.280			<40.000	<1.275 *	<1.510
Chloroform	<1.00	<6.60	<1.00	<1.00			<8.75	<3.00	<3.00
Chloromethane	<3.00	<30.00	<3.00	<3.00			<30.00	<3.00	<3.00
Chloroprene		<10							
Chromium	<5.00	<5.00	<1.86	<5.00			<1.30	<3.93 *	<5.00
Chrysene		<10.5							
cis-1,2-Dichloroethene	<.190	<10.000	<.339	<.268			<10.000	<.272 *	<.387
cis-1,3-Dichloropropene	<5	<50	<5	<5			<50	<5	<5
Cobalt	11.60	9.89	18.70	12.30			13.30	11.85 *	7.96
Copper	<.536	<2.000	<5.000	<5.000			<5.000	<1.370 *	<5.000
Cyanide		<.01							
delta-BHC		<.00386							
Diallate [cis or trans]		<10.5							
Dibenz [a,h] anthracene		<10.5							
Dibenzofuran		<10.5							
Dichlorodifluoromethane		<30							
Dieldrin		<.0333							
Diethyl phthalate		<.779							
Dimethoate		<10.5							
Dimethyl phthalate		<10.5							
Dimethylaminoazobenzene		<10.5							
Di-n-butyl phthalate		<1.15							
Di-n-octyl phthalate		<21.1							
Dinoseb		<10.5							
Diphenylamine		<10.5							
Disulfoton		<10.5							
Endosulfan I	<.03270	.06140	.05380	<.03020			.06960	<.02750	<.02920
Endosulfan II		<.0333							
Endosulfan sulfate		.04510	<.03450	<.17400	<.00777	.06230	<.03400	<.00299	<.00595
Endrin		<.0103	<.0348						
Endrin aldehyde		<.0333							
Ethyl Methacrylate		<20							
Ethyl Methanesulfonate		<10.5							
Ethylbenzene	<1.000	<10.000	<.452	<1.000			<10.000	<1.000	<1.000
Famphur		<21.1							
Fluoranthene		<10.5							
Fluorene		<10.5							
gamma-BHC [Lindane]		<.0333							
gamma-Chlordane									
Heptachlor		.1620	<.0348	<.0246	<.0330	<.0340	<.0340	<.0344	<.0340
Heptachlor Epoxide		<.0333							
Hexachlorobenzene		<10.5							
Hexachlorobutadiene		<10.5							
Hexachlorocyclopentadiene		<21.1							
Hexachloroethane		<10.5							
Hexachloropropene		<10.5							
Indeno [1,2,3-cd] pyrene		<10.5							
Iodomethane	<10	<100	<10	<10			<100	<10	<10
Isobutanol		<10000							

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

Table 9

Analytical Data Summary for MW-20

Constituents	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023
Antimony	<1.000	<1.000	<1.000	<1.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arsenic	43.30	76.30	56.40	63.70	53.00	75.85 *	83.30	<7.78	81.30
Barium	2740	2960	1850	3320	2090	2285 *	2120	2470	3800
Benzene	3.04	3.24	2.00	<3.08	2.04	2.71 *	2.90	2.91	3.14
Benzo [a] anthracene					<10.5				
Benzo [a] pyrene					<10.5				
Benzo [b] fluoranthene					<10.5				
Benzo [g,h,i] perylene					<10.5				
Benzo [k] fluoranthene					<10.5				
Benzyl alcohol					<10.5				
Beryllium	<1.00	<1.00	<1.00	<1.00	<1.00	<4.00	<1.00	<1.00	<1.00
beta-BHC					<.0348				
Bis[2-chloroethoxy]methane					<10.5				
Bis[2-chloroethyl]ether					<10.5				
Bis[2-chloroisopropyl]ether					<10.5				
Bis[2-ethylhexyl]phthalate					<10.5				
Bromochloromethane	<5	<5	<5	<50	<5	<5	<5	<5	<5
Bromodichloromethane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5	<5	<5	<50	<5	<5	<5	<5	<5
Bromomethane	<4.00	<4.00	<4.00	<40.00	<4.00	<4.00	<4.00	<4.00	<4.00
Butyl benzyl phthalate					<10.5				
Cadmium	<.500	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.059
Carbon Disulfide	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	<2.0	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlordane					<2.17				
Chlorobenzene	3.67	3.80	2.69	<10.00	2.29	3.48 *	3.27	3.29	4.44
Chlorobenzilate					<10.5				
Chlorodibromomethane	<5	<5	<5	<50	<5	<5	<5	<5	<5
Chloroethane	<.857	<1.080	<.853	<40.000	<4.000	<2.404 *	<4.000	<4.000	<1.000
Chloroform	<3.00	<3.00	<3.00	<30.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloromethane	<3.00	<1.43	<3.00	<30.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloroprene					<1				
Chromium	<1.14	<1.50	<5.00	<1.61	<5.00	<20.00	<5.00	<5.00	<1.68
Chrysene					<10.5				
cis-1,2-Dichloroethene	<.337	<.331	<.266	<10.000	<.287	<.634 *	<.247	<1.000	<.327
cis-1,3-Dichloropropene	<5	<5	<5	<50	<5	<5	<5	<5	<5
Cobalt	10.40	12.40	7.96	13.00	8.44	9.32 *	9.16	8.82	15.80
Copper	<5.000	<5.000	<5.000	<5.000	<5.000	<20.000	<5.000	<5.000	<5.000
Cyanide					<.01				
delta-BHC					<.03480				
Diallate [cis or trans]					<10.5				
Dibenz [a,h] anthracene					<10.5				
Dibenzofuran					<10.5				
Dichlorodifluoromethane					<3				
Dieldrin					<.0348				
Diethyl phthalate					<10.500				
Dimethoate					<10.5				
Dimethyl phthalate					<10.5				
Dimethylaminoazobenzene					<10.5				
Di-n-butyl phthalate					<10.50				
Di-n-octyl phthalate					<21.1				
Dinoseb					<10.5				
Diphenylamine					<10.5				
Disulfoton					<10.5				
Endosulfan I	<.03350	.03700	<.00264	<.03370	.04720	.04350	<.06670	<.06400	.11200
Endosulfan II					<.0348				
Endosulfan sulfate	<.00703	<.00968	<.00493	<.03370	<.01160	<.03370	<.06670	<.06400	
Endrin					<.0348				
Endrin aldehyde					<.0348				
Ethyl Methacrylate					<2				
Ethyl Methanesulfonate					<10.5				
Ethylbenzene	<1.000	<1.000	<1.000	<10.000	<1.000	<1.000	<1.000	<1.000	<.332
Famphur					<10.5				
Fluoranthene					<10.5				
Fluorene					<10.5				
gamma-BHC [Lindane]					<.0348				
gamma-Chlordane				<.0337					
Heptachlor	<.0337	<.0328	<.0364	<.0337	<.0348				
Heptachlor Epoxide					<.0348				
Hexachlorobenzene					<10.5				
Hexachlorobutadiene					<10.5				
Hexachlorocyclopentadiene					<10.5				
Hexachloroethane					<10.5				
Hexachloropropene					<10.5				
Indeno [1,2,3-cd] pyrene					<10.5				
Iodomethane	<10	<10	<10	<100	<10	<10	<10	<10	<10
Isobutanol					<10000				

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

Table 9

Analytical Data Summary for MW-20

Constituents	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
Antimony	<8.000	<2.000	<2.000	<1.000	<1.000
Arsenic	80.00	112.50 *	77.50	71.20	86.00
Barium	3320	1640 *	2430	1780	2060
Benzene	2.93	2.01 *	3.00	1.70	2.20
Benzo [a] anthracene					
Benzo [a] pyrene					
Benzo [b] fluoranthene					
Benzo [g,h,i] perylene					
Benzo [k] fluoranthene					
Benzyl alcohol					
Beryllium	<1.00	<1.00	<4.00	<.50	<.50
beta-BHC					
Bis[2-chloroethoxy]methane					
Bis[2-chloroethyl]ether					
Bis[2-chloroisopropyl]ether					
Bis[2-ethylhexyl]phthalate					
Bromochloromethane	<5	<5	<1	<1	<1
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5	<5	<1	<1	<1
Bromomethane	<4.00	<4.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate					
Cadmium	<.200	<.200	<.800	<.200	<.200
Carbon Disulfide	<1.0	<1.0	<1.0	<1.0	12.0
Carbon Tetrachloride	<2.0	<2.0	<1.0	<1.0	<1.0
Chlordane					
Chlorobenzene	4.34	2.76 *	4.70	2.30	3.10
Chlorobenzilate					
Chlorodibromomethane	<5	<5	<1	<1	<1
Chloroethane	<4.000	<4.000	<1.000	<1.000	<1.000
Chloroform	<3.00	<3.00	<1.00	<1.00	<1.00
Chloromethane	<3.00	<3.00	<1.00	<1.00	<1.00
Chloroprene					
Chromium	<1.38	<5.00	<8.00	1.50	1.70
Chrysene					
cis-1,2-Dichloroethene	<.406	<1.000	<1.000	<1.000	<1.000
cis-1,3-Dichloropropene	<5	<5	<1	<1	<1
Cobalt	13.10	8.04 *	9.90	3.60	6.70
Copper	<5.000	<5.000	<4.000	<5.000	<5.000
Cyanide					
delta-BHC					
Diallate [cis or trans]					
Dibenz [a,h] anthracene					
Dibenzofuran					
Dichlorodifluoromethane					
Dieldrin					
Diethyl phthalate					
Dimethoate					
Dimethyl phthalate					
Dimethylaminoazobenzene					
Di-n-butyl phthalate					
Di-n-octyl phthalate					
Dinoseb					
Diphenylamine					
Disulfoton					
Endosulfan I	<.06400	<.06400	.13000	<.05000	
Endosulfan II					
Endosulfan sulfate					
Endrin					
Endrin aldehyde					
Ethyl Methacrylate					
Ethyl Methanesulfonate					
Ethylbenzene	<1.000	<1.000	<1.000	<1.000	<1.000
Famphur					
Fluoranthene					
Fluorene					
gamma-BHC [Lindane]					
gamma-Chlordane			<.0500	<.0500	
Heptachlor					
Heptachlor Epoxide					
Hexachlorobenzene					
Hexachlorobutadiene					
Hexachlorocyclopentadiene					
Hexachloroethane					
Hexachloropropene					
Indeno [1,2,3-cd] pyrene					
Iodomethane	<10	<10	<1	<1	<1
Isobutanol					

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

Table 9

Analytical Data Summary for MW-20

Constituents	Units	9/11/2008	12/10/2008	3/3/2009	8/21/2009	10/21/2009	3/11/2010	8/31/2010	2/16/2011
Isodrin	ug/L				<10.0			<10.0	
Isophorone	ug/L				<10.0			<10.0	
Isosafrole	ug/L				<10.0			<10.0	
Kepone	ug/L				<10.0			<10.0	
Lead	ug/L	5.380	<4.000	10.600	27.500	<4.000	7.240	<4.000	12.600
MP-Xylene	ug/L								
Mercury	ug/L				<.200			<.200	
Methacrylonitrile	ug/L				<5			<5	
Methapyrilene	ug/L				<10.0			<10.0	
Methoxychlor	ug/L				<.0320			<.0320	
Methyl Methacrylate	ug/L				<10			<10	
Methyl Methanesulfonate	ug/L				<10.0			<10.0	
Methylene Bromide	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<50.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.000	<25.000	<25.000	<25.000	<5.000	<5.000	<25.000	<25.000
Naphthalene	ug/L				<25			<25	
Nickel	ug/L	<50.0	112.0	140.0	63.2	127.0	98.1	111.0	128.0
Nitrobenzene	ug/L				<10.0			<10.0	
N-Nitrosodiethylamine	ug/L				<10.0			<10.0	
N-Nitrosodimethylamine	ug/L				<10.0			<10.0	
N-Nitrosodi-n-butylamine	ug/L				<10.0			<10.0	
N-Nitrosodi-n-propylamine	ug/L				<10.0			<10.0	
N-Nitrosodiphenylamine	ug/L				<10.0			<10.0	
N-Nitrosomethylethylamine	ug/L				<10.0			<10.0	
N-Nitrosopiperidine	ug/L				<10.0			<10.0	
N-Nitrosopyrrolidine	ug/L				<10.0			<10.0	
O,O,O-Triethyl Phosphorothioate	ug/L				<10.0			<10.0	
o-Toluidine	ug/L				<10.0			<10.0	
o-Xylene	ug/L								
Parathion-Ethyl	ug/L				<10.0			<10.0	
Parathion-Methyl	ug/L				<10.0			<10.0	
PCB-1016	ug/L				<.80			<.80	
PCB-1221	ug/L				<.80			<.80	
PCB-1232	ug/L				<.80			<.80	
PCB-1242	ug/L				<.80			<.80	
PCB-1248	ug/L				<.80			<.80	
PCB-1254	ug/L				<.80			<.80	
PCB-1260	ug/L				<.80			<.80	
Pentachlorobenzene	ug/L				<10.0			<10.0	
Pentachloronitrobenzene	ug/L				<10.0			<10.0	
Pentachlorophenol [2C]	ug/L				<10.00			<10.00	
Phenacetin	ug/L				<10.0			<10.0	
Phenanthrene	ug/L				<10.0			<10.0	
Phenol	ug/L				<10.0			<10.0	
Phorate	ug/L				<10.0			<10.0	
Pronamide	ug/L				<10.0			<10.0	
Propionitrile	ug/L				<50			<50	
Pyrene	ug/L				<10.0			<10.0	
Safrole	ug/L				<10.0			<10.0	
Selenium	ug/L	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	ug/L	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Styrene	ug/L	<1	<5	<5	<5	<2	<5	<5	<5
Sulfate	mg/L								
Sulfide	mg/L				<1.000			2.000	1.100
Tetrachloroethene	ug/L	<1.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0
Thallium	ug/L	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin	ug/L				<10.0			<10.0	
Tin	ug/L				<100			<100	
Toluene	ug/L	<1.000	<5.000	<5.000	<5.000	<1.000	<1.000	<5.000	<5.000
Total Suspended Solids	mg/L								
Toxaphene	ug/L				<2.00			<2.00	
trans-1,2-Dichloroethene	ug/L	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0
trans-1,3-Dichloropropene	ug/L	<5	<25	<25	<25	<5	<5	<25	<25
trans-1,4-Dichloro-2-Butene	ug/L	<10	<50	<50	<50	<10	<50	<50	<50
Trichloroethene	ug/L	<1.000	<5.000	<5.000	<5.000	<1.000	<1.000	<5.000	<5.000
Trichlorofluoromethane	ug/L	<4	<20	<20	<20	<4	<4	<20	<20
Vanadium	ug/L	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00
Vinyl Acetate	ug/L	<2.5	<10.0	<10.0	<10.0	<2.0	<2.0	<10.0	<20.0
Vinyl Chloride	ug/L	<1	<5	<5	<5	<1	<1	<5	<5
Xylenes, total	ug/L	<3.000	<15.000	<15.000	<15.000	<6.000	<7.500	<15.000	<15.000
Zinc	ug/L	52.90	<20.00	198.00	345.00	165.00	157.00	43.50	332.00

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

Table 9

Analytical Data Summary for MW-20

Constituents	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013	4/22/2014	10/14/2014	5/12/2015
Isodrin	<10.0								
Isophorone	<10.0								
Isosafrole	<10.0								
Kepone	<10.0								
Lead	11.100	6.700	<4.000	5.320		4.900	<2.250	<3.270	3.420
MP-Xylene			<10	<2					
Mercury	<.200								
Methacrylonitrile	<5								
Methapyrilene	<10.0								
Methoxychlor	<.0320								
Methyl Methacrylate	<10								
Methyl Methanesulfonate	<10.0								
Methylene Bromide	<5.0	<5.0	<5.0	<1.8		<1.0	<10.0	<1.0	<1.0
Methylene Chloride	<25.000	<25.000	<25.000	<5.000		<5.000	<50.000	<5.000	<5.000
Naphthalene	<25								
Nickel	137.0	147.0	111.0	158.0		76.8	54.1	60.4	20.1
Nitrobenzene	<10.0								
N-Nitrosodiethylamine	<10.0								
N-Nitrosodimethylamine	<10.0								
N-Nitrosodi-n-butylamine	<10.0								
N-Nitrosodi-n-propylamine	<10.0								
N-Nitrosodiphenylamine	<10.0								
N-Nitrosomethylethylamine	<10.0								
N-Nitrosopiperidine	<10.0								
N-Nitrosopyrrolidine	<10.0								
O,O,O-Triethyl Phosphorothioate	<10.0								
o-Toluidine	<10.0								
o-Xylene			<5.0	<1.3					
Parathion-Ethyl	<10.0								
Parathion-Methyl	<10.0								
PCB-1016	<.80								
PCB-1221	<.80								
PCB-1232	<.80								
PCB-1242	<.80								
PCB-1248	<.80								
PCB-1254	<.80								
PCB-1260	<.80								
Pentachlorobenzene	<10.0								
Pentachloronitrobenzene	<10.0								
Pentachlorophenol [2C]	<10.00								
Phenacetin	<10.0								
Phenanthrene	<10.0								
Phenol	<10.0								
Phorate	<10.0								
Pronamide	<10.0								
Propionitrile	<50								
Pyrene	<10.0								
Safrole	<10.0								
Selenium	<5.00	27.40	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00
Silver	<20.000	<20.000	<20.000	<20.000		<20.000	<20.000	<20.000	<.081
Styrene	<5	<5	<5	<1		<1	<10	<1	<1
Sulfate									
Sulfide	3.700	<1.000	1.800	4.940	<1.000	<1.000	<1.000	<1.000	<1.000
Tetrachloroethene	<5.0	<5.0	<5.0	<1.8		<1.0	<10.0	<1.0	<1.0
Thallium	<3.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<1.0
Thionazin	<10.0								
Tin	117	<100	<100	<100		427	<100	127	<5
Toluene	<5.000	<5.000	<5.000	<1.500		<1.000	<10.000	<1.000	<1.000
Total Suspended Solids							118.0	175.0	288.0
Toxaphene	<2.00								
trans-1,2-Dichloroethene	<5.0	<5.0	<5.0	<2.1		<1.0	<10.0	<1.0	<1.0
trans-1,3-Dichloropropene	<25	<25	<25	<5		<5	<50	<5	<5
trans-1,4-Dichloro-2-Butene	<50	<50	<50	<10		<10	<100	<10	<10
Trichloroethene	<5.000	<5.000	<5.000	<1.900		<1.000	<10.000	<.317	<1.000
Trichlorofluoromethane	<20	<20	<20	<4		<4	<40	<4	<4
Vanadium	<50.00	<50.00	<50.00	<50.00		<5.22	<3.92	<5.05	<3.10
Vinyl Acetate	<10.0	<25.0	<10.0	<7.4		<2.0	<20.0	<10.0	<10.0
Vinyl Chloride	<5	<5	<5	<1		<1	<10	<1	<1
Xylenes, total	<15.000	<15.000	<15.000	<3.000		<.376	<30.000	<3.000	<3.000
Zinc	124.00	119.00	71.20	102.00		237.00	<40.00	36.90	37.60

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

Table 9

Analytical Data Summary for MW-20

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	5/31/2017	7/12/2017	11/13/2017	6/6/2018	11/27/2018
Isodrin		<10.5							
Isophorone		<10.5							
Isosafrole		<10.5							
Kepone		<10.5							
Lead	<.500	<.177	<.220	<.500			.819	.411 *	<.469
MP-Xylene									
Mercury		<.118							
Methacrylonitrile		<100							
Methapyrilene		<10.5							
Methoxychlor		<.0333							
Methyl Methacrylate		<20							
Methyl Methanesulfonate		<10.5							
Methylene Bromide	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
Methylene Chloride	<.180	<50.000	<.471	<5.000			<50.000	<5.000	<5.000
Naphthalene		<50							
Nickel	28.8	45.6	83.8	30.9			56.1	34.7 *	16.2
Nitrobenzene		<10.5							
N-Nitrosodiethylamine		<10.5							
N-Nitrosodimethylamine		<10.5							
N-Nitrosodi-n-butylamine		<10.5							
N-Nitrosodi-n-propylamine		<10.5							
N-Nitrosodiphenylamine		<10.5							
N-Nitrosomethylethylamine		<10.5							
N-Nitrosopiperidine		<10.5							
N-Nitrosopyrrolidine		<10.5							
O,O,O-Triethyl Phosphorothioate		<10.5							
o-Toluidine		<10.5							
o-Xylene									
Parathion-Ethyl		<10.5							
Parathion-Methyl		<10.5							
PCB-1016		<.87							
PCB-1221		<.87							
PCB-1232		<.87							
PCB-1242		<.87							
PCB-1248		<.87							
PCB-1254		<.87							
PCB-1260		<.87							
Pentachlorobenzene		<10.5							
Pentachloronitrobenzene		<10.5							
Pentachlorophenol [2C]		<3.17							
Phenacetin		<10.5							
Phenanthrene		<10.5							
Phenol		<10.5							
Phorate		<10.5							
Pronamide		<10.5							
Propionitrile		<100							
Pyrene		<10.5							
Safrole		<10.5							
Selenium	<5.00	<5.00	<5.00	<5.00			<5.00	<2.50	<5.00
Silver	<1.000	<1.000	<1.000	<1.000			<1.000	<.500	<1.000
Styrene	<1	<10	<1	<1			<10	<1	<1
Sulfate									
Sulfide	<1.000	3.260	<1.000	<1.000			4.270	<.672	<1.000
Tetrachloroethene	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
Thallium	<1.0	<1.0	<1.0	<1.0			<1.0	<2.0	<1.0
Thionazin		<10.5							
Tin	<5	<5	<5	<5			<5	<5	<5
Toluene	<.202	<10.000	1.520	<.526			<10.000	1.520 *	<1.000
Total Suspended Solids	118.0	118.0	172.0	80.1	64.0	156.0	133.0	80.7 *	92.0
Toxaphene		<2.08							
trans-1,2-Dichloroethene	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
trans-1,3-Dichloropropene	<5	<50	<5	<5			<50	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<100	<10	<10			<100	<10	<10
Trichloroethene	<1.000	<10.000	<1.000	<1.000			<10.000	<1.000	<1.000
Trichlorofluoromethane	<4	<40	<4	<4			<40	<4	<4
Vanadium	<1.96	<2.67	<3.96	<1.07			<3.07	4.39 *	<1.23
Vinyl Acetate	<10.0	<100.0	<10.0	<10.0			<100.0	<10.0	<10.0
Vinyl Chloride	<1	<10	<1	<1			<10	<1	<1
Xylenes, total	<3.000	<30.000	<2.090	<.805			<2.160	<1.125 *	<.595
Zinc	<10.00	<10.00	<10.00	<17.70			<20.00	<14.61 *	<20.00

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

Table 9

Analytical Data Summary for MW-20

Constituents	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023
Isodrin					<10.5				
Isophorone					<10.5				
Isosafrole					<10.5				
Kepone					<10.5				
Lead	<.500	<.500	<.500	<.500	<.500	<.379 *	<.500	<.500	<.500
MP-Xylene									
Mercury				<.200	<.200				
Methacrylonitrile					<10				
Methapyrilene					<10.5				
Methoxychlor					<.0348				
Methyl Methacrylate					<2				
Methyl Methanesulfonate					<10.5				
Methylene Bromide	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.000	<5.000	<5.000	<50.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene					<5				
Nickel	46.0	58.2	12.0	71.6	20.5	42.2 *	31.2	65.0	78.7
Nitrobenzene					<10.5				
N-Nitrosodiethylamine					<10.5				
N-Nitrosodimethylamine					<10.5				
N-Nitrosodi-n-butylamine					<10.5				
N-Nitrosodi-n-propylamine					<10.5				
N-Nitrosodiphenylamine					<10.5				
N-Nitrosomethylethylamine					<10.5				
N-Nitrosopiperidine					<10.5				
N-Nitrosopyrrolidine					<10.5				
O,O,O-Triethyl Phosphorothioate					<10.5				
o-Toluidine					<10.5				
o-Xylene									
Parathion-Ethyl					<10.5				
Parathion-Methyl					<10.5				
PCB-1016					<.87				
PCB-1221					<.87				
PCB-1232					<.87				
PCB-1242					<.87				
PCB-1248					<.87				
PCB-1254					<.87				
PCB-1260					<.87				
Pentachlorobenzene					<10.5				
Pentachloronitrobenzene					<10.5				
Pentachlorophenol [2C]					<10.50				
Phenacetin					<10.5				
Phenanthrene					<10.5				
Phenol					<10.5				
Phorate					<10.5				
Pronamide					<10.5				
Propionitrile					<10				
Pyrene					<10.5				
Safrole					<10.5				
Selenium	<5.00	<5.00	<5.00	<5.00	<1.39	<5.00	<5.00	<5.00	<1.08
Silver	<1.000	<1.000	<1.000	<1.000	<1.000	<4.000	<1.000	<1.000	<1.000
Styrene	<1	<1	<1	<10	<1	<1	<1	<1	<1
Sulfate									
Sulfide	<1.000	<1.000	<1.000	<10.000	12.700	<10.000	<1.000	<1.000	<1.000
Tetrachloroethene	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Thallium	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
Thionazin					<10.5				
Tin	<5	<5			<5				
Toluene	1.110	1.810	<1.000	<10.000	<1.000	<.650 *	<1.000	<.752	<.701
Total Suspended Solids	102.0	114.0	130.0	112.0	109.0	102.2 *	123.0	100.0	114.0
Toxaphene					<2.17				
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<5	<5	<5	<50	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<100	<10	<10	<10	<10	<10
Trichloroethene	<1.000	<1.000	<1.000	<10.000	<1.000	<1.000	<1.000	<1.000	<1.000
Trichlorofluoromethane	<4	<4	<4	<40	<4	<4	<4	<4	<4
Vanadium	<1.93	<3.57	<1.09	<4.60	<1.64	<20.00	<2.59	<5.00	<3.79
Vinyl Acetate	<10.0	<10.0	<10.0	<100.0	<10.0	<10.0	<10.0	<10.0	<10.0
Vinyl Chloride	<1	<1	<1	<10	<1	<1	<1	<1	<1
Xylenes, total	<1.200	<1.230	<3.000	<30.000	<1.350	<1.739 *	<3.000	<3.000	<.551
Zinc	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 9

Analytical Data Summary for MW-20

Constituents	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
Isodrin					
Isophorone					
Isosafrole					
Kepone					
Lead	<.500	<.500	<4.000	<1.000	<1.000
MP-Xylene					
Mercury					
Methacrylonitrile					
Methapyrilene					
Methoxychlor					
Methyl Methacrylate					
Methyl Methanesulfonate					
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene					
Nickel	48.7	14.4 *	50.8	9.5	28.0
Nitrobenzene					
N-Nitrosodiethylamine					
N-Nitrosodimethylamine					
N-Nitrosodi-n-butylamine					
N-Nitrosodi-n-propylamine					
N-Nitrosodiphenylamine					
N-Nitrosomethylethylamine					
N-Nitrosopiperidine					
N-Nitrosopyrrolidine					
O,O,O-Triethyl Phosphorothioate					
o-Toluidine					
o-Xylene					
Parathion-Ethyl					
Parathion-Methyl					
PCB-1016					
PCB-1221					
PCB-1232					
PCB-1242					
PCB-1248					
PCB-1254					
PCB-1260					
Pentachlorobenzene					
Pentachloronitrobenzene					
Pentachlorophenol [2C]					
Phenacetin					
Phenanthrene					
Phenol					
Phorate					
Pronamide					
Propionitrile					
Pyrene					
Safrole					
Selenium	<5.00	<5.00	<4.00	<2.00	<2.00
Silver	<1.000	<1.000	<4.000	<5.000	<5.000
Styrene	<1	<1	<1	<1	<1
Sulfate			<1	<1	
Sulfide	<1.000	<1.000			<.100
Tetrachloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Thallium	<1.0	<1.0	<2.0	<.5	<.5
Thionazin					
Tin					
Toluene	<.790	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	151.0	33.8 *			
Toxaphene					
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<5	<5	<1	<1	<1
trans-1,4-Dichloro-2-Butene	<10	<10	<5	<5	<5
Trichloroethene	<1.000	<1.000	<1.000	<1.000	<1.000
Trichlorofluoromethane	<4	<4	<1	<1	<1
Vanadium	<3.68	<1.25 *	<20.00	2.20	2.50
Vinyl Acetate	<10.0	<10.0	<5.0	<5.0	<5.0
Vinyl Chloride	<1	<1	<1	<1	<1
Xylenes, total	<3.000	<3.000	<2.000	<2.000	<2.000
Zinc	<20.00	<20.00	<20.00	<5.00	11.20

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

Table 9

Analytical Data Summary for MW-21

Constituents	Units	12/23/2008	3/3/2009	8/21/2009	12/15/2009	3/11/2010	8/31/2010	2/16/2011	7/7/2011
1,1,1,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<5	<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-Dichloroethene	ug/L	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene	ug/L								<1
1,2,3-Trichloropropane	ug/L	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<2.0
1,2,4,5-Tetrachlorobenzene	ug/L								<10.0
1,2,4-Trichlorobenzene	ug/L								<5
1,2-Dibromo-3-Chloropropane	ug/L	<.860	<.860	<.498	<.498	<.498	<.498	<.120	<10.000
1,2-Dibromoethane	ug/L	<.250	<.250	<.255	<.255	<.255	<.255	<.130	<10.000
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
1,3,5-Trinitrobenzene	ug/L								<10.0
1,3-Dichlorobenzene	ug/L								<1
1,3-Dichloropropane	ug/L								<1
1,3-Dinitrobenzene	ug/L								<10.0
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone	ug/L								<10.0
1,4-Phenylenediamine	ug/L								<10.0
1-Naphthylamine	ug/L								<10.0
2,2-Dichloropropane	ug/L								<4
2,3,4,6-Tetrachlorophenol	ug/L								<10.0
2,4,5-T [2C]	ug/L								<.24
2,4,5-TP [Silvex] [2C]	ug/L								<.24
2,4,5-Trichlorophenol	ug/L								<10.0
2,4,6-Trichlorophenol	ug/L								<10.0
2,4-D [2C]	ug/L								<.45
2,4-Dichlorophenol	ug/L								<10.0
2,4-Dimethylphenol	ug/L								<10.0
2,4-Dinitrophenol	ug/L								<20.0
2,4-Dinitrotoluene	ug/L								<10.0
2,6-Dichlorophenol	ug/L								<10.0
2,6-Dinitrotoluene	ug/L								<10.0
2-Acetylaminofluorene	ug/L								<10.0
2-Butanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	ug/L								<10.0
2-Chlorophenol	ug/L								<10.0
2-Hexanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	ug/L								<10.0
2-Methylphenol	ug/L								<10.0
2-Naphthylamine	ug/L								<10.0
2-Nitroaniline	ug/L								<10.0
2-Nitrophenol	ug/L								<10.0
3,3-Dichlorobenzidine	ug/L								<10.0
3,3-Dimethylbenzidine	ug/L								<10.0
3/4-Methylphenol	ug/L								<10.0
3-Chloropropene	ug/L								<2
3-Methylcholanthrene	ug/L								<10.0
3-Nitroaniline	ug/L								<10.0
4,4'-DDD	ug/L								<.03200
4,4'-DDE	ug/L								<.032
4,4'-DDT	ug/L								<.03200
4,6-Dinitro-2-methylphenol	ug/L								<10.0
4-Aminobiphenyl	ug/L								<10.0
4-Bromophenyl phenyl ether	ug/L								<10.0
4-Chloro-3-methylphenol	ug/L								<10.0
4-Chloroaniline	ug/L								<10.0
4-Chlorophenyl phenyl ether	ug/L								<10.0
4-Methyl-2-Pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline	ug/L								<10.0
4-Nitrophenol	ug/L								<10.0
5-Nitro-o-toluidine	ug/L								<10.0
7,12-Dimethylbenz [a] anthracene	ug/L								<10.0
Acenaphthene	ug/L								<10.0
Acenaphthylene	ug/L								<10.0
Acetone	ug/L	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L								<10000
Acetophenone	ug/L								<10.0
Acrolein	ug/L								<10
Acrylonitrile	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Aldrin	ug/L								<.032
alpha-BHC	ug/L								<.032
alpha-Chlordane	ug/L								
Anthracene	ug/L								<10.0

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

Table 9

Analytical Data Summary for MW-21

Constituents	10/27/2011	1/23/2012	4/26/2012	10/9/2012	2/20/2013	10/3/2013	12/18/2013	4/22/2014	5/12/2015
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	<2	<1	<1		<1	<1
1,1-Dichloroethane	<1		<1	<1	<1	<1		<1	<1
1,1-Dichloroethene	<2		<1	<2	<2	<2		<2	<2
1,1-Dichloropropene				<1					
1,2,3-Trichloropropane	<1.0		<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
1,2,4,5-Tetrachlorobenzene				<33.0					
1,2,4-Trichlorobenzene				<5					
1,2-Dibromo-3-Chloropropane	<.120		<.200	<.120	<.120	<.120		<.120	<.500
1,2-Dibromoethane	<.130		<.050	<.130	<.130	<.130		<.130	<.130
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
1,3,5-Trinitrobenzene				<33.0					
1,3-Dichlorobenzene				<1					
1,3-Dichloropropane				<1					
1,3-Dinitrobenzene				<33.0					
1,4-Dichlorobenzene	<1		<1	<1	<1	<1		<1	<1
1,4-Naphthoquinone				<33.0					
1,4-Phenylenediamine				<33.0					
1-Naphthylamine				<33.0					
2,2-Dichloropropane				<4					
2,3,4,6-Tetrachlorophenol				<33.0					
2,4,5-T [2C]				<.48					
2,4,5-TP [Silvex] [2C]				<.32					
2,4,5-Trichlorophenol				<33.0					
2,4,6-Trichlorophenol				<33.0					
2,4-D [2C]				<.52					
2,4-Dichlorophenol				<33.0					
2,4-Dimethylphenol				<33.0					
2,4-Dinitrophenol				<65.9					
2,4-Dinitrotoluene				<33.0					
2,6-Dichlorophenol				<33.0					
2,6-Dinitrotoluene				<33.0					
2-Acetylaminofluorene				<33.0					
2-Butanone	<10		<10	<10	<10	<10		<10	<10
2-Chloronaphthalene				<33.0					
2-Chlorophenol				<33.0					
2-Hexanone	<10		<10	<10	<10	<10		<10	<10
2-Methylnaphthalene				<33.0					
2-Methylphenol				<33.0					
2-Naphthylamine				<33.0					
2-Nitroaniline				<33.0					
2-Nitrophenol				<33.0					
3,3-Dichlorobenzidine				<33.0					
3,3-Dimethylbenzidine				<33.0					
3/4-Methylphenol				<33.0					
3-Chloropropene				<2					
3-Methylcholanthrene				<33.0					
3-Nitroaniline				<33.0					
4,4'-DDD				<.06400					
4,4'-DDE				<.064					
4,4'-DDT				<.06400					
4,6-Dinitro-2-methylphenol				<33.0					
4-Aminobiphenyl				<33.0					
4-Bromophenyl phenyl ether				<33.0					
4-Chloro-3-methylphenol				<33.0					
4-Chloroaniline				<33.0					
4-Chlorophenyl phenyl ether				<33.0					
4-Methyl-2-Pentanone	<10		<10	<10	<10	<10		<10	<10
4-Nitroaniline				<33.0					
4-Nitrophenol				<33.0					
5-Nitro-o-toluidine				<33.0					
7,12-Dimethylbenz [a] anthracene				<33.0					
Acenaphthene				<33.0					
Acenaphthylene				<33.0					
Acetone	10.20		<10.00	<10.00	<10.00	<10.00		<10.00	<10.00
Acetonitrile				<10000					
Acetophenone				<33.0					
Acrolein				<10					
Acrylonitrile	<10		<5	<10	<10	<10		<10	<10
Aldrin				<.064					
alpha-BHC				<.064					
alpha-Chlordane				<.064					
Anthracene				<33.0					

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

Table 9

Analytical Data Summary for MW-21

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/27/2018	3/18/2019	12/2/2019
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-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene				<1					
1,2,3-Trichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene				<10.0					
1,2,4-Trichlorobenzene				<5					
1,2-Dibromo-3-Chloropropane	<.500	<.500	<.500	<.500	<.500	<.500	<1.200	<1.200	<1.200
1,2-Dibromoethane	<.130	<.130	<.130	<.130	<.130	<.130	<.340	<.340	<.340
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
1,3,5-Trinitrobenzene				<10.0					
1,3-Dichlorobenzene				<1					
1,3-Dichloropropane				<1					
1,3-Dinitrobenzene				<10.0					
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone				<10.0					
1,4-Phenylenediamine				<10.0					
1-Naphthylamine				<10.0					
2,2-Dichloropropane				<4					
2,3,4,6-Tetrachlorophenol				<10.0					
2,4,5-T [2C]				<1.29					
2,4,5-TP [Silvex] [2C]				<1.29					
2,4,5-Trichlorophenol				<10.0					
2,4,6-Trichlorophenol				<10.0					
2,4-D [2C]				<1.29					
2,4-Dichlorophenol				<10.0					
2,4-Dimethylphenol				<10.0					
2,4-Dinitrophenol				<20.0					
2,4-Dinitrotoluene				<10.0					
2,6-Dichlorophenol				<10.0					
2,6-Dinitrotoluene				<10.0					
2-Acetylaminofluorene				<10.0					
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene				<10.0					
2-Chlorophenol				<10.0					
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene				<10.0					
2-Methylphenol				<10.0					
2-Naphthylamine				<10.0					
2-Nitroaniline				<10.0					
2-Nitrophenol				<10.0					
3,3-Dichlorobenzidine				<50.0					
3,3-Dimethylbenzidine				<10.0					
3/4-Methylphenol				<10.0					
3-Chloropropene				<2					
3-Methylcholanthrene				<10.0					
3-Nitroaniline				<10.0					
4,4'-DDD				<.00262					
4,4'-DDE				<.032					
4,4'-DDT				<.00523					
4,6-Dinitro-2-methylphenol				<10.0					
4-Aminobiphenyl				<10.0					
4-Bromophenyl phenyl ether				<10.0					
4-Chloro-3-methylphenol				<10.0					
4-Chloroaniline				<10.0					
4-Chlorophenyl phenyl ether				<10.0					
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline				<10.0					
4-Nitrophenol				<10.0					
5-Nitro-o-toluidine				<10.0					
7,12-Dimethylbenz [a] anthracene				<10.0					
Acenaphthene				<10.0					
Acenaphthylene				<10.0					
Acetone	<10.00	<10.00	<10.00	<10.00	<4.17	<10.00	<10.00	<3.39	12.20
Acetonitrile				<100000					
Acetophenone				<10.0					
Acrolein				<10					
Acrylonitrile	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aldrin				<.032					
alpha-BHC				<.032					
alpha-Chlordane									
Anthracene				<10.0					

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

Table 9

Analytical Data Summary for MW-21

Constituents	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024
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-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene					<1				
1,2,3-Trichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene					<10.9				
1,2,4-Trichlorobenzene					<5				
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
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
1,3,5-Trinitrobenzene					<10.9				
1,3-Dichlorobenzene					<1				
1,3-Dichloropropane					<1				
1,3-Dinitrobenzene					<10.9				
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone					<10.9				
1,4-Phenylenediamine					<10.9				
1-Naphthylamine					<10.9				
2,2-Dichloropropane					<4				
2,3,4,6-Tetrachlorophenol					<10.9				
2,4,5-T [2C]					<1.04				
2,4,5-TP [Silvex] [2C]					<1.04				
2,4,5-Trichlorophenol					<10.9				
2,4,6-Trichlorophenol					<10.9				
2,4-D [2C]					<1.04				
2,4-Dichlorophenol					<10.9				
2,4-Dimethylphenol					<10.9				
2,4-Dinitrophenol					<21.7				
2,4-Dinitrotoluene					<10.9				
2,6-Dichlorophenol					<10.9				
2,6-Dinitrotoluene					<10.9				
2-Acetylaminofluorene					<10.9				
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene					<10.9				
2-Chlorophenol					<10.9				
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene					<10.9				
2-Methylphenol					<10.9				
2-Naphthylamine					<10.9				
2-Nitroaniline					<10.9				
2-Nitrophenol					<10.9				
3,3-Dichlorobenzidine					<10.9				
3,3-Dimethylbenzidine					<10.9				
3/4-Methylphenol					<10.9				
3-Chloropropene					<2				
3-Methylcholanthrene					<10.9				
3-Nitroaniline					<10.9				
4,4'-DDD					<.06400				
4,4'-DDE					<.064				
4,4'-DDT					<.06400				
4,6-Dinitro-2-methylphenol					<10.9				
4-Aminobiphenyl					<10.9				
4-Bromophenyl phenyl ether					<10.9				
4-Chloro-3-methylphenol					<10.9				
4-Chloroaniline					<10.9				
4-Chlorophenyl phenyl ether					<10.9				
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline					<10.9				
4-Nitrophenol					<10.9				
5-Nitro-o-toluidine					<10.9				
7,12-Dimethylbenz [a] anthracene					<10.9				
Acenaphthene					<10.9				
Acenaphthylene					<10.9				
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile					<10000				
Acetophenone					<10.9				
Acrolein					<10				
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin					<.064				
alpha-BHC					<.064				
alpha-Chlordane									
Anthracene					<10.9				

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

Table 9

Analytical Data Summary for MW-21

Constituents	10/15/2024	4/16/2025	10/27/2025
1,1,1,2-Tetrachloroethane	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1
1,1-Dichloroethene	<1	<1	<1
1,1-Dichloropropene			
1,2,3-Trichloropropene	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene			
1,2,4-Trichlorobenzene			
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1
1,3,5-Trinitrobenzene			
1,3-Dichlorobenzene			
1,3-Dichloropropane			
1,3-Dinitrobenzene			
1,4-Dichlorobenzene	<1	<1	<1
1,4-Naphthoquinone			
1,4-Phenylenediamine			
1-Naphthylamine			
2,2-Dichloropropane			
2,3,4,6-Tetrachlorophenol			
2,4,5-T [2C]			
2,4,5-TP [Silvex] [2C]			
2,4,5-Trichlorophenol			
2,4,6-Trichlorophenol			
2,4-D [2C]			
2,4-Dichlorophenol			
2,4-Dimethylphenol			
2,4-Dinitrophenol			
2,4-Dinitrotoluene			
2,6-Dichlorophenol			
2,6-Dinitrotoluene			
2-Acetylaminofluorene			
2-Butanone	<10	<10	<10
2-Chloronaphthalene			
2-Chlorophenol			
2-Hexanone	<5	<5	<5
2-Methylnaphthalene			
2-Methylphenol			
2-Naphthylamine			
2-Nitroaniline			
2-Nitrophenol			
3,3-Dichlorobenzidine			
3,3-Dimethylbenzidine			
3/4-Methylphenol			
3-Chloropropene			
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	<5	<5	<5
4-Nitroaniline			
4-Nitrophenol			
5-Nitro-o-toluidine			
7,12-Dimethylbenz [a] anthracene			
Acenaphthene			
Acenaphthylene			
Acetone	<10.00	<10.00	<10.00
Acetonitrile			
Acetophenone			
Acrolein			
Acrylonitrile	<5	<5	<5
Aldrin			
alpha-BHC			
alpha-Chlordane			
Anthracene			

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

Table 9

Analytical Data Summary for MW-21

Constituents	Units	12/23/2008	3/3/2009	8/21/2009	12/15/2009	3/11/2010	8/31/2010	2/16/2011	7/7/2011
Antimony	ug/L	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00
Arsenic	ug/L	<1.000	<1.000	<1.000	1.190	<1.000	<1.000	<1.000	<1.000
Barium	ug/L	732	782	679	630	841	801	743	699
Benzene	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Benzo [a] anthracene	ug/L								<10.0
Benzo [a] pyrene	ug/L								<10.0
Benzo [b] fluoranthene	ug/L								<10.0
Benzo [g,h,i] perylene	ug/L								<10.0
Benzo [k] fluoranthene	ug/L								<10.0
Benzyl alcohol	ug/L								<10.0
Beryllium	ug/L	<1.000	1.230	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC	ug/L								<.032
Bis[2-chloroethoxy]methane	ug/L								<10.0
Bis[2-chloroethyl]ether	ug/L								<10.0
Bis[2-chloroisopropyl]ether	ug/L								<10.0
Bis[2-ethylhexyl]phthalate	ug/L								<10.00
Bromochloromethane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	ug/L	<1	<1	<1	<5	<5	<1	<1	<1
Bromoform	ug/L	<5	<5	<5	<20	<5	<5	<5	<5
Bromomethane	ug/L	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate	ug/L								<10.0
Cadmium	ug/L	1.250	.974	<.500	<.500	2.000	.661	.861	<.500
Carbon Disulfide	ug/L	<1.000	<1.000	<1.000	<5.000	<1.000	<4.000	<1.000	<1.000
Carbon Tetrachloride	ug/L	<2	<2	<2	<5	<10	<5	<2	<2
Chlordane	ug/L								<2
Chlorobenzene	ug/L	<1	<1	<1	<1	<5	<1	<1	<1
Chlorobenzilate	ug/L								<10.0
Chlorodibromomethane	ug/L	<5	<5	<5	<5	<5	<10	<5	<5
Chloroethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloroprene	ug/L								<1
Chromium	ug/L	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Chrysene	ug/L								<10.0
cis-1,2-Dichloroethene	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
cis-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5	<10	<5	<5
Cobalt	ug/L	<20.000	<20.000	<20.000	<20.000	4.990	10.000	3.400	7.100
Copper	ug/L	<20.00	21.10	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Cyanide	mg/L								<.01
delta-BHC	ug/L								<.032
Diallate [cis or trans]	ug/L								<10.0
Dibenz [a,h] anthracene	ug/L								<10.0
Dibenzofuran	ug/L								<10.0
Dichlorodifluoromethane	ug/L								<3
Dieldrin	ug/L								<.032
Diethyl phthalate	ug/L								<10.0
Dimethoate	ug/L								<10.0
Dimethyl phthalate	ug/L								<10.0
Dimethylaminoazobenzene	ug/L								<10.0
Di-n-butyl phthalate	ug/L								<10.000
Di-n-octyl phthalate	ug/L								<10.0
Dinoseb	ug/L								<10.0
Diphenylamine	ug/L								<10.0
Disulfoton	ug/L								<10.0
Endosulfan I	ug/L								<.032
Endosulfan II	ug/L								<.032
Endosulfan sulfate	ug/L								<.03200
Endrin	ug/L								<.032
Endrin aldehyde	ug/L								<.032
Ethyl Methacrylate	ug/L								<2
Ethyl Methanesulfonate	ug/L								<10.0
Ethylbenzene	ug/L	<1	<1	<1	<2	<1	<1	<1	<1
Famphur	ug/L								<20.0
Fluoranthene	ug/L								<10.0
Fluorene	ug/L								<10.0
gamma-BHC [Lindane]	ug/L								<.032
gamma-Chlordane	ug/L								
Heptachlor	ug/L								<.032
Heptachlor Epoxide	ug/L								<.032
Hexachlorobenzene	ug/L								<10.0
Hexachlorobutadiene	ug/L								<10.0
Hexachlorocyclopentadiene	ug/L								<10.0
Hexachloroethane	ug/L								<10.0
Hexachloropropene	ug/L								<10.0
Indeno [1,2,3-cd] pyrene	ug/L								<10.0
Iodomethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<20
Isobutanol	ug/L								<10000

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

Table 9

Analytical Data Summary for MW-21

Constituents	10/27/2011	1/23/2012	4/26/2012	10/9/2012	2/20/2013	10/3/2013	12/18/2013	4/22/2014	5/12/2015
Antimony	<6.00		<6.00	<12.00	<6.00	<1.16		<6.00	<1.00
Arsenic	<1.000		46.300	1.950	<1.000	4.610		<1.000	<2.000
Barium	633		1970	945	1080	1390		1110	929
Benzene	<.5		<.5	<.5	<.5	<.5		<.5	<.5
Benzo [a] anthracene				<33.0					
Benzo [a] pyrene				<33.0					
Benzo [b] fluoranthene				<33.0					
Benzo [g,h,i] perylene				<33.0					
Benzo [k] fluoranthene				<33.0					
Benzyl alcohol				<33.0					
Beryllium	<1.000		10.400	<1.000	<1.000	<.660		<.246	<1.000
beta-BHC				<.064					
Bis[2-chloroethoxy]methane				<33.0					
Bis[2-chloroethyl]ether				<33.0					
Bis[2-chloroisopropyl]ether				<33.0					
Bis[2-ethylhexyl]phthalate				<33.00					
Bromochloromethane	<5		<5	<5	<5	<5		<5	<5
Bromodichloromethane	<1		<1	<2	<1	<1		<1	<1
Bromoform	<5		<5	<5	<5	<5		<5	<5
Bromomethane	<20.000		<50.000	<5.000	<4.000	<4.000		<4.000	<4.000
Butyl benzyl phthalate				<33.0					
Cadmium	<.500		15.600	<.500	1.280	1.210		.866	<.216
Carbon Disulfide	<1.000		<1.000	1.520	<1.000	<.395		<1.000	<1.000
Carbon Tetrachloride	<2		<2	<2	<2	<2		<2	<2
Chlordane				<4					
Chlorobenzene	<1		<1	<1	<1	<1		<1	<1
Chlorobenzilate				<33.0					
Chlorodibromomethane	<5		<5	<5	<5	<5		<5	<5
Chloroethane	<4		<4	<4	<4	<4		<4	<4
Chloroform	<1		<1	<2	<1	<1		<1	<1
Chloromethane	<3.00		<3.00	<3.00	<3.00	<3.00		<3.00	<3.00
Chloroprene				<1					
Chromium	<20.000		68.500	<20.000	<20.000	<3.490		<20.000	<5.000
Chrysene				<33.0					
cis-1,2-Dichloroethene	<1.000		<1.000	<1.000	<1.000	<1.000		<.200	<.291
cis-1,3-Dichloropropene	<5		<5	<5	<5	<5		<5	<5
Cobalt	<1.550		224.000	13.300	12.100	42.900		16.000	1.620
Copper	<20.00		127.00	<20.00	20.30	<20.00		<7.79	13.60
Cyanide				<.01					
delta-BHC				<.064					
Diallate [cis or trans]				<33.0					
Dibenz [a,h] anthracene				<33.0					
Dibenzofuran				<33.0					
Dichlorodifluoromethane				<3					
Dieldrin				<.064					
Diethyl phthalate				<33.0					
Dimethoate				<33.0					
Dimethyl phthalate				<33.0					
Dimethylaminoazobenzene				<33.0					
Di-n-butyl phthalate				<33.000					
Di-n-octyl phthalate				<33.0					
Dinoseb				<33.0					
Diphenylamine				<33.0					
Disulfoton				<33.0					
Endosulfan I				<.064					
Endosulfan II				<.064					
Endosulfan sulfate				<.06400					
Endrin				<.064					
Endrin aldehyde				<.064					
Ethyl Methacrylate				<2					
Ethyl Methanesulfonate				<33.0					
Ethylbenzene	<1		<1	<1	<1	<1		<1	<1
Famphur				<65.9					
Fluoranthene				<33.0					
Fluorene				<33.0					
gamma-BHC [Lindane]				<.064					
gamma-Chlordane				<.064					
Heptachlor				<.064					
Heptachlor Epoxide				<.064					
Hexachlorobenzene				<33.0					
Hexachlorobutadiene				<33.0					
Hexachlorocyclopentadiene				<33.0					
Hexachloroethane				<33.0					
Hexachloropropene				<33.0					
Indeno [1,2,3-cd] pyrene				<33.0					
Iodomethane	<20		<10	<10	<10	<10		<10	<10
Isobutanol				<10000					

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

Table 9

Analytical Data Summary for MW-21

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/27/2018	3/18/2019	12/2/2019
Antimony	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<1.00	<1.00
Arsenic	<2.000	<2.000	<2.000	<2.000	<.827	2.170	<2.000	2.090	3.480
Barium	978	969	1000	969	958	957	421	236	969
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Benzo [a] anthracene				<10.0					
Benzo [a] pyrene				<10.0					
Benzo [b] fluoranthene				<10.0					
Benzo [g,h,i] perylene				<10.0					
Benzo [k] fluoranthene				<10.0					
Benzyl alcohol				<10.0					
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC				<.032					
Bis[2-chloroethoxy]methane				<10.0					
Bis[2-chloroethyl]ether				<10.0					
Bis[2-chloroisopropyl]ether				<10.0					
Bis[2-ethylhexyl]phthalate				<1.81					
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4.000	<4.000	<4.000	<4.000	<.576	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate				<10.0					
Cadmium	1.910	<.500	<.063	<.196	<.378	<.264	<.132	<.500	<.100
Carbon Disulfide	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane				<2					
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate				<10.0					
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	<1	<1	<1	<1	<1	<3	<3	<3	<3
Chloromethane	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloroprene				<1					
Chromium	<5.000	<5.000	<.575	<5.000	<5.000	<2.930	<5.000	<5.000	<5.000
Chrysene				<10.0					
cis-1,2-Dichloroethene	<1.000	<1.000	<.151	<1.000	<.250	<1.000	<1.000	<1.000	<1.000
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	2.430	<.074	6.540	<.356	3.580	2.480	1.330	3.390	3.300
Copper	5.04	2.85	<5.00	<2.62	<2.27	2.61	5.77	<5.00	<5.00
Cyanide				<.01					
delta-BHC				<.032					
Diallate [cis or trans]				<10.0					
Dibenz [a,h] anthracene				<10.0					
Dibenzofuran				<10.0					
Dichlorodifluoromethane				<3					
Dieldrin				<.032					
Diethyl phthalate				<10.0					
Dimethoate				<10.0					
Dimethyl phthalate				<10.0					
Dimethylaminoazobenzene				<10.0					
Di-n-butyl phthalate				<.601					
Di-n-octyl phthalate				<20.0					
Dinoseb				<10.0					
Diphenylamine				<10.0					
Disulfoton				<10.0					
Endosulfan I				<.032					
Endosulfan II				<.032					
Endosulfan sulfate				<.00465					
Endrin				<.032					
Endrin aldehyde				<.032					
Ethyl Methacrylate				<2					
Ethyl Methanesulfonate				<10.0					
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur				<20.0					
Fluoranthene				<10.0					
Fluorene				<10.0					
gamma-BHC [Lindane]				<.032					
gamma-Chlordane									
Heptachlor				<.032					
Heptachlor Epoxide				<.032					
Hexachlorobenzene				<10.0					
Hexachlorobutadiene				<10.0					
Hexachlorocyclopentadiene				<20.0					
Hexachloroethane				<10.0					
Hexachloropropene				<10.0					
Indeno [1,2,3-cd] pyrene				<10.0					
Iodomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10
Isobutanol				<10000					

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

Table 9

Analytical Data Summary for MW-21

Constituents	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024
Antimony	<1.00	<1.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Arsenic	<1.050 *	2.630	2.900	2.800	3.740	2.285 *	<1.940	<1.530	2.360
Barium	1180 *	894	909	733	1050	1095 *	1210	1240	1110
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Benzo [a] anthracene					<10.9				
Benzo [a] pyrene					<10.9				
Benzo [b] fluoranthene					<10.9				
Benzo [g,h,i] perylene					<10.9				
Benzo [k] fluoranthene					<10.9				
Benzyl alcohol					<10.9				
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC					<.064				
Bis[2-chloroethoxy]methane					<10.9				
Bis[2-chloroethyl]ether					<10.9				
Bis[2-chloroisopropyl]ether					<10.9				
Bis[2-ethylhexyl]phthalate					<10.90				
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate					<10.9				
Cadmium	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.200	<.200
Carbon Disulfide	<.743 *	<1.000	<1.000	<1.000	<1.000	2.565 *	<1.000	<1.000	<1.000
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane					<2				
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate					<10.9				
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	<3.00	<3.00	<3.00	<3.00	<3.00	<2.31 *	<3.00	<3.00	<3.00
Chloroprene					<1				
Chromium	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Chrysene					<10.9				
cis-1,2-Dichloroethene	<.679 *	<1.000	<.301	<1.000	<.217	<.667 *	<.233	<1.000	<.222
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	1.700 *	1.860	1.640	2.680	4.620	3.940 *	5.730	4.680	7.150
Copper	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cyanide					<.01				
delta-BHC					<.064				
Diallate [cis or trans]					<10.9				
Dibenz [a,h] anthracene					<10.9				
Dibenzofuran					<10.9				
Dichlorodifluoromethane					<3				
Dieldrin					<.064				
Diethyl phthalate					<10.9				
Dimethoate					<10.9				
Dimethyl phthalate					<10.9				
Dimethylaminoazobenzene					<10.9				
Di-n-butyl phthalate					<10.900				
Di-n-octyl phthalate					<21.7				
Dinoseb					<10.9				
Diphenylamine					<10.9				
Disulfoton					<10.9				
Endosulfan I					<.064				
Endosulfan II					<.064				
Endosulfan sulfate					<.06400				
Endrin					<.064				
Endrin aldehyde					<.064				
Ethyl Methacrylate					<2				
Ethyl Methanesulfonate					<10.9				
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur					<10.9				
Fluoranthene					<10.9				
Fluorene					<10.9				
gamma-BHC [Lindane]					<.064				
gamma-Chlordane									
Heptachlor					<.064				
Heptachlor Epoxide					<.064				
Hexachlorobenzene					<10.9				
Hexachlorobutadiene					<10.9				
Hexachlorocyclopentadiene					<10.9				
Hexachloroethane					<10.9				
Hexachloropropene					<10.9				
Indeno [1,2,3-cd] pyrene					<10.9				
Iodomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10
Isobutanol					<10000				

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

Table 9

Analytical Data Summary for MW-21

Constituents	10/15/2024	4/16/2025	10/27/2025
Antimony	<2.00	<1.00	<1.00
Arsenic	6.700	<2.000	13.300
Barium	1170	1050	634
Benzene	<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	<4.000	<.500	<.500
beta-BHC			
Bis[2-chloroethoxy]methane			
Bis[2-chloroethyl]ether			
Bis[2-chloroisopropyl]ether			
Bis[2-ethylhexyl]phthalate			
Bromochloromethane	<1	<1	<1
Bromodichloromethane	<1	<1	<1
Bromoform	<1	<1	<1
Bromomethane	<1.000	<1.000	<1.000
Butyl benzyl phthalate			
Cadmium	<.800	<.200	<.200
Carbon Disulfide	<1.000	<1.000	4.200
Carbon Tetrachloride	<1	<1	<1
Chlordane			
Chlorobenzene	<1	<1	<1
Chlorobenzilate			
Chlorodibromomethane	<1	<1	<1
Chloroethane	<1	<1	<1
Chloroform	<1	<1	<1
Chloromethane	<1.00	<1.00	<1.00
Chloroprene			
Chromium	<8.000	1.400	1.600
Chrysene			
cis-1,2-Dichloroethene	<1.000	<1.000	<1.000
cis-1,3-Dichloropropene	<1	<1	<1
Cobalt	13.400	19.000	6.100
Copper	7.40	<5.00	<5.00
Cyanide			
delta-BHC			
Diallate [cis or trans]			
Dibenz [a,h] anthracene			
Dibenzofuran			
Dichlorodifluoromethane			
Dieldrin			
Diethyl phthalate			
Dimethoate			
Dimethyl phthalate			
Dimethylaminoazobenzene			
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
Famphur			
Fluoranthene			
Fluorene			
gamma-BHC [Lindane]			
gamma-Chlordane			
Heptachlor			
Heptachlor Epoxide			
Hexachlorobenzene			
Hexachlorobutadiene			
Hexachlorocyclopentadiene			
Hexachloroethane			
Hexachloropropene			
Indeno [1,2,3-cd] pyrene			
Iodomethane	<1	<1	<1
Isobutanol			

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

Table 9

Analytical Data Summary for MW-21

Constituents	Units	12/23/2008	3/3/2009	8/21/2009	12/15/2009	3/11/2010	8/31/2010	2/16/2011	7/7/2011
Isodrin	ug/L								<10.0
Isophorone	ug/L								<10.0
Isosafrole	ug/L								<10.0
Kepone	ug/L								<10.0
Lead	ug/L	<4.000	9.300	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
MP-Xylene	ug/L								
Mercury	ug/L								<.200
Methacrylonitrile	ug/L								<1
Methapyrilene	ug/L								<10.0
Methoxychlor	ug/L								<.032
Methyl Methacrylate	ug/L								<2
Methyl Methanesulfonate	ug/L								<10.0
Methylene Bromide	ug/L	<1	<1	<1	<1	<50	<1	<1	<1
Methylene Chloride	ug/L	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene	ug/L								<5
Nickel	ug/L	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00
Nitrobenzene	ug/L								<10.0
N-Nitrosodiethylamine	ug/L								<10.0
N-Nitrosodimethylamine	ug/L								<10.0
N-Nitrosodi-n-butylamine	ug/L								<10.0
N-Nitrosodi-n-propylamine	ug/L								<10.0
N-Nitrosodiphenylamine	ug/L								<10.0
N-Nitrosomethylethylamine	ug/L								<10.0
N-Nitrosopiperidine	ug/L								<10.0
N-Nitrosopyrrolidine	ug/L								<10.0
O,O,O-Triethyl Phosphorothioate	ug/L								<10.0
o-Toluidine	ug/L								<10.0
o-Xylene	ug/L								
Parathion-Ethyl	ug/L								<10.0
Parathion-Methyl	ug/L								<10.0
PCB-1016	ug/L								<.800
PCB-1221	ug/L								<.800
PCB-1232	ug/L								<.800
PCB-1242	ug/L								<.800
PCB-1248	ug/L								<.800
PCB-1254	ug/L								<.800
PCB-1260	ug/L								<.800
Pentachlorobenzene	ug/L								<10.0
Pentachloronitrobenzene	ug/L								<10.0
Pentachlorophenol [2C]	ug/L								<10.0
Phenacetin	ug/L								<10.0
Phenanthrene	ug/L								<10.0
Phenol	ug/L								<10.0
Phorate	ug/L								<10.0
Pronamide	ug/L								<10.0
Propionitrile	ug/L								<10
Pyrene	ug/L								<10.0
Safrole	ug/L								<10.0
Selenium	ug/L	<5.00	<5.00	18.90	13.20	<5.00	<5.00	<5.00	<5.00
Silver	ug/L	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Styrene	ug/L	<1	<1	<1	<5	<5	<4	<1	<1
Sulfate	mg/L								
Sulfide	mg/L								.290
Tetrachloroethene	ug/L	<1	<1	<1	<1	<5	<1	<1	<1
Thallium	ug/L	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Thionazin	ug/L								<10.0
Tin	ug/L								<100
Toluene	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	mg/L								
Toxaphene	ug/L								<2
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<5	<5	<5	<20	<5	<10	<5	<10
trans-1,4-Dichloro-2-Butene	ug/L	<10	<10	<10	<10	<50	<10	<10	<10
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	ug/L	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000
Vinyl Acetate	ug/L	<2	<2	<2	<2	<2	<2	<4	<2
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<3.00	<3.00	<3.00	<9.00	<7.50	<3.00	<3.00	<3.00
Zinc	ug/L	43.3	108.0	63.2	66.3	80.0	52.8	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW-21

Constituents	10/27/2011	1/23/2012	4/26/2012	10/9/2012	2/20/2013	10/3/2013	12/18/2013	4/22/2014	5/12/2015
Isodrin				<33.0					
Isophorone				<33.0					
Isosafrole				<33.0					
Kepone				<33.0					
Lead	<4.000		778.000	<4.000	7.590	7.050		4.640	.545
MP-Xylene				<2	<2				
Mercury				<.267					
Methacrylonitrile				<2					
Methapyrilene				<33.0					
Methoxychlor				<.064					
Methyl Methacrylate				<2					
Methyl Methanesulfonate				<33.0					
Methylene Bromide	<1		<1	<1	<1	<1		<1	<1
Methylene Chloride	<5.000		<5.000	<5.000	<5.000	<5.000		<5.000	<5.000
Naphthalene				<5					
Nickel	<50.00		204.00	<50.00	<50.00	72.90		<33.50	17.20
Nitrobenzene				<33.0					
N-Nitrosodiethylamine				<33.0					
N-Nitrosodimethylamine				<33.0					
N-Nitrosodi-n-butylamine				<33.0					
N-Nitrosodi-n-propylamine				<33.0					
N-Nitrosodiphenylamine				<33.0					
N-Nitrosomethylethylamine				<33.0					
N-Nitrosopiperidine				<33.0					
N-Nitrosopyrrolidine				<33.0					
O,O,O-Triethyl Phosphorothioate				<33.0					
o-Toluidine				<33.0					
o-Xylene				<1	<1				
Parathion-Ethyl				<33.0					
Parathion-Methyl				<33.0					
PCB-1016				<.909					
PCB-1221				<.909					
PCB-1232				<.909					
PCB-1242				<.909					
PCB-1248				<.909					
PCB-1254				<.909					
PCB-1260				<.909					
Pentachlorobenzene				<33.0					
Pentachloronitrobenzene				<33.0					
Pentachlorophenol [2C]				<33.0					
Phenacetin				<33.0					
Phenanthrene				<33.0					
Phenol				62.5	<10.0	34.7	<10.1	<10.2	<10.2
Phorate				<33.0					
Pronamide				<33.0					
Propionitrile				<10					
Pyrene				<33.0					
Safrole				<33.0					
Selenium	<5.00		<5.00	<5.00	<5.00	<5.00		<5.00	<5.00
Silver	<20.000		<20.000	<20.000	<20.000	<20.000		<20.000	<1.000
Styrene	<1		<1	<1	<1	<1		<1	<1
Sulfate									
Sulfide	3.900	<1.000	<1.000	4.500	<1.000	<1.000		<1.000	<1.000
Tetrachloroethene	<1		<1	<1	<1	<1		<1	<1
Thallium	<2.000		2.300	<2.000	<2.000	<2.000		<2.000	<.033
Thionazin				<33.0					
Tin				<100					
Toluene	<1.000		<1.000	<1.000	<1.000	24.300		<1.000	<1.000
Total Suspended Solids								790.00	12.30
Toxaphene				<4					
trans-1,2-Dichloroethene	<1		<1	<1	<1	<1		<1	<1
trans-1,3-Dichloropropene	<5		<5	<5	<5	<5		<5	<5
trans-1,4-Dichloro-2-Butene	<10		<10	<10	<10	<10		<10	<10
Trichloroethene	<1		<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	<4		<4	<4	<4	<4		<4	<4
Vanadium	<50.000		409.000	<50.000	<50.000	<26.300		<9.780	<.605
Vinyl Acetate	<2		<5	<2	<2	<2		<2	<10
Vinyl Chloride	<1		<1	<1	<1	<1		<1	<1
Xylenes, total	<3.00		<3.00	<3.00	<3.00	<3.00		<3.00	<3.00
Zinc	<20.0		461.0	57.0	84.5	209.0		<40.0	<10.0

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

Table 9

Analytical Data Summary for MW-21

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/27/2018	3/18/2019	12/2/2019
Isodrin				<10.0					
Isophorone				<10.0					
Isosafrole				<10.0					
Kepone				<10.0					
Lead	<.199	<.500	<.500	<.500	<.500	<.186	<.500	1.560	<.423
MP-Xylene									
Mercury				<.200					
Methacrylonitrile				<10					
Methapyrilene				<10.0					
Methoxychlor				<.032					
Methyl Methacrylate				<2					
Methyl Methanesulfonate				<10.0					
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5.000	<.643	<.275	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene				<5					
Nickel	18.50	7.77	14.30	9.98	10.80	12.20	6.55	6.09	<3.48
Nitrobenzene				<10.0					
N-Nitrosodiethylamine				<10.0					
N-Nitrosodimethylamine				<10.0					
N-Nitrosodi-n-butylamine				<10.0					
N-Nitrosodi-n-propylamine				<10.0					
N-Nitrosodiphenylamine				<10.0					
N-Nitrosomethylethylamine				<10.0					
N-Nitrosopiperidine				<10.0					
N-Nitrosopyrrolidine				<10.0					
O,O,O-Triethyl Phosphorothioate				<10.0					
o-Toluidine				<10.0					
o-Xylene									
Parathion-Ethyl				<10.0					
Parathion-Methyl				<10.0					
PCB-1016				<.808					
PCB-1221				<.808					
PCB-1232				<.808					
PCB-1242				<.808					
PCB-1248				<.808					
PCB-1254				<.808					
PCB-1260				<.808					
Pentachlorobenzene				<10.0					
Pentachloronitrobenzene				<10.0					
Pentachlorophenol [2C]				<10.0					
Phenacetin				<10.0					
Phenanthrene				<10.0					
Phenol	<10.1	<10.4	<11.0	<10.0	<100.0				
Phorate				<10.0					
Pronamide				<10.0					
Propionitrile				<10					
Pyrene				<10.0					
Safrole				<10.0					
Selenium	<5.00	<5.00	<5.00	<5.00	<5.00	<2.50	<5.00	<5.00	<5.00
Silver	<1.000	<1.000	<1.000	<1.000	<.204	<.500	<1.000	<1.000	<1.000
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfate									
Sulfide	<1.000	<1.000	<1.000	<1.000	4.930	<1.000	<1.000	2.020	<.707
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<.034	<.035	<.028	<1.000	<1.000	<2.000	<1.000	<1.000	<1.000
Thionazin				<10.0					
Tin				<5					
Toluene	<1.000	<.202	<1.000	<1.000	<1.000	<1.000	<1.000	23.300	173.000
Total Suspended Solids	14.90	<1.00	3.13	6.50	<1.25	<1.88	3.13	62.00	36.70
Toxaphene				<2					
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<.910	<.533	<.428	<.999	<5.000	<3.720	<1.330	<3.530	<.980
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Zinc	<10.0	<10.0	<10.0	<20.0	35.2	<20.0	<16.7	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW-21

Constituents	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024
Isodrin					<10.9				
Isophorone					<10.9				
Isosafrole					<10.9				
Kepone					<10.9				
Lead	<.500	<.152	<.500	<.500	<.500	<.500	<.500	<.500	<.500
MP-Xylene									
Mercury					<.200				
Methacrylonitrile					<10				
Methapyrilene					<10.9				
Methoxychlor					<.064				
Methyl Methacrylate					<2				
Methyl Methanesulfonate					<10.9				
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<7.500 *	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene					<5				
Nickel	<5.00	<3.14	<2.68	<4.32	<3.56	<3.55 *	8.53	<4.44	11.70
Nitrobenzene					<10.9				
N-Nitrosodiethylamine					<10.9				
N-Nitrosodimethylamine					<10.9				
N-Nitrosodi-n-butylamine					<10.9				
N-Nitrosodi-n-propylamine					<10.9				
N-Nitrosodiphenylamine					<10.9				
N-Nitrosomethylethylamine					<10.9				
N-Nitrosopiperidine					<10.9				
N-Nitrosopyrrolidine					<10.9				
O,O,O-Triethyl Phosphorothioate					<10.9				
o-Toluidine					<10.9				
o-Xylene									
Parathion-Ethyl					<10.9				
Parathion-Methyl					<10.9				
PCB-1016					<.800				
PCB-1221					<.800				
PCB-1232					<.800				
PCB-1242					<.800				
PCB-1248					<.800				
PCB-1254					<.800				
PCB-1260					<.800				
Pentachlorobenzene					<10.9				
Pentachloronitrobenzene					<10.9				
Pentachlorophenol [2C]					<10.9				
Phenacetin					<10.9				
Phenanthrene					<10.9				
Phenol					<10.9				
Phorate					<10.9				
Pronamide					<10.9				
Propionitrile					<10				
Pyrene					<10.9				
Safrole					<10.9				
Selenium	<5.00	<5.00	<1.05	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfate									
Sulfide	1.080	<10.000	<10.000	<.588	<1.000	<1.000	<1.000	<1.000	<1.000
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Thionazin					<10.9				
Tin					<5				
Toluene	301.500 *	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	10.34 *	<24.00	16.00	13.60	13.50	12.30 *	4.38	4.50	5.00
Toxaphene					<2				
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.00	<3.00	<.44	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Zinc	<20.0	<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-21

Constituents	10/15/2024	4/16/2025	10/27/2025
Isodrin			
Isophorone			
Isosafrole			
Kepone			
Lead	<4.000	<1.000	<1.000
MP-Xylene			
Mercury			
Methacrylonitrile			
Methapyrilene			
Methoxychlor			
Methyl Methacrylate			
Methyl Methanesulfonate			
Methylene Bromide	<1	<1	<1
Methylene Chloride	<5.000	<5.000	<5.000
Naphthalene			
Nickel	27.20	18.00	8.30
Nitrobenzene			
N-Nitrosodiethylamine			
N-Nitrosodimethylamine			
N-Nitrosodi-n-butylamine			
N-Nitrosodi-n-propylamine			
N-Nitrosodiphenylamine			
N-Nitrosomethylethylamine			
N-Nitrosopiperidine			
N-Nitrosopyrrolidine			
O,O,O-Triethyl Phosphorothioate			
o-Toluidine			
o-Xylene			
Parathion-Ethyl			
Parathion-Methyl			
PCB-1016			
PCB-1221			
PCB-1232			
PCB-1242			
PCB-1248			
PCB-1254			
PCB-1260			
Pentachlorobenzene			
Pentachloronitrobenzene			
Pentachlorophenol [2C]			
Phenacetin			
Phenanthrene			
Phenol			
Phorate			
Pronamide			
Propionitrile			
Pyrene			
Safrole			
Selenium	<4.00	<2.00	<2.00
Silver	<4.000	<5.000	<5.000
Styrene	<1	<1	<1
Sulfate	18.1	15.8	
Sulfide			.100
Tetrachloroethene	<1	<1	<1
Thallium	<2.000	<.500	<.500
Thionazin			
Tin			
Toluene	<1.000	<1.000	<1.000
Total Suspended Solids			
Toxaphene			
trans-1,2-Dichloroethene	<1	<1	<1
trans-1,3-Dichloropropene	<1	<1	<1
trans-1,4-Dichloro-2-Butene	<5	<5	<5
Trichloroethene	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1
Vanadium	<20.000	<2.000	<2.000
Vinyl Acetate	<5	<5	<5
Vinyl Chloride	<1	<1	<1
Xylenes, total	<2.00	<2.00	<2.00
Zinc	28.1	<5.0	<5.0

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

Table 9

Analytical Data Summary for MW-22

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	8/21/2009	3/11/2010	8/31/2010	2/16/2011
1,1,1,2-Tetrachloroethane	ug/L	<.33	<.33	<.33	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00
1,1,1-Trichloroethane	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	ug/L	<.23	<.23	<.23	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	ug/L	<.37	<.37	<.37	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	ug/L	<.37	<.37	<.37	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,2,3-Trichloropropane	ug/L	<.7	<.7	<.7	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	ug/L	<.860	<.860	<.860	<.860	<.860	<.498	<.498	<.498	<.120
1,2-Dibromoethane	ug/L	<.250	<.250	<.250	<.250	<.250	<.255	<.255	<.255	<.130
1,2-Dichlorobenzene	ug/L	<.21	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L	<.4	<.4	<.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<.16	<.16	<.16	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
2-Butanone	ug/L	<.91	<.91	<.91	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Hexanone	ug/L	<1.76	<1.76	<1.76	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Methyl-2-Pentanone	ug/L	<.31	<.31	<.31	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetone	ug/L	<4.62	<4.62	<4.62	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	ug/L	<1.28	<1.28	<1.28	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Antimony	ug/L	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00
Arsenic	ug/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Barium	ug/L	248	229	231	234	242	233 *	221	244	252
Benzene	ug/L	<.16	<.16	<.16	<.50	<.50	<.50	<.50	<.50	<.50
Beryllium	ug/L	<1.000	<.028	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Bromochloromethane	ug/L	<.76	<.76	<.76	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
Bromoform	ug/L	<.43	<.43	<.43	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	ug/L	<.48	<.48	<.48	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Cadmium	ug/L	<.500	.170	<.500	1.580	<.500	<.500	<.500	<.500	<.500
Carbon Disulfide	ug/L	<.18	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<4.00	<1.00
Carbon Tetrachloride	ug/L	<.31	<.31	<.31	<2.00	<2.00	<2.00	<10.00	<5.00	<2.00
Chlorobenzene	ug/L	<.17	<.17	<.17	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00
Chlorodibromomethane	ug/L	<.26	<.26	<.26	<5.00	<5.00	<5.00	<5.00	<10.00	<5.00
Chloroethane	ug/L	<.5	<.5	<.5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	ug/L	<.17	<.17	<.17	<1.00	<2.50	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.2	<.2	<.2	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chromium	ug/L	<20.00	<1.73	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
cis-1,2-Dichloroethene	ug/L	<.37	<.37	<.37	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	ug/L	<.23	<.23	<.23	<5.00	<5.00	<5.00	<5.00	<10.00	<5.00
Cobalt	ug/L	<20.000	<1.400	<20.000	<20.000	<20.000	<20.000	<1.550	<1.550	<1.550
Copper	ug/L	<20.0	<13.1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Ethylbenzene	ug/L	<.25	<.25	<.25	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	ug/L	<.4	<.4	<.4	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Lead	ug/L	<4.000	<.370	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
MP-Xylene	ug/L									
Methylene Bromide	ug/L	<.3	<.3	<.3	<1.0	<1.0	<1.0	<50.0	<1.0	<1.0
Methylene Chloride	ug/L	<.45	<.45	.80	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel	ug/L	<50.0	<4.6	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
o-Xylene	ug/L									
Selenium	ug/L	<5.00	<1.44	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	ug/L	<20.000	<2.610	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Styrene	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<5.00	<4.00	<1.00
Sulfide	mg/L									
Tetrachloroethene	ug/L	.58	<.38	<.38	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00
Thallium	ug/L	<2.000	<.700	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Toluene	ug/L	<.14	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	mg/L									
trans-1,2-Dichloroethene	ug/L	<.31	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	ug/L	<.17	<.17	<.17	<5.00	<5.00	<5.00	<5.00	<10.00	<5.00
trans-1,4-Dichloro-2-Butene	ug/L	<1.8	<1.8	<1.8	<10.0	<10.0	<10.0	<50.0	<10.0	<10.0
Trichloroethene	ug/L	<.24	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.26	<.26	<.26	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	ug/L	<50.00	<1.60	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00
Vinyl Acetate	ug/L	<1.36	<1.36	<1.36	<2.50	<2.00	<2.00	<2.00	<2.00	<4.00
Vinyl Chloride	ug/L	<.26	<.26	<.26	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	ug/L	<.30	<.30	<.30	<3.00	<3.00	<3.00	<7.50	<3.00	<3.00
Zinc	ug/L	<20.00	<5.27	25.10	<20.00	21.30	<20.00	<20.00	<20.00	<20.00

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

Table 9

Analytical Data Summary for MW-22

Constituents	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013	4/22/2014	7/10/2014	10/14/2014
1,1,1,2-Tetrachloroethane	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
1,1,1-Trichloroethane	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
1,1,2,2-Tetrachloroethane	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
1,1,2-Trichloroethane	<1.00		<2.00	<1.00		<1.00	<1.00		<1.00
1,1-Dichloroethane	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
1,1-Dichloroethene	<2.00		<2.00	<2.00		<2.00	<2.00		<2.00
1,2,3-Trichloropropane	<1.0		<1.0	<1.0		<1.0	<1.0		<1.0
1,2-Dibromo-3-Chloropropane	<.120		<.120	<.120		<.120	<.120		<.120
1,2-Dibromoethane	<.130		<.130	<.130		<.130	<.130		<.130
1,2-Dichlorobenzene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
1,2-Dichloroethane	<1.0		<1.0	<1.0		<1.0	<1.0		<1.0
1,2-Dichloropropane	<1.0		<1.0	<1.0		<1.0	<1.0		<1.0
1,4-Dichlorobenzene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
2-Butanone	<10.00		<10.00	<10.00		<10.00	<10.00		<10.00
2-Hexanone	<10.00		<10.00	<10.00		<10.00	<10.00		<10.00
4-Methyl-2-Pentanone	<10.00		<10.00	<10.00		<10.00	<10.00		<10.00
Acetone	<10.00		<10.00	<10.00		<10.00	<10.00		<10.00
Acrylonitrile	<10.00		<10.00	<10.00		<10.00	<10.00		<10.00
Antimony	<6.00	<6.00	<6.00	<6.00		<6.00	<6.00		<6.00
Arsenic	<1.00	<4.00	<1.00	<1.00		<1.00	<1.00		<1.00
Barium	221	275	239 *	247 *		220	244		254
Benzene	<.50		<.50	<.50		<.50	<.50		<.50
Beryllium	<1.000	<4.000	<1.000	<1.000		<1.000	<1.000		<1.000
Bromochloromethane	<5.00		<5.00	<5.00		<5.00	<5.00		<5.00
Bromodichloromethane	<1.0		<2.0	<1.0		<1.0	<1.0		<1.0
Bromoform	<5.00		<5.00	<5.00		<5.00	<5.00		<5.00
Bromomethane	<20.00		<5.00	<4.00		<4.00	<4.00		<4.00
Cadmium	<.500	<.800	.588 *	.875 *		<.500	.507		<1.000
Carbon Disulfide	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Carbon Tetrachloride	<2.00		<2.00	<2.00		<2.00	<2.00		<2.00
Chlorobenzene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Chlorodibromomethane	<5.00		<5.00	<5.00		<5.00	<5.00		<5.00
Chloroethane	<4.0		<4.0	<4.0		<4.0	<4.0		<4.0
Chloroform	<1.00		<2.00	<1.00		<1.00	<1.00		<1.00
Chloromethane	<3.0		<3.0	<3.0		<3.0	<3.0		<3.0
Chromium	<20.00	<20.00	<20.00	<20.00		<20.00	<20.00		<20.00
cis-1,2-Dichloroethene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
cis-1,3-Dichloropropene	<5.00		<5.00	<5.00		<5.00	<5.00		<5.00
Cobalt	1.730	<1.000	<1.550	<1.320		<1.320	<2.410		<2.410
Copper	<20.0	<20.0	<20.0	<20.0		<20.0	<20.0		<20.0
Ethylbenzene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Iodomethane	<20.0		<10.0	<10.0		<10.0	<10.0		<10.0
Lead	<4.000	<4.000	<4.000	<4.000		<4.000	<4.000		<4.000
MP-Xylene			<2	<2					
Methylene Bromide	<1.0		<1.0	<1.0		<1.0	<1.0		<1.0
Methylene Chloride	<5.00		<5.00	<5.00		<5.00	<5.00		<5.00
Nickel	<50.0	<50.0	<50.0	<50.0		<50.0	<50.0		<50.0
o-Xylene			<1	<1					
Selenium	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00		<5.00
Silver	<20.000	<20.000	<20.000	<20.000		<20.000	<20.000		<20.000
Styrene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Sulfide	<1				<1		<1	<1	<1
Tetrachloroethene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Thallium	<2.000	<2.000	<2.000	<2.000		<2.000	<2.000		<2.000
Toluene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Total Suspended Solids							10.30	6.00	7.00
trans-1,2-Dichloroethene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
trans-1,3-Dichloropropene	<5.00		<5.00	<5.00		<5.00	<5.00		<5.00
trans-1,4-Dichloro-2-Butene	<10.0		<10.0	<10.0		<10.0	<10.0		<10.0
Trichloroethene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Trichlorofluoromethane	<4.00		<4.00	<4.00		<4.00	<4.00		<4.00
Vanadium	<50.00	<50.00	<50.00	<50.00		<50.00	<50.00		<50.00
Vinyl Acetate	<2.00		<2.00	<2.00		<2.00	<2.00		<10.00
Vinyl Chloride	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Xylenes, total	<3.00		<3.00	<3.00		<3.00	<3.00		<3.00
Zinc	<20.00	25.00	<20.00	24.25 *		34.10	<20.00		<20.00

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

Table 9

Analytical Data Summary for MW-22

Constituents	5/12/2015	7/29/2015	3/28/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/26/2018	3/18/2019
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<1.200
1,2-Dibromoethane	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.340
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<10.00	<10.00	<10.00	<5.00	<10.00	<10.00	<10.00	<10.00	<10.00
Antimony	<1.00	<1.00	236.00	2.13	<1.00	1.54	6.51	<1.00	<1.00
Arsenic	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00	1.35	<1.00	<2.00
Barium	244	241	250	248	273	220	262	270	266
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromofom	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	<4.00	<4.00	<4.00	<4.00	<4.00	<1.00	<4.00	<4.00	<4.00
Cadmium	<.500	<1.000	<1.000	<.500	<.500	<.500	<.500	<.500	<.500
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00	<3.00	<3.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chromium	<5.00	<5.00	<1.00	<5.00	<5.00	<5.00	<4.00	<5.00	<5.00
cis-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	<1.000	<1.000	<1.000	<.500	<.500	<.500	<1.000	<.500	<.500
Copper	<2.0	16.4	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Lead	<1.000	<.500	.765	<.500	<.500	<.500	<1.000	<.500	<.500
MP-Xylene									
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
o-Xylene									
Selenium	<5.00	<5.00	<2.00	<1.00	<2.00	<2.00	<2.50	<2.00	<2.00
Silver	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.500	<1.000	<1.000
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfide	<1			<1					
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<2.000	<1.000	<1.000
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	4.62	6.50	8.37	5.13	<1.88	2.00	2.00	<1.88	<1.00
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<4.00	<2.00	<2.00
Vinyl Acetate	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Zinc	<10.00	97.40	13.20	12.50	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 9

Analytical Data Summary for MW-22

Constituents	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<1.200	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.340	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Antimony	<1.00	<1.00	<1.00	<2.00	<2.00	<1.00	5.65	<2.00	<2.00
Arsenic	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00	<1.00 *
Barium	264	249	208	304	274	241	250	251	238 *
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Cadmium	<.100	<.100	.307	<.100	<.100	<.100	<.100	.186	<.200
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chromium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
cis-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	<.500	<.500	1.380	<.500	<.500	<.500	<.500	<.197	<.500
Copper	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Lead	<.500	<.500	<1.000	<.500	<.500	<.500	.528	<.369	<.500
MP-Xylene									
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	10.8 *
o-Xylene									
Selenium	<2.00	<2.00	<3.00	<1.02	<1.52	<1.69	<5.00	<2.05	<3.25 *
Silver	<1.000	<1.000	<1.000	<1.000	<1.000	<.651	<1.000	<1.000	<1.000
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfide					<1				
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.746	<1.000
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	<1.88	<1.88	6.50	<1.88	<1.88	<1.88	4.75	<1.88	<1.51 *
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<2.00	<5.00	<3.00	<1.57	<1.10	<1.11	<2.01	<1.33	<1.36 *
Vinyl Acetate	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.00	<3.00	<3.00	<.99	<3.00	<3.00	<3.00	<3.00	<3.00
Zinc	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 9

Analytical Data Summary for MW-22

Constituents	5/29/2024	10/15/2024	4/16/2025	10/27/2025
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<1.00	<1.00	<1.00
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00
2-Butanone	<10.00	<10.00	<10.00	<10.00
2-Hexanone	<10.00	<5.00	<5.00	<5.00
4-Methyl-2-Pentanone	<10.00	<5.00	<5.00	<5.00
Acetone	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<5.00	<5.00	<5.00	<5.00
Antimony	2.79	21.60	5.60	6.60
Arsenic	<2.00	<4.00	<2.00	<2.00
Barium	241	231	283	229
Benzene	<.50	<1.00	<1.00	<1.00
Beryllium	<1.000	<4.000	<.500	<.500
Bromochloromethane	<5.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<1.00	<1.00	<1.00
Bromomethane	<4.00	<1.00	<1.00	<1.00
Cadmium	<.200	<.800	.200	<.200
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<1.00	<1.00	<1.00
Chlorobenzene	<1.00	<1.00	<1.00	<1.00
Chlorodibromomethane	<5.00	<1.00	<1.00	<1.00
Chloroethane	<4.0	<1.0	<1.0	<1.0
Chloroform	<3.00	<1.00	<1.00	<1.00
Chloromethane	<3.0	<1.0	<1.0	<1.0
Chromium	<5.00	<8.00	1.70	<1.00
cis-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	<5.00	<1.00	<1.00	<1.00
Cobalt	<.500	<.400	<.500	<.500
Copper	<5.0	<4.0	<5.0	<5.0
Ethylbenzene	<1.00	<1.00	<1.00	<1.00
Iodomethane	<10.0	<1.0	<1.0	<1.0
Lead	<.327	<4.000	<1.000	<1.000
MP-Xylene				
Methylene Bromide	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<5.00
Nickel	<5.0	<4.0	<5.0	<5.0
o-Xylene				
Selenium	<5.00	<4.00	<2.00	<2.00
Silver	<1.000	<4.000	<5.000	<5.000
Styrene	<1.00	<1.00	<1.00	<1.00
Sulfide				
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00
Thallium	<1.000	<2.000	<.500	<.500
Toluene	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	3.63			
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<1.00	<1.00	<1.00
trans-1,4-Dichloro-2-Butene	<10.0	<5.0	<5.0	<5.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<1.00	<1.00	<1.00
Vanadium	<1.45	<20.00	<2.00	<2.00
Vinyl Acetate	<10.00	<5.00	<5.00	<5.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.00	<2.00	<2.00	<2.00
Zinc	<20.00	<20.00	<5.00	5.60

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

Table 9

Analytical Data Summary for MW-23

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	3/11/2010
1,1,1,2-Tetrachloroethane	ug/L	<.33	<.33	<.33	<1.00	<1.00	<1.00	<1.00	<5.00
1,1,1-Trichloroethane	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	ug/L	<.23	<.23	<.23	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	ug/L	<.37	<.37	<.37	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	ug/L	<.37	<.37	<.37	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene	ug/L								
1,2,3-Trichloropropane	ug/L	<.7	<.7	<.7	<1.0	<1.0	<1.0	<1.0	<2.5
1,2,4,5-Tetrachlorobenzene	ug/L								
1,2,4-Trichlorobenzene	ug/L								
1,2-Dibromo-3-Chloropropane	ug/L	<.860	<.860	<.860	<.860	<.860	<.860	<.498	<.498
1,2-Dibromoethane	ug/L	<.250	<.250	<.250	<.250	<.250	<.250	<.255	<.255
1,2-Dichlorobenzene	ug/L	<.21	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L	<.4	<.4	<.4	<1.0	<1.0	<1.0	<1.0	<1.0
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	<.16	<.16	<.16	<1.00	<1.00	<1.00	<1.00	<1.00
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 [2C]	ug/L								
2,4,5-TP [Silvex] [2C]	ug/L								
2,4,5-Trichlorophenol	ug/L								
2,4,6-Trichlorophenol	ug/L								
2,4-D [2C]	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	ug/L	<.91	<.91	<.91	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene	ug/L								
2-Chlorophenol	ug/L								
2-Hexanone	ug/L	<1.76	<1.76	<1.76	<10.00	<10.00	<10.00	<10.00	<10.00
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								
3/4-Methylphenol	ug/L								
3-Chloropropene	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	ug/L	<.31	<.31	<.31	<10.00	<10.00	<10.00	<10.00	<10.00
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	<4.62	<4.62	<4.62	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L								
Acetophenone	ug/L								
Acrolein	ug/L								
Acrylonitrile	ug/L	<1.28	<1.28	<1.28	<10.00	<10.00	<10.00	<10.00	<10.00
Aldrin	ug/L								
alpha-BHC	ug/L								
alpha-Chlordane	ug/L								
Anthracene	ug/L								

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

Table 9

Analytical Data Summary for MW-23

Constituents	8/31/2010	2/16/2011	7/7/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	10/3/2013	4/22/2014
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<1.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene			<1			<1			
1,2,3-Trichloropropane	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene			<10.0			<10.0			
1,2,4-Trichlorobenzene			<5			<5			
1,2-Dibromo-3-Chloropropane	<.498	<.120	<10.000	<.120	<.200	<.120	<.120	<.120	<.120
1,2-Dibromoethane	<.255	<.130	<10.000	<.130	<.050	<.130	<.130	<.130	<.130
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene			<10.0			<10.0			
1,3-Dichlorobenzene			<1			<1			
1,3-Dichloropropane			<1			<1			
1,3-Dinitrobenzene			<10.0			<10.0			
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone			<10.0			<10.0			
1,4-Phenylenediamine			<10.0			<10.0			
1-Naphthylamine			<10.0			<10.0			
2,2-Dichloropropane			<4			<4			
2,3,4,6-Tetrachlorophenol			<10.0			<10.0			
2,4,5-T [2C]			<.24			<.43			
2,4,5-TP [Silvex] [2C]			<.24			<.29			
2,4,5-Trichlorophenol			<10.0			<10.0			
2,4,6-Trichlorophenol			<10.0			<10.0			
2,4-D [2C]			<.45			<.47			
2,4-Dichlorophenol			<10.0			<10.0			
2,4-Dimethylphenol			<10.0			<10.0			
2,4-Dinitrophenol			<20.0			<20.0			
2,4-Dinitrotoluene			<10.0			<10.0			
2,6-Dichlorophenol			<10.0			<10.0			
2,6-Dinitrotoluene			<10.0			<10.0			
2-Acetylaminofluorene			<10.0			<10.0			
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene			<10.0			<10.0			
2-Chlorophenol			<10.0			<10.0			
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene			<10.0			<10.0			
2-Methylphenol			<10.0			<10.0			
2-Naphthylamine			<10.0			<10.0			
2-Nitroaniline			<10.0			<10.0			
2-Nitrophenol			<10.0			<10.0			
3,3-Dichlorobenzidine			<10.0			<10.0			
3,3-Dimethylbenzidine			<10.0			<10.0			
3/4-Methylphenol			<10.0			<10.0			
3-Chloropropene			<2			<2			
3-Methylcholanthrene			<10.0			<10.0			
3-Nitroaniline			<10.0			<10.0			
4,4'-DDD			<.0320			<.0320			
4,4'-DDE			<.0320			<.0320			
4,4'-DDT			<.0320			<.0320			
4,6-Dinitro-2-methylphenol			<10.0			<10.0			
4-Aminobiphenyl			<10.0			<10.0			
4-Bromophenyl phenyl ether			<10.0			<10.0			
4-Chloro-3-methylphenol			<10.0			<10.0			
4-Chloroaniline			<10.0			<10.0			
4-Chlorophenyl phenyl ether			<10.0			<10.0			
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline			<10.0			<10.0			
4-Nitrophenol			<10.0			<10.0			
5-Nitro-o-toluidine			<10.0			<10.0			
7,12-Dimethylbenz [a] anthracene			<10.0			<10.0			
Acenaphthene			<10.0			<10.0			
Acenaphthylene			<10.0			<10.0			
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile			<10000			<10000			
Acetophenone			<10.0			<10.0			
Acrolein			<10			<10			
Acrylonitrile	<10.00	<10.00	<10.00	<10.00	<5.00	<10.00	<10.00	<10.00	<10.00
Aldrin			<.0320			<.0320			
alpha-BHC			<.0320			<.0320			
alpha-Chlordane						<.032			
Anthracene			<10.0			<10.0			

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

Table 9

Analytical Data Summary for MW-23

Constituents	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/26/2018
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene						<1			
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene						<10.2			
1,2,4-Trichlorobenzene						<5			
1,2-Dibromo-3-Chloropropane	<.120	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<.500
1,2-Dibromoethane	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.130
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene						<10.2			
1,3-Dichlorobenzene						<1			
1,3-Dichloropropane						<1			
1,3-Dinitrobenzene						<10.2			
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone						<10.2			
1,4-Phenylenediamine						<10.2			
1-Naphthylamine						<10.2			
2,2-Dichloropropane						<4			
2,3,4,6-Tetrachlorophenol						<10.2			
2,4,5-T [2C]						<1.22			
2,4,5-TP [Silvex] [2C]						<1.22			
2,4,5-Trichlorophenol						<10.2			
2,4,6-Trichlorophenol						<10.2			
2,4-D [2C]						<1.22			
2,4-Dichlorophenol						<10.2			
2,4-Dimethylphenol						<10.2			
2,4-Dinitrophenol						<20.4			
2,4-Dinitrotoluene						<10.2			
2,6-Dichlorophenol						<10.2			
2,6-Dinitrotoluene						<10.2			
2-Acetylaminofluorene						<10.2			
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene						<10.2			
2-Chlorophenol						<10.2			
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene						<10.2			
2-Methylphenol						<10.2			
2-Naphthylamine						<10.2			
2-Nitroaniline						<10.2			
2-Nitrophenol						<10.2			
3,3-Dichlorobenzidine						<51.0			
3,3-Dimethylbenzidine						<10.2			
3/4-Methylphenol						<10.2			
3-Chloropropene						<2			
3-Methylcholanthrene						<10.2			
3-Nitroaniline						<10.2			
4,4'-DDD						<.0320			
4,4'-DDE						<.0320			
4,4'-DDT						<.0320			
4,6-Dinitro-2-methylphenol						<10.2			
4-Aminobiphenyl						<10.2			
4-Bromophenyl phenyl ether						<10.2			
4-Chloro-3-methylphenol						<10.2			
4-Chloroaniline						<10.2			
4-Chlorophenyl phenyl ether						<10.2			
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline						<10.2			
4-Nitrophenol						<10.2			
5-Nitro-o-toluidine						<10.2			
7,12-Dimethylbenz [a] anthracene						<10.2			
Acenaphthene						<10.2			
Acenaphthylene						<10.2			
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile						<10000			
Acetophenone						<10.2			
Acrolein						<10			
Acrylonitrile	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Aldrin						<.0320			
alpha-BHC						<.0320			
alpha-Chlordane									
Anthracene						<10.2			

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

Table 9

Analytical Data Summary for MW-23

Constituents	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene							<1		
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene							<10.9		
1,2,4-Trichlorobenzene							<5		
1,2-Dibromo-3-Chloropropane	<1.200	<1.200	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.340	<.340	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene							<10.9		
1,3-Dichlorobenzene							<1		
1,3-Dichloropropane							<1		
1,3-Dinitrobenzene							<10.9		
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone							<10.9		
1,4-Phenylenediamine							<10.9		
1-Naphthylamine							<10.9		
2,2-Dichloropropane							<4		
2,3,4,6-Tetrachlorophenol							<10.9		
2,4,5-T [2C]							<1.07		
2,4,5-TP [Silvex] [2C]							<1.07		
2,4,5-Trichlorophenol							<10.9		
2,4,6-Trichlorophenol							<10.9		
2,4-D [2C]							<1.07		
2,4-Dichlorophenol							<10.9		
2,4-Dimethylphenol							<10.9		
2,4-Dinitrophenol							<21.7		
2,4-Dinitrotoluene							<10.9		
2,6-Dichlorophenol							<10.9		
2,6-Dinitrotoluene							<10.9		
2-Acetylaminofluorene							<10.9		
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene							<10.9		
2-Chlorophenol							<10.9		
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene							<10.9		
2-Methylphenol							<10.9		
2-Naphthylamine							<10.9		
2-Nitroaniline							<10.9		
2-Nitrophenol							<10.9		
3,3-Dichlorobenzidine							<10.9		
3,3-Dimethylbenzidine							<10.9		
3/4-Methylphenol							<10.9		
3-Chloropropene							<2		
3-Methylcholanthrene							<10.9		
3-Nitroaniline							<10.9		
4,4'-DDD							<.0667		
4,4'-DDE							<.0667		
4,4'-DDT							<.0667		
4,6-Dinitro-2-methylphenol							<10.9		
4-Aminobiphenyl							<10.9		
4-Bromophenyl phenyl ether							<10.9		
4-Chloro-3-methylphenol							<10.9		
4-Chloroaniline							<10.9		
4-Chlorophenyl phenyl ether							<10.9		
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline							<10.9		
4-Nitrophenol							<10.9		
5-Nitro-o-toluidine							<10.9		
7,12-Dimethylbenz [a] anthracene							<10.9		
Acenaphthene							<10.9		
Acenaphthylene							<10.9		
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile							<10000		
Acetophenone							<10.9		
Acrolein							<10		
Acrylonitrile	<10.00	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin							<.0667		
alpha-BHC							<.0667		
alpha-Chlordane									
Anthracene							<10.9		

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

Table 9

Analytical Data Summary for MW-23

Constituents	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<1.00	<1.00	<1.00
1,1-Dichloropropene					
1,2,3-Trichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene					
1,2,4-Trichlorobenzene					
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene					
1,3-Dichlorobenzene					
1,3-Dichloropropane					
1,3-Dinitrobenzene					
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone					
1,4-Phenylenediamine					
1-Naphthylamine					
2,2-Dichloropropane					
2,3,4,6-Tetrachlorophenol					
2,4,5-T [2C]					
2,4,5-TP [Silvex] [2C]					
2,4,5-Trichlorophenol					
2,4,6-Trichlorophenol					
2,4-D [2C]					
2,4-Dichlorophenol					
2,4-Dimethylphenol					
2,4-Dinitrophenol					
2,4-Dinitrotoluene					
2,6-Dichlorophenol					
2,6-Dinitrotoluene					
2-Acetylaminofluorene					
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene					
2-Chlorophenol					
2-Hexanone	<10.00	<10.00	<5.00	<5.00	<5.00
2-Methylnaphthalene					
2-Methylphenol					
2-Naphthylamine					
2-Nitroaniline					
2-Nitrophenol					
3,3-Dichlorobenzidine					
3,3-Dimethylbenzidine					
3/4-Methylphenol					
3-Chloropropene					
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	<10.00	<10.00	<5.00	<5.00	<5.00
4-Nitroaniline					
4-Nitrophenol					
5-Nitro-o-toluidine					
7,12-Dimethylbenz [a] anthracene					
Acenaphthene					
Acenaphthylene					
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile					
Acetophenone					
Acrolein					
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin					
alpha-BHC					
alpha-Chlordane					
Anthracene					

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

Table 9

Analytical Data Summary for MW-23

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	3/11/2010
Antimony	ug/L	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00
Arsenic	ug/L	4.04	<1.00	3.10	1.88	<1.00	1.45 *	<1.00	<1.00
Barium	ug/L	231.0	163.0	211.0	209.5 *	186.5 *	293.0 *	220.0	209.0
Benzene	ug/L	<.16	<.16	<.16	<.50	<.50	<.50	<.50	<.50
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	ug/L	<1.000	<.028	<1.000	<1.000	<1.000	3.720 *	<1.000	<1.000
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	<.76	<.76	<.76	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<5.0
Bromoform	ug/L	<.43	<.43	<.43	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	ug/L	<.48	<.48	<.48	<4.00	<4.00	<4.00	<4.00	<4.00
Butyl benzyl phthalate	ug/L								
Cadmium	ug/L	<.500	2.450	<.500	2.847 *	1.330 *	3.370 *	4.100	<.500
Carbon Disulfide	ug/L	<.18	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	ug/L	<.31	.37	<.31	<2.00	<2.00	<2.00	<2.00	<10.00
Chlordane	ug/L								
Chlorobenzene	ug/L	<.17	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<5.00
Chlorobenzilate	ug/L								
Chlorodibromomethane	ug/L	<.26	<.26	<.26	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	ug/L	<.5	<.5	<.5	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	ug/L	<.17	<.17	<.17	<1.00	<2.50	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.2	<.2	<.2	<3.0	<3.0	<3.0	<3.0	<3.0
Chloroprene	ug/L								
Chromium	ug/L	<20.00	<1.73	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Chrysene	ug/L								
cis-1,2-Dichloroethene	ug/L	<.37	<.37	<.37	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	ug/L	<.23	<.23	<.23	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	ug/L	<20.000	<1.400	<20.000	<20.000	<20.000	<20.000	<20.000	2.520
Copper	ug/L	<20.00	<13.10	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Cyanide	mg/L								
delta-BHC	ug/L								
Diallate [cis or trans]	ug/L								
Dibenz [a,h] anthracene	ug/L								
Dibenzofuran	ug/L								
Dichlorodifluoromethane	ug/L								
Dieldrin	ug/L								
Diethyl phthalate	ug/L								
Dimethoate	ug/L								
Dimethyl phthalate	ug/L								
Dimethylaminoazobenzene	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	<.25	<.25	<.25	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur	ug/L								
Fluoranthene	ug/L								
Fluorene	ug/L								
gamma-BHC [Lindane]	ug/L								
gamma-Chlordane	ug/L								
Heptachlor	ug/L								
Heptachlor Epoxide	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorobutadiene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Hexachloropropene	ug/L								
Indeno [1,2,3-cd] pyrene	ug/L								
Iodomethane	ug/L	<.4	<.4	<.4	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol	ug/L								

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

Table 9

Analytical Data Summary for MW-23

Constituents	8/31/2010	2/16/2011	7/7/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	10/3/2013	4/22/2014
Antimony	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00
Arsenic	<1.00	<1.00	<1.00	<1.00	6.25 *	<1.00	<1.00	1.22	<1.00
Barium	223.0 *	257.0	242.0	211.0	197.9 *	256.0	239.0	229.0	185.0
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene			<10.0			<10.0			
Benzo [a] pyrene			<10.0			<10.0			
Benzo [b] fluoranthene			<10.0			<10.0			
Benzo [g,h,i] perylene			<10.0			<10.0			
Benzo [k] fluoranthene			<10.0			<10.0			
Benzyl alcohol			<10.0			<10.0			
Beryllium	<1.000	1.370	<1.000	<1.000	<4.000	1.050	<1.000	<1.000	<1.000
beta-BHC			<.0320			<.0320			
Bis[2-chloroethoxy]methane			<10.0			<10.0			
Bis[2-chloroethyl]ether			<10.0			<10.0			
Bis[2-chloroisopropyl]ether			<10.0			<10.0			
Bis[2-ethylhexyl]phthalate			<10.0			<10.0			
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<1.00	<5.00
Bromomethane	<4.00	<4.00	<4.00	<20.00	<50.00	<5.00	<4.00	4.02	<4.00
Butyl benzyl phthalate			<10.0			<10.0			
Cadmium	<.500	1.550	.730	7.580	1.350 *	<.500	2.340	<1.000	1.100
Carbon Disulfide	<4.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<5.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlordane			<2.00			<2.00			
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate			<10.0			<10.0			
Chlorodibromomethane	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chloroprene			<1			<1			
Chromium	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<3.00	<20.00
Chrysene			<10.0			<10.0			
cis-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	4.405 *	4.490	4.840	2.500	7.300 *	2.390	1.500	3.420	<2.410
Copper	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<3.00	<20.00
Cyanide			<.01			<.01			
delta-BHC			<.0320			<.0320			
Diallate [cis or trans]			<10.0			<10.0			
Dibenz [a,h] anthracene			<10.0			<10.0			
Dibenzofuran			<10.0			<10.0			
Dichlorodifluoromethane			<3			<3			
Dieldrin			<.0320			<.0320			
Diethyl phthalate			<10.0			<10.0			
Dimethoate			<10.0			<10.0			
Dimethyl phthalate			<10.0			<10.0			
Dimethylaminoazobenzene			<10.0			<10.0			
Di-n-butyl phthalate			<10.0			<10.0			
Di-n-octyl phthalate			<10.0			<10.0			
Dinoseb			<10.0			<10.0			
Diphenylamine			<10.0			<10.0			
Disulfoton			<10.0			<10.0			
Endosulfan I			<.0320			<.0320			
Endosulfan II			<.0320			<.0320			
Endosulfan sulfate			<.0320			<.0320			
Endrin			<.0320			<.0320			
Endrin aldehyde			<.0320			<.0320			
Ethyl Methacrylate			<2			<2			
Ethyl Methanesulfonate			<10.0			<10.0			
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur			<20.0			<20.0			
Fluoranthene			<10.0			<10.0			
Fluorene			<10.0			<10.0			
gamma-BHC [Lindane]			<.0320			<.0320			
gamma-Chlordane			<.032			<.032			
Heptachlor			<.0320			<.0320			
Heptachlor Epoxide			<.0320			<.0320			
Hexachlorobenzene			<10.0			<10.0			
Hexachlorobutadiene			<10.0			<10.0			
Hexachlorocyclopentadiene			<10.0			<10.0			
Hexachloroethane			<10.0			<10.0			
Hexachloropropene			<10.0			<10.0			
Indeno [1,2,3-cd] pyrene			<10.0			<10.0			
Iodomethane	<10.0	<10.0	<20.0	<20.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol			<10000			<10000			

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

Table 9

Analytical Data Summary for MW-23

Constituents	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/26/2018
Antimony	<6.00	<1.00	<1.00 *	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00
Arsenic	<1.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	1.46	<2.00
Barium	243.0	62.9	173.5 *	181.0	175.0	172.0	149.0	174.0	163.0
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene						<10.2			
Benzo [a] pyrene						<10.2			
Benzo [b] fluoranthene						<10.2			
Benzo [g,h,i] perylene						<10.2			
Benzo [k] fluoranthene						<10.2			
Benzyl alcohol						<10.2			
Beryllium	<1.000	<1.000	<1.000 *	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC						<.0320			
Bis[2-chloroethoxy]methane						<10.2			
Bis[2-chloroethyl]ether						<10.2			
Bis[2-chloroisopropyl]ether						<10.2			
Bis[2-ethylhexyl]phthalate						<5.0			
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<1.00	<4.00	<4.00
Butyl benzyl phthalate						<10.2			
Cadmium	<1.000	2.840	<.500	<.500	<1.000	<.500	<1.000	<.500	<.500
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlordane						<2.00			
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate						<10.2			
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00	<3.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chloroprene						<1			
Chromium	<20.00	<5.00	<5.00	<5.00	<1.00	<5.00	<1.00	<5.00	<5.00
Chrysene						<10.2			
cis-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	3.850	<1.000	.356 *	<1.000	<1.000	<.500	<1.000	<1.000	<.500
Copper	<4.00	2.82	<2.00 *	<1.00	<5.00	<5.00	<5.00	<2.00	<5.00
Cyanide						<.01			
delta-BHC						<.0320			
Diallate [cis or trans]						<10.2			
Dibenz [a,h] anthracene						<10.2			
Dibenzofuran						<10.2			
Dichlorodifluoromethane						<3			
Dieldrin						<.0320			
Diethyl phthalate						<10.2			
Dimethoate						<10.2			
Dimethyl phthalate						<10.2			
Dimethylaminoazobenzene						<10.2			
Di-n-butyl phthalate						<10.2			
Di-n-octyl phthalate						<20.4			
Dinoseb						<10.2			
Diphenylamine						<10.2			
Disulfoton						<10.2			
Endosulfan I						<.0320			
Endosulfan II						<.0320			
Endosulfan sulfate						<.0320			
Endrin						<.0320			
Endrin aldehyde						<.0320			
Ethyl Methacrylate						<2			
Ethyl Methanesulfonate						<10.2			
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur						<20.4			
Fluoranthene						<10.2			
Fluorene						<10.2			
gamma-BHC [Lindane]						<.0320			
gamma-Chlordane									
Heptachlor						<.0320			
Heptachlor Epoxide						<.0320			
Hexachlorobenzene						<10.2			
Hexachlorobutadiene						<10.2			
Hexachlorocyclopentadiene						<20.4			
Hexachloroethane						<10.2			
Hexachloropropene						<10.2			
Indeno [1,2,3-cd] pyrene						<10.2			
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol						<10000			

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

Table 9

Analytical Data Summary for MW-23

Constituents	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023
Antimony	<1.00	1.63 *	<1.00	<1.00	<2.00	<2.00	<2.00	<2.00	<2.00
Arsenic	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Barium	162.0	157.5 *	165.0	140.0	152.5 *	150.0	127.0	148.0	157.0
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene							<10.9		
Benzo [a] pyrene							<10.9		
Benzo [b] fluoranthene							<10.9		
Benzo [g,h,i] perylene							<10.9		
Benzo [k] fluoranthene							<10.9		
Benzyl alcohol							<10.9		
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC							<.0667		
Bis[2-chloroethoxy]methane							<10.9		
Bis[2-chloroethyl]ether							<10.9		
Bis[2-chloroisopropyl]ether							<10.9		
Bis[2-ethylhexyl]phthalate							<10.9		
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Butyl benzyl phthalate							<10.9		
Cadmium	<.500	<1.000 *	<.100	<1.000	<.068 *	<.100	<.100	<.100	<.073
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlordane							<2.08		
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate							<10.9		
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chloroprene							<1		
Chromium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chrysene							<10.9		
cis-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	<.500	<1.000 *	<.500	<1.000	<.172 *	<.500	<.500	<.500	<.500
Copper	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cyanide							<.01		
delta-BHC							<.0667		
Diallate [cis or trans]							<10.9		
Dibenz [a,h] anthracene							<10.9		
Dibenzofuran							<10.9		
Dichlorodifluoromethane							<3		
Dieldrin							<.0667		
Diethyl phthalate							<10.9		
Dimethoate							<10.9		
Dimethyl phthalate							<10.9		
Dimethylaminoazobenzene							<10.9		
Di-n-butyl phthalate							<10.9		
Di-n-octyl phthalate							<21.7		
Dinoseb							<10.9		
Diphenylamine							<10.9		
Disulfoton							<10.9		
Endosulfan I							<.0667		
Endosulfan II							<.0667		
Endosulfan sulfate							<.0667		
Endrin							<.0667		
Endrin aldehyde							<.0667		
Ethyl Methacrylate							<2		
Ethyl Methanesulfonate							<10.9		
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur							<10.9		
Fluoranthene							<10.9		
Fluorene							<10.9		
gamma-BHC [Lindane]							<.0667		
gamma-Chlordane									
Heptachlor							<.0667		
Heptachlor Epoxide							<.0667		
Hexachlorobenzene							<10.9		
Hexachlorobutadiene							<10.9		
Hexachlorocyclopentadiene							<10.9		
Hexachloroethane							<10.9		
Hexachloropropene							<10.9		
Indeno [1,2,3-cd] pyrene							<10.9		
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol							<10000		

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

Table 9

Analytical Data Summary for MW-23

Constituents	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
Antimony	<2.00	<2.00	<2.00	<1.00	1.20
Arsenic	<1.00	<2.00	<4.00	<2.00	2.00
Barium	146.0	158.0 *	23.3	39.1	22.9
Benzene	<.50	<.50	<1.00	<1.00	<1.00
Benzo [a] anthracene					
Benzo [a] pyrene					
Benzo [b] fluoranthene					
Benzo [g,h,i] perylene					
Benzo [k] fluoranthene					
Benzyl alcohol					
Beryllium	<1.000	<1.000	<4.000	<.500	<.500
beta-BHC					
Bis[2-chloroethoxy]methane					
Bis[2-chloroethyl]ether					
Bis[2-chloroisopropyl]ether					
Bis[2-ethylhexyl]phthalate					
Bromochloromethane	<5.00	<5.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<1.00	<1.00	<1.00
Bromomethane	<4.00	<4.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate					
Cadmium	<.200	<.200	<.800	<.200	<.200
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<2.00	<1.00	<1.00	<1.00
Chlordane					
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate					
Chlorodibromomethane	<5.00	<5.00	<1.00	<1.00	<1.00
Chloroethane	<4.0	<4.0	<1.0	<1.0	<1.0
Chloroform	<3.00	<3.00	<1.00	<1.00	<1.00
Chloromethane	<3.0	<3.0	<1.0	<1.0	<1.0
Chloroprene					
Chromium	<5.00	<5.00	<8.00	1.80	4.00
Chrysene					
cis-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	<5.00	<5.00	<1.00	<1.00	<1.00
Cobalt	<.500	<.500	.400	<.500	<.500
Copper	<5.00	<5.00	<4.00	<5.00	<5.00
Cyanide					
delta-BHC					
Diallate [cis or trans]					
Dibenz [a,h] anthracene					
Dibenzofuran					
Dichlorodifluoromethane					
Dieldrin					
Diethyl phthalate					
Dimethoate					
Dimethyl phthalate					
Dimethylaminoazobenzene					
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	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur					
Fluoranthene					
Fluorene					
gamma-BHC [Lindane]					
gamma-Chlordane					
Heptachlor					
Heptachlor Epoxide					
Hexachlorobenzene					
Hexachlorobutadiene					
Hexachlorocyclopentadiene					
Hexachloroethane					
Hexachloropropene					
Indeno [1,2,3-cd] pyrene					
Iodomethane	<10.0	<10.0	<1.0	<1.0	<1.0
Isobutanol					

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

Table 9

Analytical Data Summary for MW-23

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	3/11/2010
Isodrin	ug/L								
Isophorone	ug/L								
Isosafrole	ug/L								
Kepone	ug/L								
Lead	ug/L	5.060	<.370	<4.000	<4.000	<4.000	4.400 *	<4.000	<4.000
MP-Xylene	ug/L								
Mercury	ug/L								
Methacrylonitrile	ug/L								
Methapyrilene	ug/L								
Methoxychlor	ug/L								
Methyl Methacrylate	ug/L								
Methyl Methanesulfonate	ug/L								
Methylene Bromide	ug/L	<.3	<.3	<.3	<1.0	<1.0	<1.0	<1.0	<50.0
Methylene Chloride	ug/L	<.45	<.45	<.45	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene	ug/L								
Nickel	ug/L	<50.0	<4.6	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Nitrobenzene	ug/L								
N-Nitrosodiethylamine	ug/L								
N-Nitrosodimethylamine	ug/L								
N-Nitrosodi-n-butylamine	ug/L								
N-Nitrosodi-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								
o-Xylene	ug/L								
Parathion-Ethyl	ug/L								
Parathion-Methyl	ug/L								
PCB-1016	ug/L								
PCB-1221	ug/L								
PCB-1232	ug/L								
PCB-1242	ug/L								
PCB-1248	ug/L								
PCB-1254	ug/L								
PCB-1260	ug/L								
Pentachlorobenzene	ug/L								
Pentachloronitrobenzene	ug/L								
Pentachlorophenol [2C]	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	ug/L	<5.00	<1.44	6.21	9.13 *	7.93 *	5.97 *	12.80	9.11
Silver	ug/L	<20.00	<2.61	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Styrene	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<5.00
Sulfide	mg/L								
Tetrachloroethene	ug/L	.52	<.38	<.38	<1.00	<1.00	<1.00	<1.00	<5.00
Thallium	ug/L	<2.0	<.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin	ug/L								
Tin	ug/L								
Toluene	ug/L	<.14	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	mg/L								
Toxaphene	ug/L								
trans-1,2-Dichloroethene	ug/L	<.31	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	ug/L	<.17	<.17	<.17	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	ug/L	<1.8	<1.8	<1.8	<10.0	<10.0	<10.0	<10.0	<50.0
Trichloroethene	ug/L	<.24	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.26	<.26	<.26	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	ug/L	<50.00	<1.60	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00
Vinyl Acetate	ug/L	<1.36	<1.36	<1.36	<2.50	<2.00	<2.00	<2.00	<2.00
Vinyl Chloride	ug/L	<.26	<.26	<.26	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	ug/L	<.3	<.3	<.3	<3.0	<3.0	<3.0	<3.0	<7.5
Zinc	ug/L	36.60	<5.27	63.60	32.55 *	28.55 *	41.85 *	51.90	47.30

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

Table 9

Analytical Data Summary for MW-23

Constituents	8/31/2010	2/16/2011	7/7/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	10/3/2013	4/22/2014
Isodrin			<10.0			<10.0			
Isophorone			<10.0			<10.0			
Isosafrole			<10.0			<10.0			
Kepone			<10.0			<10.0			
Lead	<4.000	<4.000	<4.000	<4.000	6.950 *	<4.000	<4.000	<4.000	<4.000
MP-Xylene						<2	<2		
Mercury			<.200			<.267			
Methacrylonitrile			<1			<2			
Methapyrilene			<10.0			<10.0			
Methoxychlor			<.0320			<.0320			
Methyl Methacrylate			<2			<2			
Methyl Methanesulfonate			<10.0			<10.0			
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene			<5			<5			
Nickel	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<10.0	<50.0
Nitrobenzene			<10.0			<10.0			
N-Nitrosodiethylamine			<10.0			<10.0			
N-Nitrosodimethylamine			<10.0			<10.0			
N-Nitrosodi-n-butylamine			<10.0			<10.0			
N-Nitrosodi-n-propylamine			<10.0			<10.0			
N-Nitrosodiphenylamine			<10.0			<10.0			
N-Nitrosomethylethylamine			<10.0			<10.0			
N-Nitrosopiperidine			<10.0			<10.0			
N-Nitrosopyrrolidine			<10.0			<10.0			
O,O,O-Triethyl Phosphorothioate			<10.0			<10.0			
o-Toluidine			<10.0			<10.0			
o-Xylene						<1	<1		
Parathion-Ethyl			<10.0			<10.0			
Parathion-Methyl			<10.0			<10.0			
PCB-1016			<.800			<.800			
PCB-1221			<.800			<.800			
PCB-1232			<.800			<.800			
PCB-1242			<.800			<.800			
PCB-1248			<.800			<.800			
PCB-1254			<.800			<.800			
PCB-1260			<.800			<.800			
Pentachlorobenzene			<10.0			<10.0			
Pentachloronitrobenzene			<10.0			<10.0			
Pentachlorophenol [2C]			<10.0			<10.0			
Phenacetin			<10.0			<10.0			
Phenanthrene			<10.0			<10.0			
Phenol			<10.0			<10.0			
Phorate			<10.0			<10.0			
Pronamide			<10.0			<10.0			
Propionitrile			<10			<10			
Pyrene			<10.0			<10.0			
Safrole			<10.0			<10.0			
Selenium	9.50 *	7.26	7.64	7.33	44.60 *	<5.00	<5.00	<4.00	<1.00
Silver	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Styrene	<4.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfide			<.120			<.230			
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin			<10.0			<10.0			
Tin			<100			<100			
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids									178.00
Toxaphene			<2.00			<2.00			
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<10.00	<5.00	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<10.00	<5.00
Vinyl Acetate	<2.00	<4.00	<2.00	<2.00	<5.00	<2.00	<2.00	<2.00	<2.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Zinc	24.75 *	<20.00	<20.00	<20.00	24.40 *	<20.00	41.40	94.50	<40.00

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

Table 9

Analytical Data Summary for MW-23

Constituents	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/26/2018
Isodrin						<10.2			
Isophorone						<10.2			
Isosafrole						<10.2			
Kepone						<10.2			
Lead	<3.000	<1.000	.431 *	<1.000	<.500	<.500	<1.000	<1.000	<.500
MP-Xylene									
Mercury						<.200			
Methacrylonitrile						<10			
Methapyrilene						<10.2			
Methoxychlor						<.0320			
Methyl Methacrylate						<2			
Methyl Methanesulfonate						<10.2			
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<3.00 *	<1.00	<1.00	<5.00	<5.00	<5.00	<5.00
Naphthalene						<5			
Nickel	<10.0	<5.0	<3.0 *	<1.0	<5.0	<5.0	<5.0	<1.0	<5.0
Nitrobenzene						<10.2			
N-Nitrosodiethylamine						<10.2			
N-Nitrosodimethylamine						<10.2			
N-Nitrosodi-n-butylamine						<10.2			
N-Nitrosodi-n-propylamine						<10.2			
N-Nitrosodiphenylamine						<10.2			
N-Nitrosomethylethylamine						<10.2			
N-Nitrosopiperidine						<10.2			
N-Nitrosopyrrolidine						<10.2			
O,O,O-Triethyl Phosphorothioate						<10.2			
o-Toluidine						<10.2			
o-Xylene									
Parathion-Ethyl						<10.2			
Parathion-Methyl						<10.2			
PCB-1016						<.851			
PCB-1221						<.851			
PCB-1232						<.851			
PCB-1242						<.851			
PCB-1248						<.851			
PCB-1254						<.851			
PCB-1260						<.851			
Pentachlorobenzene						<10.2			
Pentachloronitrobenzene						<10.2			
Pentachlorophenol [2C]						<10.2			
Phenacetin						<10.2			
Phenanthrene						<10.2			
Phenol						<10.2			
Phorate						<10.2			
Pronamide						<10.2			
Propionitrile						<10			
Pyrene						<10.2			
Safrole						<10.2			
Selenium	<2.00	<5.00	<5.00	<5.00	<2.00	<3.00	<3.00	<3.00	<3.00
Silver	<20.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<.50	<1.00
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfide						<1.000			
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
Thionazin						<10.2			
Tin						<5			
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	385.00	5.63	22.80 *	21.00	17.60	<1.00	5.67	6.00	<1.00
Toxaphene						<2.00			
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<10.00	<1.00	<2.50 *	<2.00	<1.00	<1.00	<1.00	<4.00	<1.00
Vinyl Acetate	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Zinc	<20.00	21.20	<10.00	<10.00	<10.00	<20.00	<20.00	<20.00	<20.00

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

Table 9

Analytical Data Summary for MW-23

Constituents	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023
Isodrin							<10.9		
Isophorone							<10.9		
Isosafrole							<10.9		
Kepone							<10.9		
Lead	<.500	<.500	<.500	<1.000	<.385 *	<.500	<.500	<.500	<.500
MP-Xylene									
Mercury							<.200		
Methacrylonitrile							<10		
Methapyrilene							<10.9		
Methoxychlor							<.0667		
Methyl Methacrylate							<2		
Methyl Methanesulfonate							<10.9		
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene							<5		
Nickel	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Nitrobenzene							<10.9		
N-Nitrosodiethylamine							<10.9		
N-Nitrosodimethylamine							<10.9		
N-Nitrosodi-n-butylamine							<10.9		
N-Nitrosodi-n-propylamine							<10.9		
N-Nitrosodiphenylamine							<10.9		
N-Nitrosomethylethylamine							<10.9		
N-Nitrosopiperidine							<10.9		
N-Nitrosopyrrolidine							<10.9		
O,O,O-Triethyl Phosphorothioate							<10.9		
o-Toluidine							<10.9		
o-Xylene									
Parathion-Ethyl							<10.9		
Parathion-Methyl							<10.9		
PCB-1016							<.833		
PCB-1221							<.833		
PCB-1232							<.833		
PCB-1242							<.833		
PCB-1248							<.833		
PCB-1254							<.833		
PCB-1260							<.833		
Pentachlorobenzene							<10.9		
Pentachloronitrobenzene							<10.9		
Pentachlorophenol [2C]							<10.9		
Phenacetin							<10.9		
Phenanthrene							<10.9		
Phenol							<10.9		
Phorate							<10.9		
Pronamide							<10.9		
Propionitrile							<10		
Pyrene							<10.9		
Safrole							<10.9		
Selenium	<2.00	<2.00 *	<3.00	<2.00	<1.76 *	<1.71	<1.60	<5.00	<2.09
Silver	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfide							<.781		
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Thionazin							<10.9		
Tin							<5		
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	<1.00	4.00 *	2.38	17.60	6.07 *	2.75	<1.00	3.32 *	<1.75
Toxaphene							<2.08		
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.00	<1.00 *	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<1.00	<2.00 *	<5.00	<3.00	<1.28 *	<5.00	<5.00	<5.00	<5.00
Vinyl Acetate	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Zinc	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 9

Analytical Data Summary for MW-23

Constituents	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
Isodrin					
Isophorone					
Isosafrole					
Kepone					
Lead	<.500	<.500	<4.000	<1.000	<1.000
MP-Xylene					
Mercury					
Methacrylonitrile					
Methapyrilene					
Methoxychlor					
Methyl Methacrylate					
Methyl Methanesulfonate					
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene					
Nickel	<5.0	<5.0	<4.0	<5.0	<5.0
Nitrobenzene					
N-Nitrosodiethylamine					
N-Nitrosodimethylamine					
N-Nitrosodi-n-butylamine					
N-Nitrosodi-n-propylamine					
N-Nitrosodiphenylamine					
N-Nitrosomethylethylamine					
N-Nitrosopiperidine					
N-Nitrosopyrrolidine					
O,O,O-Triethyl Phosphorothioate					
o-Toluidine					
o-Xylene					
Parathion-Ethyl					
Parathion-Methyl					
PCB-1016					
PCB-1221					
PCB-1232					
PCB-1242					
PCB-1248					
PCB-1254					
PCB-1260					
Pentachlorobenzene					
Pentachloronitrobenzene					
Pentachlorophenol [2C]					
Phenacetin					
Phenanthrene					
Phenol					
Phorate					
Pronamide					
Propionitrile					
Pyrene					
Safrole					
Selenium	<2.19	<1.50 *	<4.00	<2.00	<2.00
Silver	<1.00	<1.00	<4.00	<5.00	<5.00
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfide					
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	1.5	<1.0	<2.0	<.5	<.5
Thionazin					
Tin					
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	<1.13	<1.88			
Toxaphene					
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<1.00	<1.00	<1.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<5.0	<5.0	<5.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<1.00	<1.00	<1.00
Vanadium	<5.00	<5.00	<20.00	<2.00	<2.00
Vinyl Acetate	<10.00	<10.00	<5.00	<5.00	<5.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.0	<3.0	<2.0	<2.0	<2.0
Zinc	<20.00	29.65 *	<20.00	5.00	7.90

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

Table 9

Analytical Data Summary for MW-24

Constituents	Units	4/26/2012	5/15/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016
1,1,1,2-Tetrachloroethane	ug/L								
1,1,1-Trichloroethane	ug/L								
1,1,2,2-Tetrachloroethane	ug/L								
1,1,2-Trichloroethane	ug/L								
1,1-Dichloroethane	ug/L								
1,1-Dichloroethene	ug/L								
1,1-Dichloropropene	ug/L								
1,2,3-Trichloropropane	ug/L								
1,2,4,5-Tetrachlorobenzene	ug/L								
1,2,4-Trichlorobenzene	ug/L								
1,2-Dibromo-3-Chloropropane	ug/L								
1,2-Dibromoethane	ug/L								
1,2-Dichlorobenzene	ug/L								
1,2-Dichloroethane	ug/L								
1,2-Dichloropropane	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								
1,4-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 [2C]	ug/L								
2,4,5-TP [Silvex] [2C]	ug/L								
2,4,5-Trichlorophenol	ug/L								
2,4,6-Trichlorophenol	ug/L								
2,4-D [2C]	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	ug/L								
2-Chloronaphthalene	ug/L								
2-Chlorophenol	ug/L								
2-Hexanone	ug/L								
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								
3/4-Methylphenol	ug/L								
3-Chloropropene	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	ug/L								
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								
Acetonitrile	ug/L								
Acetophenone	ug/L								
Acrolein	ug/L								
Acrylonitrile	ug/L								
Aldrin	ug/L								
alpha-BHC	ug/L								
Anthracene	ug/L								
Antimony	ug/L								

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

Table 9

Analytical Data Summary for MW-24

Constituents	3/27/2017	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021
1,1,1,2-Tetrachloroethane									
1,1,1-Trichloroethane									
1,1,2,2-Tetrachloroethane									
1,1,2-Trichloroethane									
1,1-Dichloroethane									
1,1-Dichloroethene									
1,1-Dichloropropene									
1,2,3-Trichloropropene									
1,2,4,5-Tetrachlorobenzene									
1,2,4-Trichlorobenzene									
1,2-Dibromo-3-Chloropropane									
1,2-Dibromoethane									
1,2-Dichlorobenzene									
1,2-Dichloroethane									
1,2-Dichloropropene									
1,3,5-Trinitrobenzene									
1,3-Dichlorobenzene									
1,3-Dichloropropene									
1,3-Dinitrobenzene									
1,4-Dichlorobenzene									
1,4-Naphthoquinone									
1,4-Phenylenediamine									
1-Naphthylamine									
2,2-Dichloropropene									
2,3,4,6-Tetrachlorophenol									
2,4,5-T [2C]									
2,4,5-TP [Silvex] [2C]									
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol									
2,4-D [2C]									
2,4-Dichlorophenol									
2,4-Dimethylphenol									
2,4-Dinitrophenol									
2,4-Dinitrotoluene									
2,6-Dichlorophenol									
2,6-Dinitrotoluene									
2-Acetylaminofluorene									
2-Butanone									
2-Chloronaphthalene									
2-Chlorophenol									
2-Hexanone									
2-Methylnaphthalene									
2-Methylphenol									
2-Naphthylamine									
2-Nitroaniline									
2-Nitrophenol									
3,3-Dichlorobenzidine									
3,3-Dimethylbenzidine									
3/4-Methylphenol									
3-Chloropropene									
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									
4-Nitroaniline									
4-Nitrophenol									
5-Nitro-o-toluidine									
7,12-Dimethylbenz [a] anthracene									
Acenaphthene									
Acenaphthylene									
Acetone									
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile									
Aldrin									
alpha-BHC									
Anthracene									
Antimony									

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

Table 9

Analytical Data Summary for MW-24

Constituents	10/7/2021	4/6/2022	7/8/2022	8/23/2022	9/29/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
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		<.563		<.455	<.426	<.394	<.415	<.286	<1.000
1,1-Dichloroethene		<2		<2	<2	<2	<2	<2	<1
1,1-Dichloropropene					<1	<1			
1,2,3-Trichloropropane		<1		<1	<1	<1	<1	<1	<1
1,2,4,5-Tetrachlorobenzene					<10	<10			
1,2,4-Trichlorobenzene					<5	<5			
1,2-Dibromo-3-Chloropropane		<5		<5	<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
1,3,5-Trinitrobenzene					<10	<10			
1,3-Dichlorobenzene					<1	<1			
1,3-Dichloropropane					<1	<1			
1,3-Dinitrobenzene					<10	<10			
1,4-Dichlorobenzene		<1		<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone					<10	<10			
1,4-Phenylenediamine					<10	<10			
1-Naphthylamine					<10	<10			
2,2-Dichloropropane					<4	<4			
2,3,4,6-Tetrachlorophenol					<10	<10			
2,4,5-T [2C]					<.5	<.5			
2,4,5-TP [Silvex] [2C]					<.5	<.5			
2,4,5-Trichlorophenol					<10	<10			
2,4,6-Trichlorophenol					<10	<10			
2,4-D [2C]					<2	<2			
2,4-Dichlorophenol					<10	<10			
2,4-Dimethylphenol					<10	<10			
2,4-Dinitrophenol					<20	<20			
2,4-Dinitrotoluene					<10	<10			
2,6-Dichlorophenol					<10	<10			
2,6-Dinitrotoluene					<10	<10			
2-Acetylaminofluorene					<10	<10			
2-Butanone		<10		<10	<10	<10	<10	<10	<10
2-Chloronaphthalene					<10	<10			
2-Chlorophenol					<10	<10			
2-Hexanone		<10		<10	<10	<10	<10	<10	<5
2-Methylnaphthalene					<10.000	<.698			
2-Methylphenol					<10	<10			
2-Naphthylamine					<10	<10			
2-Nitroaniline					<10	<10			
2-Nitrophenol					<10	<10			
3,3-Dichlorobenzidine					<10	<10			
3,3-Dimethylbenzidine					<10	<10			
3/4-Methylphenol					<10	<10			
3-Chloropropene					<2	<2			
3-Methylcholanthrene					<10	<10			
3-Nitroaniline					<10	<10			
4,4'-DDD					<.0653	<.0640			
4,4'-DDE					<.0653	<.0640			
4,4'-DDT					<.0653	<.0640			
4,6-Dinitro-2-methylphenol					<10	<10			
4-Aminobiphenyl					<10	<10			
4-Bromophenyl phenyl ether					<10	<10			
4-Chloro-3-methylphenol					<10	<10			
4-Chloroaniline					<10	<10			
4-Chlorophenyl phenyl ether					<10	<10			
4-Methyl-2-Pentanone		<10		<10	<10	<10	<10	<10	<5
4-Nitroaniline					<10	<10			
4-Nitrophenol					<10	<10			
5-Nitro-o-toluidine					<10	<10			
7,12-Dimethylbenz [a] anthracene					<10	<10			
Acenaphthene					<10	<10			
Acenaphthylene					<10	<10			
Acetone		<10		<10	<10	<10	<10	<10	<10
Acetonitrile					<10000	<10000			
Acetophenone					<10	<10			
Acrolein					<10	<10			
Acrylonitrile		<5		<5	<5	<5	<5	<5	<5
Aldrin					<.0653	<.0640			
alpha-BHC					<.0653	<.0640			
Anthracene					<10	<10			
Antimony		<2		<2	<2	<2	<2	<2	<2

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

Table 9

Analytical Data Summary for MW-24

Constituents	4/16/2025	10/27/2025
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	<1.000	<1.000
1,1-Dichloroethene	<1	<1
1,1-Dichloropropene		
1,2,3-Trichloropropene	<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
1,3,5-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 [2C]		
2,4,5-TP [Silvex] [2C]		
2,4,5-Trichlorophenol		
2,4,6-Trichlorophenol		
2,4-D [2C]		
2,4-Dichlorophenol		
2,4-Dimethylphenol		
2,4-Dinitrophenol		
2,4-Dinitrotoluene		
2,6-Dichlorophenol		
2,6-Dinitrotoluene		
2-Acetylaminofluorene		
2-Butanone	<10	<10
2-Chloronaphthalene		
2-Chlorophenol		
2-Hexanone	<5	<5
2-Methylnaphthalene		
2-Methylphenol		
2-Naphthylamine		
2-Nitroaniline		
2-Nitrophenol		
3,3-Dichlorobenzidine		
3,3-Dimethylbenzidine		
3/4-Methylphenol		
3-Chloropropene		
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	<5	<5
4-Nitroaniline		
4-Nitrophenol		
5-Nitro-o-toluidine		
7,12-Dimethylbenz [a] anthracene		
Acenaphthene		
Acenaphthylene		
Acetone	<10	<10
Acetonitrile		
Acetophenone		
Acrolein		
Acrylonitrile	<5	<5
Aldrin		
alpha-BHC		
Anthracene		
Antimony	<1	<1

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

Table 9

Analytical Data Summary for MW-24

Constituents	Units	4/26/2012	5/15/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016
Arsenic	ug/L	58.100			26.600	2.600	<2.000	6.190	<.828
Barium	ug/L	595					662	688	151
Benzene	ug/L								
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	ug/L								
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								
Bromodichloromethane	ug/L								
Bromoform	ug/L								
Bromomethane	ug/L								
Butyl benzyl phthalate	ug/L								
Cadmium	ug/L								
Carbon Disulfide	ug/L								
Carbon Tetrachloride	ug/L								
Chlordane	ug/L								
Chlorobenzene	ug/L								
Chlorobenzilate	ug/L								
Chlorodibromomethane	ug/L								
Chloroethane	ug/L								
Chloroform	ug/L								
Chloromethane	ug/L								
Chloroprene	ug/L								
Chromium	ug/L								
Chrysene	ug/L								
cis-1,2-Dichloroethene	ug/L								
cis-1,3-Dichloropropene	ug/L								
Cobalt	ug/L	42.900							
Copper	ug/L								
Cyanide	mg/L								
delta-BHC	ug/L								
Diallate [cis or trans]	ug/L								
Dibenz [a,h] anthracene	ug/L								
Dibenzofuran	ug/L								
Dichlorodifluoromethane	ug/L								
Dieldrin	ug/L								
Diethyl phthalate	ug/L								
Dimethoate	ug/L								
Dimethyl phthalate	ug/L								
Dimethylaminoazobenzene	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								
Famphur	ug/L								
Fluoranthene	ug/L								
Fluorene	ug/L								
gamma-BHC [Lindane]	ug/L								
Heptachlor	ug/L								
Heptachlor Epoxide	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorobutadiene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Hexachloropropene	ug/L								
Indeno [1,2,3-cd] pyrene	ug/L								
Iodomethane	ug/L								
Isobutanol	ug/L								
Isodrin	ug/L								
Isophorone	ug/L								

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

Table 9

Analytical Data Summary for MW-24

Constituents	3/27/2017	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021
Arsenic	<2.000	<.618	1.540	<.623	<2.000	<2.000	<.975	2.860	<1.980
Barium	172	198	259	200			761	896	735
Benzene									
Benzo [a] anthracene									
Benzo [a] pyrene									
Benzo [b] fluoranthene									
Benzo [g,h,i] perylene									
Benzo [k] fluoranthene									
Benzyl alcohol									
Beryllium									
beta-BHC									
Bis[2-chloroethoxy]methane									
Bis[2-chloroethyl]ether									
Bis[2-chloroisopropyl]ether									
Bis[2-ethylhexyl]phthalate									
Bromochloromethane									
Bromodichloromethane									
Bromoform									
Bromomethane									
Butyl benzyl phthalate									
Cadmium									
Carbon Disulfide									
Carbon Tetrachloride									
Chlordane									
Chlorobenzene									
Chlorobenzilate									
Chlorodibromomethane									
Chloroethane									
Chloroform									
Chloromethane									
Chloroprene									
Chromium									
Chrysene									
cis-1,2-Dichloroethene									
cis-1,3-Dichloropropene									
Cobalt					<.262		.880		
Copper									
Cyanide									
delta-BHC									
Diallate [cis or trans]									
Dibenz [a,h] anthracene									
Dibenzofuran									
Dichlorodifluoromethane									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethyl phthalate									
Dimethylaminoazobenzene									
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									
Famphur									
Fluoranthene									
Fluorene									
gamma-BHC [Lindane]									
Heptachlor									
Heptachlor Epoxide									
Hexachlorobenzene									
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno [1,2,3-cd] pyrene									
Iodomethane									
Isobutanol									
Isodrin									
Isophorone									

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

Table 9

Analytical Data Summary for MW-24

Constituents	10/7/2021	4/6/2022	7/8/2022	8/23/2022	9/29/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
Arsenic	2.090	<.893		<1.110	<1.390	<1.270	<1.420	<.767	9.900
Barium	785	702	679	774	834	819	712	581	700
Benzene		<.5		<.5	<.5	<.5	<.5	<.5	<1.0
Benzo [a] anthracene					<10	<10			
Benzo [a] pyrene					<10	<10			
Benzo [b] fluoranthene					<10	<10			
Benzo [g,h,i] perylene					<10	<10			
Benzo [k] fluoranthene					<10	<10			
Benzyl alcohol					<10	<10			
Beryllium		<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<4.0
beta-BHC					<.0653	<.0640			
Bis[2-chloroethoxy]methane					<10	<10			
Bis[2-chloroethyl]ether					<10	<10			
Bis[2-chloroisopropyl]ether					<10	<10			
Bis[2-ethylhexyl]phthalate					<10	<10			
Bromochloromethane		<5		<5	<5	<5	<5	<5	<1
Bromodichloromethane		<1		<1	<1	<1	<1	<1	<1
Bromoform		<5		<5	<5	<5	<5	<5	<1
Bromomethane		<4		<4	<4	<4	<4	<4	<1
Butyl benzyl phthalate					<10	<10			
Cadmium		.944	.696	.485	.417	.692	.776	1.170	1.100
Carbon Disulfide		<1		<1	<1	<1	<1	<1	<1
Carbon Tetrachloride		<2		<2	<2	<2	<2	<2	<1
Chlordane					<2.04	<2.00			
Chlorobenzene		<.480		1.040	<.967	<.911	<.499	<1.000	<1.000
Chlorobenzilate					<10	<10			
Chlorodibromomethane		<5		<5	<5	<5	<5	<5	<1
Chloroethane		<4		<4	<4	<4	<4	<4	<1
Chloroform		<3		<3	<3	<3	<3	<3	<1
Chloromethane		<3		<3	<3	<3	<3	<3	<1
Chloroprene					<1	<1			
Chromium		<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<8.0
Chrysene					<10	<10			
cis-1,2-Dichloroethene		<1		<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<5		<5	<5	<5	<5	<5	<1
Cobalt		3.130	3.660	4.230	4.160	2.830	3.230	2.220	4.300
Copper		<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	4.6
Cyanide					<.01	<.01			
delta-BHC					<.0653	<.0640			
Diallate [cis or trans]					<10	<10			
Dibenz [a,h] anthracene					<10	<10			
Dibenzofuran					<10	<10			
Dichlorodifluoromethane					<3	<3			
Dieldrin					<.0653	<.0640			
Diethyl phthalate					<10	<10			
Dimethoate					<10	<10			
Dimethyl phthalate					<10	<10			
Dimethylaminoazobenzene					<10	<10			
Di-n-butyl phthalate					<10	<10			
Di-n-octyl phthalate					<20	<20			
Dinoseb					<10	<10			
Diphenylamine					<10	<10			
Disulfoton					<10	<10			
Endosulfan I					<.0653	<.0640			
Endosulfan II					<.0653	<.0640			
Endosulfan sulfate					<.0653	<.0640			
Endrin					<.0653	<.0640			
Endrin aldehyde					<.0653	<.0640			
Ethyl Methacrylate					<2	<2			
Ethyl Methanesulfonate					<10	<10			
Ethylbenzene		<1		<1	<1	<1	<1	<1	<1
Famphur					<10	<10			
Fluoranthene					<10	<10			
Fluorene					<10	<10			
gamma-BHC [Lindane]					<.0653	<.0640			
Heptachlor					<.0653	<.0640			
Heptachlor Epoxide					<.0653	<.0640			
Hexachlorobenzene					<10	<10			
Hexachlorobutadiene					<10	<10			
Hexachlorocyclopentadiene					<10	<10			
Hexachloroethane					<10	<10			
Hexachloropropene					<10	<10			
Indeno [1,2,3-cd] pyrene					<10	<10			
Iodomethane		<10		<10	<10	<10	<10	<10	<1
Isobutanol					<10000	<10000			
Isodrin					<10	<10			
Isophorone					<10	<10			

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

Table 9

Analytical Data Summary for MW-24

Constituents	4/16/2025	10/27/2025
Arsenic	4.200	9.500
Barium	779	618
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	<.5	<.5
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	1.000	.900
Carbon Disulfide	<1	<1
Carbon Tetrachloride	<1	<1
Chlordane		
Chlorobenzene	<1.000	<1.000
Chlorobenzilate		
Chlorodibromomethane	<1	<1
Chloroethane	<1	<1
Chloroform	<1	<1
Chloromethane	<1	<1
Chloroprene		
Chromium	1.1	1.1
Chrysene		
cis-1,2-Dichloroethene	<1	<1
cis-1,3-Dichloropropene	<1	<1
Cobalt	2.900	2.000
Copper	<5.0	<5.0
Cyanide		
delta-BHC		
Diallate [cis or trans]		
Dibenz [a,h] anthracene		
Dibenzofuran		
Dichlorodifluoromethane		
Dieldrin		
Diethyl phthalate		
Dimethoate		
Dimethyl phthalate		
Dimethylaminoazobenzene		
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		
Hexachlorobutadiene		
Hexachlorocyclopentadiene		
Hexachloroethane		
Hexachloropropene		
Indeno [1,2,3-cd] pyrene		
Iodomethane	<1	<1
Isobutanol		
Isodrin		
Isophorone		

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

Table 9

Analytical Data Summary for MW-24

Constituents	Units	4/26/2012	5/15/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016
Isosafrole	ug/L								
Kepone	ug/L								
Lead	ug/L								
Mercury	ug/L								
Methacrylonitrile	ug/L								
Methapyrilene	ug/L								
Methoxychlor	ug/L								
Methyl Methacrylate	ug/L								
Methyl Methanesulfonate	ug/L								
Methylene Bromide	ug/L								
Methylene Chloride	ug/L								
Naphthalene	ug/L								
Nickel	ug/L		<50.00				11.70	28.00	<3.55
Nitrobenzene	ug/L								
N-Nitrosodiethylamine	ug/L								
N-Nitrosodimethylamine	ug/L								
N-Nitrosodi-n-butylamine	ug/L								
N-Nitrosodi-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-Ethyl	ug/L								
Parathion-Methyl	ug/L								
PCB-1016	ug/L								
PCB-1221	ug/L								
PCB-1232	ug/L								
PCB-1242	ug/L								
PCB-1248	ug/L								
PCB-1254	ug/L								
PCB-1260	ug/L								
Pentachlorobenzene	ug/L								
Pentachloronitrobenzene	ug/L								
Pentachlorophenol [2C]	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	ug/L								
Silver	ug/L								
Styrene	ug/L								
Sulfide	mg/L		<1						
Tetrachloroethene	ug/L								
Thallium	ug/L								
Thionazin	ug/L								
Tin	ug/L								
Toluene	ug/L								
Total Suspended Solids	mg/L			93300.000	5780.000	177.000	118.000	120.000	<1.880
Toxaphene	ug/L								
trans-1,2-Dichloroethene	ug/L								
trans-1,3-Dichloropropene	ug/L								
trans-1,4-Dichloro-2-Butene	ug/L								
Trichloroethene	ug/L								
Trichlorofluoromethane	ug/L								
Vanadium	ug/L								
Vinyl Acetate	ug/L								
Vinyl Chloride	ug/L								
Xylenes, total	ug/L								
Zinc	ug/L								

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

Table 9

Analytical Data Summary for MW-24

Constituents	3/27/2017	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021
Isosafrole									
Kepone									
Lead									
Mercury									
Methacrylonitrile									
Methapyrilene									
Methoxychlor									
Methyl Methacrylate									
Methyl Methanesulfonate									
Methylene Bromide									
Methylene Chloride									
Naphthalene									
Nickel	<3.02	<3.66	5.55	<2.72					
Nitrobenzene									
N-Nitrosodiethylamine									
N-Nitrosodimethylamine									
N-Nitrosodi-n-butylamine									
N-Nitrosodi-n-propylamine									
N-Nitrosodiphenylamine									
N-Nitrosomethylethylamine									
N-Nitrosopiperidine									
N-Nitrosopyrrolidine									
O,O,O-Triethyl Phosphorothioate									
o-Toluidine									
Parathion-Ethyl									
Parathion-Methyl									
PCB-1016									
PCB-1221									
PCB-1232									
PCB-1242									
PCB-1248									
PCB-1254									
PCB-1260									
Pentachlorobenzene									
Pentachloronitrobenzene									
Pentachlorophenol [2C]									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Pronamide									
Propionitrile									
Pyrene									
Safrole									
Selenium									
Silver									
Styrene									
Sulfide									
Tetrachloroethene									
Thallium									
Thionazin									
Tin									
Toluene									
Total Suspended Solids	<1.880	<1.880	<1.880	<.875	<1.630	<1.250	<.750	46.400	18.500
Toxaphene									
trans-1,2-Dichloroethene									
trans-1,3-Dichloropropene									
trans-1,4-Dichloro-2-Butene									
Trichloroethene									
Trichlorofluoromethane									
Vanadium									
Vinyl Acetate									
Vinyl Chloride									
Xylenes, total									
Zinc									

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

Table 9

Analytical Data Summary for MW-24

Constituents	10/7/2021	4/6/2022	7/8/2022	8/23/2022	9/29/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
Isosafrole					<10	<10			
Kepone					<10	<10			
Lead		<.5		<.5	<.5	<.5	<.5	<.5	<4.0
Mercury					<.2	<.2			
Methacrylonitrile					<10	<10			
Methapyrilene					<10	<10			
Methoxychlor					<.0653	<.0640			
Methyl Methacrylate					<2	<2			
Methyl Methanesulfonate					<10	<10			
Methylene Bromide		<1		<1	<1	<1	<1	<1	<1
Methylene Chloride		<5		<5	<5	<5	<5	<5	<5
Naphthalene					<5	<5			
Nickel		32.30	29.00	30.60	29.10	30.10	23.90	30.50	32.70
Nitrobenzene					<10	<10			
N-Nitrosodiethylamine					<10	<10			
N-Nitrosodimethylamine					<10	<10			
N-Nitrosodi-n-butylamine					<10	<10			
N-Nitrosodi-n-propylamine					<10	<10			
N-Nitrosodiphenylamine					<10	<10			
N-Nitrosomethylethylamine					<10	<10			
N-Nitrosopiperidine					<10	<10			
N-Nitrosopyrrolidine					<10	<10			
O,O,O-Triethyl Phosphorothioate					<10	<10			
o-Toluidine					<10	<10			
Parathion-Ethyl					<10	<10			
Parathion-Methyl					<10	<10			
PCB-1016					<.816	<.800			
PCB-1221					<.816	<.800			
PCB-1232					<.816	<.800			
PCB-1242					<.816	<.800			
PCB-1248					<.816	<.800			
PCB-1254					<.816	<.800			
PCB-1260					<.816	<.800			
Pentachlorobenzene					<10	<10			
Pentachloronitrobenzene					<10	<10			
Pentachlorophenol [2C]					<10	<10			
Phenacetin					<10	<10			
Phenanthrene					<10	<10			
Phenol					<10	<10			
Phorate					<10	<10			
Pronamide					<10	<10			
Propionitrile					<10	<10			
Pyrene					<10	<10			
Safrole					<10	<10			
Selenium		<5		<5	<5	<5	<5	<5	<4
Silver		<1		<1	<1	<1	<1	<1	<4
Styrene		<1		<1	<1	<1	<1	<1	<1
Sulfide					<1	<1			
Tetrachloroethene		<1		<1	<1	<1	<1	<1	<1
Thallium		<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
Thionazin					<10	<10			
Tin					<5	<5			
Toluene		<1		<1	<1	<1	<1	<1	<1
Total Suspended Solids	2.500	<1.500	4.500	<1.630	2.630	<1.630	45.000	4.750	
Toxaphene					<2.04	<2.00			
trans-1,2-Dichloroethene		<1		<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<5		<5	<5	<5	<5	<5	<1
trans-1,4-Dichloro-2-Butene		<10		<10	<10	<10	<10	<10	<5
Trichloroethene		<1		<1	<1	<1	<1	<1	<1
Trichlorofluoromethane		<4		<4	<4	<4	<4	<4	<1
Vanadium		<5		<5	<5	<5	<5	<5	<20
Vinyl Acetate		<10		<10	<10	<10	<10	<10	<5
Vinyl Chloride		<1		<1	<1	<1	<1	<1	<1
Xylenes, total		<3		<3	<3	<3	<3	<3	<2
Zinc		<20		<20	<20	<20	<20	<20	<20

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

Table 9

Analytical Data Summary for MW-24

Constituents	4/16/2025	10/27/2025
Isosafrole		
Kepon		
Lead	<1.0	<1.0
Mercury		
Methacrylonitrile		
Methapyrilene		
Methoxychlor		
Methyl Methacrylate		
Methyl Methanesulfonate		
Methylene Bromide	<1	<1
Methylene Chloride	<5	<5
Naphthalene		
Nickel	31.30	26.50
Nitrobenzene		
N-Nitrosodiethylamine		
N-Nitrosodimethylamine		
N-Nitrosodi-n-butylamine		
N-Nitrosodi-n-propylamine		
N-Nitrosodiphenylamine		
N-Nitrosomethylethylamine		
N-Nitrosopiperidine		
N-Nitrosopyrrolidine		
O,O,O-Triethyl Phosphorothioate		
o-Toluidine		
Parathion-Ethyl		
Parathion-Methyl		
PCB-1016		
PCB-1221		
PCB-1232		
PCB-1242		
PCB-1248		
PCB-1254		
PCB-1260		
Pentachlorobenzene		
Pentachloronitrobenzene		
Pentachlorophenol [2C]		
Phenacetin		
Phenanthrene		
Phenol		
Phorate		
Pronamide		
Propionitrile		
Pyrene		
Safrole		
Selenium	<2	<2
Silver	<5	<5
Styrene	<1	<1
Sulfide		
Tetrachloroethene	<1	<1
Thallium	<.5	<.5
Thionazin		
Tin		
Toluene	<1	<1
Total Suspended Solids		
Toxaphene		
trans-1,2-Dichloroethene	<1	<1
trans-1,3-Dichloropropene	<1	<1
trans-1,4-Dichloro-2-Butene	<5	<5
Trichloroethene	<1	<1
Trichlorofluoromethane	<1	<1
Vanadium	<2	<2
Vinyl Acetate	<5	<5
Vinyl Chloride	<1	<1
Xylenes, total	<2	<2
Zinc	<5	<5

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

Table 9**Analytical Data Summary for MW-27**

Constituents	Units	4/16/2025	10/27/2025
Antimony	ug/L	<1	<1
Arsenic	ug/L	<2	<2
Barium	ug/L	329	273
Beryllium	ug/L	<.5	<.5
Cadmium	ug/L	<.2	<.2
Chromium	ug/L	2.1	2.0
Cobalt	ug/L	<.5	<.5
Copper	ug/L	<5	<5
Lead	ug/L	<1	<1
Nickel	ug/L	<5	<5
Selenium	ug/L	<2	<2
Silver	ug/L	<5	<5
Thallium	ug/L	<.5	<.5
Vanadium	ug/L	<2	<2
Zinc	ug/L	<5	<5

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

Table 9**Analytical Data Summary for MW-28**

Constituents	Units	4/16/2025	10/27/2025
Antimony	ug/L	<1	<1
Arsenic	ug/L	<2	<2
Barium	ug/L	80.0	67.7
Beryllium	ug/L	<.5	<.5
Cadmium	ug/L	.2	<.2
Chromium	ug/L	1.9	1.6
Cobalt	ug/L	<.5	<.5
Copper	ug/L	<5	<5
Lead	ug/L	<1	<1
Nickel	ug/L	<5	<5
Selenium	ug/L	<2	<2
Silver	ug/L	<5	<5
Thallium	ug/L	<.5	<.5
Vanadium	ug/L	<2	<2
Zinc	ug/L	6.1	<5.0

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

Table 9**Analytical Data Summary for MW-29**

Constituents	Units	4/16/2025	10/27/2025
Antimony	ug/L	<1	<1
Arsenic	ug/L	<2	<2
Barium	ug/L	303	235
Beryllium	ug/L	<.5	<.5
Cadmium	ug/L	<.2	<.2
Chromium	ug/L	3.8	3.5
Cobalt	ug/L	<.5	<.5
Copper	ug/L	<5	<5
Lead	ug/L	<1	<1
Nickel	ug/L	<5	<5
Selenium	ug/L	2.4	2.7
Silver	ug/L	<5	<5
Thallium	ug/L	<.5	<.5
Vanadium	ug/L	<2	<2
Zinc	ug/L	<5	<5

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

Table 9

Analytical Data Summary for MW-36

Constituents	Units	8/21/2009	12/15/2009	2/18/2010	3/11/2010	5/27/2010	8/31/2010	2/16/2011	7/7/2011
1,1,1,2-Tetrachloroethane	ug/L	<1	<1	<2	<5	<4	<1	<1	<1
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1	<4	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<2	<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-Dichloroethene	ug/L	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene	ug/L								<1
1,2,3-Trichloropropane	ug/L	<1.0	<1.0	<2.0	<2.5	<1.0	<1.0	<1.0	<2.0
1,2,4,5-Tetrachlorobenzene	ug/L								<10
1,2,4-Trichlorobenzene	ug/L								<5
1,2-Dibromo-3-Chloropropane	ug/L	<.498	<.498	<.498	<.498	<.498	<.498	<.120	<10.000
1,2-Dibromoethane	ug/L	<.255	<.255	<.255	<.255	<.255	<.255	<.130	<10.000
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
1,3,5-Trinitrobenzene	ug/L								<10
1,3-Dichlorobenzene	ug/L								<1
1,3-Dichloropropane	ug/L								<1
1,3-Dinitrobenzene	ug/L								<10
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone	ug/L								<10
1,4-Phenylenediamine	ug/L								<10
1-Naphthylamine	ug/L								<10
2,2-Dichloropropane	ug/L								<4
2,3,4,6-Tetrachlorophenol	ug/L								<10
2,4,5-T [2C]	ug/L								<.24
2,4,5-TP [Silvex] [2C]	ug/L								<.24
2,4,5-Trichlorophenol	ug/L								<10
2,4,6-Trichlorophenol	ug/L								<10
2,4-D [2C]	ug/L								<.45
2,4-Dichlorophenol	ug/L								<10
2,4-Dimethylphenol	ug/L								<10
2,4-Dinitrophenol	ug/L								<20
2,4-Dinitrotoluene	ug/L								<10
2,6-Dichlorophenol	ug/L								<10
2,6-Dinitrotoluene	ug/L								<10
2-Acetylaminofluorene	ug/L								<10
2-Butanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	ug/L								<10
2-Chlorophenol	ug/L								<10
2-Hexanone	ug/L	<10	<10	<10	<10	<20	<10	<10	<10
2-Methylnaphthalene	ug/L								<10
2-Methylphenol	ug/L								<10
2-Naphthylamine	ug/L								<10
2-Nitroaniline	ug/L								<10
2-Nitrophenol	ug/L								<10
3,3-Dichlorobenzidine	ug/L								<10
3,3-Dimethylbenzidine	ug/L								<10
3/4-Methylphenol	ug/L								<10
3-Chloropropene	ug/L								<2
3-Methylcholanthrene	ug/L								<10
3-Nitroaniline	ug/L								<10
4,4'-DDD	ug/L								<.0320
4,4'-DDE	ug/L								<.0320
4,4'-DDT	ug/L								<.0320
4,6-Dinitro-2-methylphenol	ug/L								<10
4-Aminobiphenyl	ug/L								<10
4-Bromophenyl phenyl ether	ug/L								<10
4-Chloro-3-methylphenol	ug/L								<10
4-Chloroaniline	ug/L								<10
4-Chlorophenyl phenyl ether	ug/L								<10
4-Methyl-2-Pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline	ug/L								<10
4-Nitrophenol	ug/L								<10
5-Nitro-o-toluidine	ug/L								<10
7,12-Dimethylbenz [a] anthracene	ug/L								<10
Acenaphthene	ug/L								<10
Acenaphthylene	ug/L								<10
Acetone	ug/L	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L								<10000
Acetophenone	ug/L								<10
Acrolein	ug/L								<10
Acrylonitrile	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Aldrin	ug/L								<.0320
alpha-BHC	ug/L								<.0320
alpha-Chlordane	ug/L								<.0320
Anthracene	ug/L								<10

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

Table 9

Analytical Data Summary for MW-36

Constituents	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013	12/18/2013	4/22/2014	10/14/2014
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	<2	<1		<1		<1	<1
1,1-Dichloroethane	<1	<1	<1	<1		<1		<1	<1
1,1-Dichloroethene	<2	<1	<2	<2		<2		<2	<2
1,1-Dichloropropene			<1						
1,2,3-Trichloropropene	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0
1,2,4,5-Tetrachlorobenzene			<10						
1,2,4-Trichlorobenzene			<5						
1,2-Dibromo-3-Chloropropane	<.120	<.200	<.120	<.120		<.120		<.120	<.120
1,2-Dibromoethane	<.130	<.050	<.130	<.130		<.130		<.130	<.130
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
1,3,5-Trinitrobenzene			<10						
1,3-Dichlorobenzene			<1						
1,3-Dichloropropane			<1						
1,3-Dinitrobenzene			<10						
1,4-Dichlorobenzene	<1	<1	<1	<1		<1		<1	<1
1,4-Naphthoquinone			<10						
1,4-Phenylenediamine			<10						
1-Naphthylamine			<10						
2,2-Dichloropropane			<4						
2,3,4,6-Tetrachlorophenol			<10						
2,4,5-T [2C]			<.52						
2,4,5-TP [Silvex] [2C]			<.34						
2,4,5-Trichlorophenol			<10						
2,4,6-Trichlorophenol			<10						
2,4-D [2C]			<.55						
2,4-Dichlorophenol			<10						
2,4-Dimethylphenol			<10						
2,4-Dinitrophenol			<20						
2,4-Dinitrotoluene			<10						
2,6-Dichlorophenol			<10						
2,6-Dinitrotoluene			<10						
2-Acetylaminofluorene			<10						
2-Butanone	<10	<10	<10	<10		<10		<10	<10
2-Chloronaphthalene			<10						
2-Chlorophenol			<10						
2-Hexanone	<10	<10	<10	<10		<10		<10	<10
2-Methylnaphthalene			<10						
2-Methylphenol			<10						
2-Naphthylamine			<10						
2-Nitroaniline			<10						
2-Nitrophenol			<10						
3,3-Dichlorobenzidine			<10						
3,3-Dimethylbenzidine			<10						
3/4-Methylphenol			<10						
3-Chloropropene			<2						
3-Methylcholanthrene			<10						
3-Nitroaniline			<10						
4,4'-DDD			<.0320						
4,4'-DDE			<.0320						
4,4'-DDT			<.0320						
4,6-Dinitro-2-methylphenol			<10						
4-Aminobiphenyl			<10						
4-Bromophenyl phenyl ether			<10						
4-Chloro-3-methylphenol			<10						
4-Chloroaniline			<10						
4-Chlorophenyl phenyl ether			<10						
4-Methyl-2-Pentanone	<10	<10	<10	<10		<10		<10	<10
4-Nitroaniline			<10						
4-Nitrophenol			<10						
5-Nitro-o-toluidine			<10						
7,12-Dimethylbenz [a] anthracene			<10						
Acenaphthene			<10						
Acenaphthylene			<10						
Acetone	<10.00	<10.00	<10.00	<10.00		<10.00		<10.00	<10.00
Acetonitrile			<10000						
Acetophenone			<10						
Acrolein			<10						
Acrylonitrile	<10	<5	<10	<10		<10		<10	<10
Aldrin			<.0320						
alpha-BHC			<.0320						
alpha-Chlordane			<.032						
Anthracene			<10						

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

Table 9

Analytical Data Summary for MW-36

Constituents	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/26/2018	3/18/2019
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-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene					<1				
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene					<10				
1,2,4-Trichlorobenzene					<5				
1,2-Dibromo-3-Chloropropane	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<1.200
1,2-Dibromoethane	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.340
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
1,3,5-Trinitrobenzene					<10				
1,3-Dichlorobenzene					<1				
1,3-Dichloropropane					<1				
1,3-Dinitrobenzene					<10				
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone					<10				
1,4-Phenylenediamine					<10				
1-Naphthylamine					<10				
2,2-Dichloropropane					<4				
2,3,4,6-Tetrachlorophenol					<10				
2,4,5-T [2C]					<1.15				
2,4,5-TP [Silvex] [2C]					<1.15				
2,4,5-Trichlorophenol					<10				
2,4,6-Trichlorophenol					<10				
2,4-D [2C]					<1.15				
2,4-Dichlorophenol					<10				
2,4-Dimethylphenol					<10				
2,4-Dinitrophenol					<20				
2,4-Dinitrotoluene					<10				
2,6-Dichlorophenol					<10				
2,6-Dinitrotoluene					<10				
2-Acetylaminofluorene					<10				
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene					<10				
2-Chlorophenol					<10				
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene					<10				
2-Methylphenol					<10				
2-Naphthylamine					<10				
2-Nitroaniline					<10				
2-Nitrophenol					<10				
3,3-Dichlorobenzidine					<50				
3,3-Dimethylbenzidine					<10				
3/4-Methylphenol					<10				
3-Chloropropene					<2				
3-Methylcholanthrene					<10				
3-Nitroaniline					<10				
4,4'-DDD					<.0320				
4,4'-DDE					<.0320				
4,4'-DDT					<.0320				
4,6-Dinitro-2-methylphenol					<10				
4-Aminobiphenyl					<10				
4-Bromophenyl phenyl ether					<10				
4-Chloro-3-methylphenol					<10				
4-Chloroaniline					<10				
4-Chlorophenyl phenyl ether					<10				
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline					<10				
4-Nitrophenol					<10				
5-Nitro-o-toluidine					<10				
7,12-Dimethylbenz [a] anthracene					<10				
Acenaphthene					<10				
Acenaphthylene					<10				
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile					<10000				
Acetophenone					<10				
Acrolein					<10				
Acrylonitrile	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aldrin					<.0320				
alpha-BHC					<.0320				
alpha-Chlordane									
Anthracene					<10				

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

Table 9

Analytical Data Summary for MW-36

Constituents	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023
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-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene						<1			
1,2,3-Trichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene						<10			
1,2,4-Trichlorobenzene						<5			
1,2-Dibromo-3-Chloropropane	<1.200	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.340	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
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
1,3,5-Trinitrobenzene						<10			
1,3-Dichlorobenzene						<1			
1,3-Dichloropropane						<1			
1,3-Dinitrobenzene						<10			
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone						<10			
1,4-Phenylenediamine						<10			
1-Naphthylamine						<10			
2,2-Dichloropropane						<4			
2,3,4,6-Tetrachlorophenol						<10			
2,4,5-T [2C]						<1.03			
2,4,5-TP [Silvex] [2C]						<1.03			
2,4,5-Trichlorophenol						<10			
2,4,6-Trichlorophenol						<10			
2,4-D [2C]						<1.03			
2,4-Dichlorophenol						<10			
2,4-Dimethylphenol						<10			
2,4-Dinitrophenol						<20			
2,4-Dinitrotoluene						<10			
2,6-Dichlorophenol						<10			
2,6-Dinitrotoluene						<10			
2-Acetylaminofluorene						<10			
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene						<10			
2-Chlorophenol						<10			
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene						<10			
2-Methylphenol						<10			
2-Naphthylamine						<10			
2-Nitroaniline						<10			
2-Nitrophenol						<10			
3,3-Dichlorobenzidine						<10			
3,3-Dimethylbenzidine						<10			
3/4-Methylphenol						<10			
3-Chloropropene						<2			
3-Methylcholanthrene						<10			
3-Nitroaniline						<10			
4,4'-DDD						<.0696			
4,4'-DDE						<.0696			
4,4'-DDT						<.0696			
4,6-Dinitro-2-methylphenol						<10			
4-Aminobiphenyl						<10			
4-Bromophenyl phenyl ether						<10			
4-Chloro-3-methylphenol						<10			
4-Chloroaniline						<10			
4-Chlorophenyl phenyl ether						<10			
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline						<10			
4-Nitrophenol						<10			
5-Nitro-o-toluidine						<10			
7,12-Dimethylbenz [a] anthracene						<10			
Acenaphthene						<10			
Acenaphthylene						<10			
Acetone	<10.00	<10.00	<10.00	<4.08	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile						<10000			
Acetophenone						<10			
Acrolein						<10			
Acrylonitrile	<10	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin						<.0696			
alpha-BHC						<.0696			
alpha-Chlordane									
Anthracene						<10			

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

Table 9

Analytical Data Summary for MW-36

Constituents	5/29/2024	10/15/2024	4/16/2025	10/27/2025
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-Dichloroethene	<2	<1	<1	<1
1,1-Dichloropropene				
1,2,3-Trichloropropene	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene				
1,2,4-Trichlorobenzene				
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1
1,3,5-Trinitrobenzene				
1,3-Dichlorobenzene				
1,3-Dichloropropane				
1,3-Dinitrobenzene				
1,4-Dichlorobenzene	<1	<1	<1	<1
1,4-Naphthoquinone				
1,4-Phenylenediamine				
1-Naphthylamine				
2,2-Dichloropropane				
2,3,4,6-Tetrachlorophenol				
2,4,5-T [2C]				
2,4,5-TP [Silvex] [2C]				
2,4,5-Trichlorophenol				
2,4,6-Trichlorophenol				
2,4-D [2C]				
2,4-Dichlorophenol				
2,4-Dimethylphenol				
2,4-Dinitrophenol				
2,4-Dinitrotoluene				
2,6-Dichlorophenol				
2,6-Dinitrotoluene				
2-Acetylaminofluorene				
2-Butanone	<10	<10	<10	<10
2-Chloronaphthalene				
2-Chlorophenol				
2-Hexanone	<10	<5	<5	<5
2-Methylnaphthalene				
2-Methylphenol				
2-Naphthylamine				
2-Nitroaniline				
2-Nitrophenol				
3,3-Dichlorobenzidine				
3,3-Dimethylbenzidine				
3/4-Methylphenol				
3-Chloropropene				
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	<10	<5	<5	<5
4-Nitroaniline				
4-Nitrophenol				
5-Nitro-o-toluidine				
7,12-Dimethylbenz [a] anthracene				
Acenaphthene				
Acenaphthylene				
Acetone	<10.00	<10.00	<10.00	<10.00
Acetonitrile				
Acetophenone				
Acrolein				
Acrylonitrile	<5	<5	<5	<5
Aldrin				
alpha-BHC				
alpha-Chlordane				
Anthracene				

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

Table 9

Analytical Data Summary for MW-36

Constituents	Units	8/21/2009	12/15/2009	2/18/2010	3/11/2010	5/27/2010	8/31/2010	2/16/2011	7/7/2011
Antimony	ug/L	<6.00	<6.00	<6.00	<6.00	<6.00	7.08	<6.00	<6.00
Arsenic	ug/L	6.60	7.63	5.57 *	2.11	2.50	3.29	2.49 *	1.66
Barium	ug/L	2250	584	530 *	347	648	3150	1036 *	489
Benzene	ug/L	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene	ug/L								<10
Benzo [a] pyrene	ug/L								<10
Benzo [b] fluoranthene	ug/L								<10
Benzo [g,h,i] perylene	ug/L								<10
Benzo [k] fluoranthene	ug/L								<10
Benzyl alcohol	ug/L								<10
Beryllium	ug/L	25.500	<15.000	15.400 *	2.970	4.020	30.900	9.795 *	4.670
beta-BHC	ug/L								<.0320
Bis[2-chloroethoxy]methane	ug/L								<10
Bis[2-chloroethyl]ether	ug/L								<10
Bis[2-chloroisopropyl]ether	ug/L								<10
Bis[2-ethylhexyl]phthalate	ug/L								<10
Bromochloromethane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	ug/L	<1	<5	<1	<5	<4	<1	<1	<1
Bromoform	ug/L	<5	<20	<5	<5	<20	<5	<5	<5
Bromomethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Butyl benzyl phthalate	ug/L								<10
Cadmium	ug/L	8.140	4.080	5.870 *	1.940	3.760	9.380	9.430 *	4.630
Carbon Disulfide	ug/L	<1.0	<5.0	<1.0	<1.0	<4.0	<4.0	<1.0	<1.0
Carbon Tetrachloride	ug/L	<2	<5	<2	<10	<4	<5	<2	<2
Chlordane	ug/L								<2.00
Chlorobenzene	ug/L	<1	<1	<1	<5	<1	<1	<1	<1
Chlorobenzilate	ug/L								<10
Chlorodibromomethane	ug/L	<5	<5	<5	<5	<5	<10	<5	<5
Chloroethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene	ug/L								<1
Chromium	ug/L	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Chrysene	ug/L								<10
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5	<10	<5	<5
Cobalt	ug/L	332.000	97.200	96.200 *	35.000	65.100	164.000	45.450 *	78.000
Copper	ug/L	50.90	30.60	35.30 *	<20.00	<20.00	47.80	26.55 *	21.00
Cyanide	mg/L								<.01
delta-BHC	ug/L								<.0320
Diallate [cis or trans]	ug/L								<10
Dibenz [a,h] anthracene	ug/L								<10
Dibenzofuran	ug/L								<10
Dichlorodifluoromethane	ug/L								<3
Dieldrin	ug/L								<.0320
Diethyl phthalate	ug/L								<10
Dimethoate	ug/L								<10
Dimethyl phthalate	ug/L								<10
Dimethylaminoazobenzene	ug/L								<10
Di-n-butyl phthalate	ug/L								<10
Di-n-octyl phthalate	ug/L								<10
Dinoseb	ug/L								<10
Diphenylamine	ug/L								<10
Disulfoton	ug/L								<10
Endosulfan I	ug/L								<.0320
Endosulfan II	ug/L								<.0320
Endosulfan sulfate	ug/L								<.0320
Endrin	ug/L								<.0320
Endrin aldehyde	ug/L								<.0320
Ethyl Methacrylate	ug/L								<2
Ethyl Methanesulfonate	ug/L								<10
Ethylbenzene	ug/L	<1	<2	<1	<1	<1	<1	<1	<1
Famphur	ug/L								<20
Fluoranthene	ug/L								<10
Fluorene	ug/L								<10
gamma-BHC [Lindane]	ug/L								<.0320
gamma-Chlordane	ug/L								<.0320
Heptachlor	ug/L								<.0320
Heptachlor Epoxide	ug/L								<.0320
Hexachlorobenzene	ug/L								<10
Hexachlorobutadiene	ug/L								<10
Hexachlorocyclopentadiene	ug/L								<10
Hexachloroethane	ug/L								<10
Hexachloropropene	ug/L								<10
Indeno [1,2,3-cd] pyrene	ug/L								<10
Iodomethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<20
Isobutanol	ug/L								<10000

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

Table 9

Analytical Data Summary for MW-36

Constituents	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013	12/18/2013	4/22/2014	10/14/2014
Antimony	<6.00	<6.00	<12.00	<6.00		<1.00		<6.00	<6.00
Arsenic	<1.00	138.00	5.19	2.03		4.14		1.88	<1.00
Barium	264	3690	742	325		407		299	659
Benzene	<.50	<.50	<.50	<.50		<.01		<1.00	<.50
Benzo [a] anthracene			<10						
Benzo [a] pyrene			<10						
Benzo [b] fluoranthene			<10						
Benzo [g,h,i] perylene			<10						
Benzo [k] fluoranthene			<10						
Benzyl alcohol			<10						
Beryllium	<1.000	42.000	13.200	10.100		17.000		14.200	3.360
beta-BHC			<.0320						
Bis[2-chloroethoxy]methane			<10						
Bis[2-chloroethyl]ether			<10						
Bis[2-chloroisopropyl]ether			<10						
Bis[2-ethylhexyl]phthalate			<10						
Bromochloromethane	<5	<5	<5	<5		<5		<5	<5
Bromodichloromethane	<1	<1	<2	<1		<1		<1	<1
Bromoform	<5	<5	<5	<5		<5		<5	<5
Bromomethane	<20	<50	<5	<4		<4		<4	<4
Butyl benzyl phthalate			<10						
Cadmium	1.530	27.800	6.200	2.960		4.580		4.630	1.860
Carbon Disulfide	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0
Carbon Tetrachloride	<2	<2	<2	<2		<2		<2	<2
Chlordane			<2.00						
Chlorobenzene	<1	<1	<1	<1		<1		<1	<1
Chlorobenzilate			<10						
Chlorodibromomethane	<5	<5	<5	<5		<5		<5	<5
Chloroethane	<4	<4	<4	<4		<4		<4	<4
Chloroform	<1	<1	<2	<1		<1		<1	<1
Chloromethane	<3	<3	<3	<3		<3		<3	<3
Chloroprene			<1						
Chromium	<20.00	176.00	<20.00	<20.00		<10.00		<10.00	<20.00
Chrysene			<10						
cis-1,2-Dichloroethene	<1	<1	<1	<1		<1		<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5		<5		<5	<5
Cobalt	10.800	652.000	31.000	41.300		70.200		47.200	67.500
Copper	<20.00	300.00	26.20	23.50		26.70		24.60	<10.00
Cyanide			<.01						
delta-BHC			<.0320						
Diallate [cis or trans]			<10						
Dibenz [a,h] anthracene			<10						
Dibenzofuran			<10						
Dichlorodifluoromethane			<3						
Dieldrin			<.0320						
Diethyl phthalate			<10						
Dimethoate			<10						
Dimethyl phthalate			<10						
Dimethylaminoazobenzene			<10						
Di-n-butyl phthalate			<10						
Di-n-octyl phthalate			<10						
Dinoseb			<10						
Diphenylamine			<10						
Disulfoton			<10						
Endosulfan I			<.0320						
Endosulfan II			<.0320						
Endosulfan sulfate			<.0320						
Endrin			<.0320						
Endrin aldehyde			<.0320						
Ethyl Methacrylate			<2						
Ethyl Methanesulfonate			<10						
Ethylbenzene	<1	<1	<1	<1		<1		<1	<1
Famphur			<20						
Fluoranthene			<10						
Fluorene			<10						
gamma-BHC [Lindane]			<.0320						
gamma-Chlordane			<.032						
Heptachlor			<.0320						
Heptachlor Epoxide			<.0320						
Hexachlorobenzene			<10						
Hexachlorobutadiene			<10						
Hexachlorocyclopentadiene			<10						
Hexachloroethane			<10						
Hexachloropropene			<10						
Indeno [1,2,3-cd] pyrene			<10						
Iodomethane	<20	<10	<10	<10		<10		<10	<10
Isobutanol			<10000						

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

Table 9

Analytical Data Summary for MW-36

Constituents	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/26/2018	3/18/2019
Antimony	<1.00 *	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<1.00
Arsenic	2.74 *	<2.00	<2.00	<2.00	<2.00	<1.00	5.23	<2.00	<1.50 *
Barium	1011 *	280	335	486	337	366	306	130	407 *
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene					<10				
Benzo [a] pyrene					<10				
Benzo [b] fluoranthene					<10				
Benzo [g,h,i] perylene					<10				
Benzo [k] fluoranthene					<10				
Benzyl alcohol					<1				
Beryllium	5.590 *	1.290	<1.000	2.200	<1.000	<1.000	<1.000	<1.000	1.019 *
beta-BHC					<.0320				
Bis[2-chloroethoxy]methane					<10				
Bis[2-chloroethyl]ether					<10				
Bis[2-chloroisopropyl]ether					<10				
Bis[2-ethylhexyl]phthalate					<5				
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Butyl benzyl phthalate					<10				
Cadmium	3.315 *	.676	<1.000	.973	<1.000	<1.000	<1.000	<.500	<1.000 *
Carbon Disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane					<2.00				
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate					<10				
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	<1	<1	<1	<1	<1	<1	<3	<3	<3
Chloromethane	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene					<1				
Chromium	<3.00 *	<5.00	<5.00	<2.00	<5.00	<5.00	8.38	<5.00	<2.00 *
Chrysene					<10				
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	92.050 *	6.710	4.220	9.530	1.400	1.140	8.210	<1.000	13.900 *
Copper	20.85 *	5.38	3.05	<4.00	<5.00	<5.00	6.11	<5.00	<3.50 *
Cyanide					<.01				
delta-BHC					<.0320				
Diallate [cis or trans]					<10				
Dibenz [a,h] anthracene					<10				
Dibenzofuran					<10				
Dichlorodifluoromethane					<3				
Dieldrin					<.0320				
Diethyl phthalate					<10				
Dimethoate					<10				
Dimethyl phthalate					<10				
Dimethylaminoazobenzene					<10				
Di-n-butyl phthalate					<1				
Di-n-octyl phthalate					<20				
Dinoseb					<10				
Diphenylamine					<10				
Disulfoton					<10				
Endosulfan I					<.0320				
Endosulfan II					<.0320				
Endosulfan sulfate					<.0320				
Endrin					<.0320				
Endrin aldehyde					<.0320				
Ethyl Methacrylate					<2				
Ethyl Methanesulfonate					<10				
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur					<20				
Fluoranthene					<10				
Fluorene					<10				
gamma-BHC [Lindane]					<.0320				
gamma-Chlordane									
Heptachlor					<.0320				
Heptachlor Epoxide					<.0320				
Hexachlorobenzene					<10				
Hexachlorobutadiene					<10				
Hexachlorocyclopentadiene					<20				
Hexachloroethane					<10				
Hexachloropropene					<10				
Indeno [1,2,3-cd] pyrene					<10				
Iodomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10
Isobutanol					<10000				

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

Table 9

Analytical Data Summary for MW-36

Constituents	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023
Antimony	<1.00	<1.00	1.83	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Arsenic	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00
Barium	279	291 *	251	198	162 *	134	126	127 *	135
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene						<10			
Benzo [a] pyrene						<10			
Benzo [b] fluoranthene						<10			
Benzo [g,h,i] perylene						<10			
Benzo [k] fluoranthene						<10			
Benzyl alcohol						<10			
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.906
beta-BHC						<.0696			
Bis[2-chloroethoxy]methane						<10			
Bis[2-chloroethyl]ether						<10			
Bis[2-chloroisopropyl]ether						<10			
Bis[2-ethylhexyl]phthalate						<10			
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Butyl benzyl phthalate						<10			
Cadmium	.208	.138 *	<1.00	.242	.145 *	.240	.264	.697 *	.656
Carbon Disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane						<2.17			
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate						<10			
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene						<1			
Chromium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<4.75 *	<2.57
Chrysene						<10			
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	3.850	.716 *	<5.00	1.330	1.160 *	2.310	2.530	1.585 *	3.870
Copper	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	8.78	<5.00	<3.88
Cyanide						<.01			
delta-BHC						<.0696			
Diallate [cis or trans]						<10			
Dibenz [a,h] anthracene						<10			
Dibenzofuran						<10			
Dichlorodifluoromethane						<3			
Dieldrin						<.0696			
Diethyl phthalate						<10			
Dimethoate						<10			
Dimethyl phthalate						<10			
Dimethylaminoazobenzene						<10			
Di-n-butyl phthalate						<10			
Di-n-octyl phthalate						<20			
Dinoseb						<10			
Diphenylamine						<10			
Disulfoton						<10			
Endosulfan I						<.0696			
Endosulfan II						<.0696			
Endosulfan sulfate						<.0696			
Endrin						<.0682			
Endrin aldehyde						<.0696			
Ethyl Methacrylate						<2			
Ethyl Methanesulfonate						<10			
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur						<10			
Fluoranthene						<10			
Fluorene						<10			
gamma-BHC [Lindane]						<.0696			
gamma-Chlordane									
Heptachlor						<.0696			
Heptachlor Epoxide						<.0696			
Hexachlorobenzene						<10			
Hexachlorobutadiene						<10			
Hexachlorocyclopentadiene						<10			
Hexachloroethane						<10			
Hexachloropropene						<10			
Indeno [1,2,3-cd] pyrene						<10			
Iodomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10
Isobutanol						<10000			

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

Table 9

Analytical Data Summary for MW-36

Constituents	5/29/2024	10/15/2024	4/16/2025	10/27/2025
Antimony	<2.00	<2.00	<1.00	<1.00
Arsenic	<2.00	<4.00	<2.00	4.50
Barium	201	146	134	251
Benzene	<.50	<1.00	<1.00	<1.00
Benzo [a] anthracene				
Benzo [a] pyrene				
Benzo [b] fluoranthene				
Benzo [g,h,i] perylene				
Benzo [k] fluoranthene				
Benzyl alcohol				
Beryllium	4.150	<4.000	<.500	.500
beta-BHC				
Bis[2-chloroethoxy]methane				
Bis[2-chloroethyl]ether				
Bis[2-chloroisopropyl]ether				
Bis[2-ethylhexyl]phthalate				
Bromochloromethane	<5	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1
Bromoform	<5	<1	<1	<1
Bromomethane	<4	<1	<1	<1
Butyl benzyl phthalate				
Cadmium	2.530	<.800	1.000	1.100
Carbon Disulfide	<1.0	<1.0	<1.0	1.1
Carbon Tetrachloride	<2	<1	<1	<1
Chlordane				
Chlorobenzene	<1	<1	<1	<1
Chlorobenzilate				
Chlorodibromomethane	<5	<1	<1	<1
Chloroethane	<4	<1	<1	<1
Chloroform	<3	<1	<1	<1
Chloromethane	<3	<1	<1	<1
Chloroprene				
Chromium	44.90	<8.00	1.30	6.40
Chrysene				
cis-1,2-Dichloroethene	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<1	<1	<1
Cobalt	24.600	.800	1.200	13.300
Copper	12.10	<4.00	<5.00	6.10
Cyanide				
delta-BHC				
Diallate [cis or trans]				
Dibenz [a,h] anthracene				
Dibenzofuran				
Dichlorodifluoromethane				
Dieldrin				
Diethyl phthalate				
Dimethoate				
Dimethyl phthalate				
Dimethylaminoazobenzene				
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
Famphur				
Fluoranthene				
Fluorene				
gamma-BHC [Lindane]				
gamma-Chlordane				
Heptachlor				
Heptachlor Epoxide				
Hexachlorobenzene				
Hexachlorobutadiene				
Hexachlorocyclopentadiene				
Hexachloroethane				
Hexachloropropene				
Indeno [1,2,3-cd] pyrene				
Iodomethane	<10	<1	<1	<1
Isobutanol				

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

Table 9

Analytical Data Summary for MW-36

Constituents	Units	8/21/2009	12/15/2009	2/18/2010	3/11/2010	5/27/2010	8/31/2010	2/16/2011	7/7/2011
Isodrin	ug/L								<10
Isophorone	ug/L								<10
Isosafrole	ug/L								<10
Kepone	ug/L								<10
Lead	ug/L	4.940	26.600	26.200 *	24.300	20.300	27.100	12.900 *	18.900
MP-Xylene	ug/L								
Mercury	ug/L								<.200
Methacrylonitrile	ug/L								<1
Methapyrilene	ug/L								<10
Methoxychlor	ug/L								<.0320
Methyl Methacrylate	ug/L								<2
Methyl Methanesulfonate	ug/L								<10
Methylene Bromide	ug/L	<1	<1	<1	<50	<1	<1	<1	<1
Methylene Chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L								<5
Nickel	ug/L	199.00	78.10	95.40 *	<50.00	52.70	188.00	72.95 *	77.50
Nitrobenzene	ug/L								<10
N-Nitrosodiethylamine	ug/L								<10
N-Nitrosodimethylamine	ug/L								<10
N-Nitrosodi-n-butylamine	ug/L								<10
N-Nitrosodi-n-propylamine	ug/L								<10
N-Nitrosodiphenylamine	ug/L								<10
N-Nitrosomethylethylamine	ug/L								<10
N-Nitrosopiperidine	ug/L								<10
N-Nitrosopyrrolidine	ug/L								<10
O,O,O-Triethyl Phosphorothioate	ug/L								<10
o-Toluidine	ug/L								<10
o-Xylene	ug/L								
Parathion-Ethyl	ug/L								<10
Parathion-Methyl	ug/L								<10
PCB-1016	ug/L								<.800
PCB-1221	ug/L								<.800
PCB-1232	ug/L								<.800
PCB-1242	ug/L								<.800
PCB-1248	ug/L								<.800
PCB-1254	ug/L								<.800
PCB-1260	ug/L								<.800
Pentachlorobenzene	ug/L								<10
Pentachloronitrobenzene	ug/L								<10
Pentachlorophenol [2C]	ug/L								<10
Phenacetin	ug/L								<10
Phenanthrene	ug/L								<10
Phenol	ug/L								<10
Phorate	ug/L								<10
Pronamide	ug/L								<10
Propionitrile	ug/L								<10
Pyrene	ug/L								<10
Safrole	ug/L								<10
Selenium	ug/L	<5.00	5.44	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Styrene	ug/L	<1	<5	<2	<5	<4	<4	<1	<1
Sulfide	mg/L								<.12
Tetrachloroethene	ug/L	<1	<1	<2	<5	<1	<1	<1	<1
Thallium	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin	ug/L								<10
Tin	ug/L								<100
Toluene	ug/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	mg/L								
Toxaphene	ug/L								<2.00
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<5	<20	<5	<5	<5	<10	<5	<10
trans-1,4-Dichloro-2-Butene	ug/L	<10	<10	<10	<50	<10	<10	<10	<10
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	ug/L	132.00	82.50	77.10 *	<50.00	<50.00	78.70	70.35 *	<50.00
Vinyl Acetate	ug/L	<2	<2	<2	<2	<2	<2	<4	<2
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<3.00	<9.00	<3.00	<7.50	<12.00	<3.00	<3.00	<3.00
Zinc	ug/L	295.0	179.0	170.0 *	71.9	49.9	203.0	83.0 *	66.6

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

Table 9

Analytical Data Summary for MW-36

Constituents	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013	12/18/2013	4/22/2014	10/14/2014
Isodrin			<10						
Isophorone			<10						
Isosafrole			<10						
Kepone			<10						
Lead	11.000	411.000	13.600	16.200		17.800		15.800	37.500
MP-Xylene			<2	<2					
Mercury			<.267						
Methacrylonitrile			<2						
Methapyrilene			<10						
Methoxychlor			<.0320						
Methyl Methacrylate			<2						
Methyl Methanesulfonate			<10						
Methylene Bromide	<1	<1	<1	<1		<1		<1	<1
Methylene Chloride	<5	<5	<5	<5		<5		<5	<5
Naphthalene			<5						
Nickel	<50.00	744.00	54.70	68.80		71.20		58.60	<10.00
Nitrobenzene			<10						
N-Nitrosodiethylamine			<10						
N-Nitrosodimethylamine			<10						
N-Nitrosodi-n-butylamine			<10						
N-Nitrosodi-n-propylamine			<10						
N-Nitrosodiphenylamine			<10						
N-Nitrosomethylethylamine			<10						
N-Nitrosopiperidine			<10						
N-Nitrosopyrrolidine			<10						
O,O,O-Triethyl Phosphorothioate			<10						
o-Toluidine			<10						
o-Xylene			<1	<1					
Parathion-Ethyl			<10						
Parathion-Methyl			<10						
PCB-1016			<.800						
PCB-1221			<.800						
PCB-1232			<.800						
PCB-1242			<.800						
PCB-1248			<.800						
PCB-1254			<.800						
PCB-1260			.965	<.800		<.842	<.842	<.816	<.816
Pentachlorobenzene			<10						
Pentachloronitrobenzene			<10						
Pentachlorophenol [2C]			<10						
Phenacetin			<10						
Phenanthrene			<10						
Phenol			<10						
Phorate			<10						
Pronamide			<10						
Propionitrile			<10						
Pyrene			<10						
Safrole			<10						
Selenium	<5.00	13.20	5.41	<5.00		5.17		<1.00	<5.00
Silver	<20.0	<20.0	<20.0	<20.0		<20.0		<20.0	<20.0
Styrene	<1	<1	<1	<1		<1		<1	<1
Sulfide			<.23		<1.00				
Tetrachloroethene	<1	<1	<1	<1		<1		<1	<1
Thallium	<2.0	3.4	<2.0	<2.0		<2.0		<2.0	<2.0
Thionazin			<10						
Tin			<100						
Toluene	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00
Total Suspended Solids								11000.000	1690.000
Toxaphene			<2.00						
trans-1,2-Dichloroethene	<1	<1	<1	<1		<1		<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5		<5		<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10		<10		<10	<10
Trichloroethene	<1	<1	<1	<1		<1		<1	<1
Trichlorofluoromethane	<4	<4	<4	<4		<4		<4	<4
Vanadium	<50.00	889.00	96.70	88.60		69.10		110.00	<10.00
Vinyl Acetate	<2	<5	<2	<2		<2		<2	<10
Vinyl Chloride	<1	<1	<1	<1		<1		<1	<1
Xylenes, total	<3.00	<3.00	<3.00	<3.00		<3.00		<3.00	<3.00
Zinc	<20.0	1100.0	66.0	136.0		220.0		<20.0	35.4

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

Table 9

Analytical Data Summary for MW-36

Constituents	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/26/2018	3/18/2019
Isodrin					<10				
Isophorone					<10				
Isosafrole					<10				
Kepone					<10				
Lead	33.050 *	6.710	4.260	8.860	2.090	1.540	6.550	<1.000	7.505 *
MP-Xylene									
Mercury					<.200				
Methacrylonitrile					<10				
Methapyrilene					<10				
Methoxychlor					<.0320				
Methyl Methacrylate					<2				
Methyl Methanesulfonate					<10				
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5	<5	<5	<1	<5	<5	<5	<5	<5
Naphthalene					<5				
Nickel	62.60 *	9.43	6.39	22.50	<2.00	<3.00	10.70	<5.00	4.11 *
Nitrobenzene					<10				
N-Nitrosodiethylamine					<10				
N-Nitrosodimethylamine					<10				
N-Nitrosodi-n-butylamine					<10				
N-Nitrosodi-n-propylamine					<10				
N-Nitrosodiphenylamine					<10				
N-Nitrosomethylethylamine					<10				
N-Nitrosopiperidine					<10				
N-Nitrosopyrrolidine					<10				
O,O,O-Triethyl Phosphorothioate					<10				
o-Toluidine					<10				
o-Xylene									
Parathion-Ethyl					<10				
Parathion-Methyl					<10				
PCB-1016					<.816				
PCB-1221					<.816				
PCB-1232					<.816				
PCB-1242					<.816				
PCB-1248					<.816				
PCB-1254					<.816				
PCB-1260	<.825	<.808	<.833	<.870	<.816	<.816			
Pentachlorobenzene					<10				
Pentachloronitrobenzene					<10				
Pentachlorophenol [2C]					<10				
Phenacetin					<10				
Phenanthrene					<10				
Phenol					<10				
Phorate					<10				
Pronamide					<10				
Propionitrile					<10				
Pyrene					<10				
Safrole					<10				
Selenium	<5.00	<5.00	<5.00	<3.00	<3.00	<3.00	3.26	<2.00	<2.50 *
Silver	<1.0 *	<1.0	<1.0	<1.0	<1.0	<1.0	<.5	<1.0	<1.0
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide					<1.00				
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<1.0 *	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0
Thionazin					<10				
Tin					<5				
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	7530.000 *	313.000	219.000	1310.000	37.100	61.800	76.000	6.750	742.000 *
Toxaphene					<2.00				
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	58.55 *	19.00	11.50	25.40	<4.00	<3.00	23.10	<2.00	12.75 *
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Zinc	70.9 *	13.5	12.2	19.9	<20.0	<20.0	21.9	<20.0	<20.0 *

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

Table 9

Analytical Data Summary for MW-36

Constituents	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023
Isodrin						<10			
Isophorone						<10			
Isosafrole						<10			
Kepone						<10			
Lead	3.610	<.500	<1.000	<.500	<.500	<.457	<.500	<.386 *	2.150
MP-Xylene									
Mercury						<.200			
Methacrylonitrile						<10			
Methapyrilene						<10			
Methoxychlor						<.0696			
Methyl Methacrylate						<2			
Methyl Methanesulfonate						<10			
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5	<8 *	<5	<5	<5	<5	<5	<5	<5
Naphthalene						<5			
Nickel	<3.00	<3.00 *	<5.00	<4.15	<4.50 *	6.33	5.35	8.07 *	18.30
Nitrobenzene						<10			
N-Nitrosodiethylamine						<10			
N-Nitrosodimethylamine						<10			
N-Nitrosodi-n-butylamine						<10			
N-Nitrosodi-n-propylamine						<10			
N-Nitrosodiphenylamine						<10			
N-Nitrosomethylethylamine						<10			
N-Nitrosopiperidine						<10			
N-Nitrosopyrrolidine						<10			
O,O,O-Triethyl Phosphorothioate						<10			
o-Toluidine						<10			
o-Xylene									
Parathion-Ethyl						<10			
Parathion-Methyl						<10			
PCB-1016						<.870			
PCB-1221						<.870			
PCB-1232						<.870			
PCB-1242						<.870			
PCB-1248						<.870			
PCB-1254						<.870			
PCB-1260						<.870			
Pentachlorobenzene						<10			
Pentachloronitrobenzene						<10			
Pentachlorophenol [2C]						<10			
Phenacetin						<10			
Phenanthrene						<10			
Phenol						<10			
Phorate						<10			
Pronamide						<10			
Propionitrile						<10			
Pyrene						<10			
Safrole						<10			
Selenium	<2.00	<3.00 *	<2.00	<2.17	<2.27 *	<1.95	<1.31	<2.02 *	<1.99
Silver	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide						<1.00			
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Thionazin						<10			
Tin						<5			
Toluene	<1.00	<1.00	<1.00	<.78	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	110.000	6.625 *	<1.000	<1.750	<1.378 *	<1.000	<1.130	5.380 *	468.000
Toxaphene						<2.17			
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<5.00	<2.00 *	<2.00	<5.00	<5.00	<1.24	<5.00	<5.00	10.10
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.00	<3.00	<3.00	<1.49	<3.00	<3.00	<3.00	<3.00	<3.00
Zinc	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<15.1

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

Table 9

Analytical Data Summary for MW-36

Constituents	5/29/2024	10/15/2024	4/16/2025	10/27/2025
Isodrin				
Isophorone				
Isosafrole				
Kepone				
Lead	6.530	<4.000	<1.000	<1.000
MP-Xylene				
Mercury				
Methacrylonitrile				
Methapyrilene				
Methoxychlor				
Methyl Methacrylate				
Methyl Methanesulfonate				
Methylene Bromide	<1	<1	<1	<1
Methylene Chloride	<5	<5	<5	<5
Naphthalene				
Nickel	122.00	6.60	6.20	13.70
Nitrobenzene				
N-Nitrosodiethylamine				
N-Nitrosodimethylamine				
N-Nitrosodi-n-butylamine				
N-Nitrosodi-n-propylamine				
N-Nitrosodiphenylamine				
N-Nitrosomethylethylamine				
N-Nitrosopiperidine				
N-Nitrosopyrrolidine				
O,O,O-Triethyl Phosphorothioate				
o-Toluidine				
o-Xylene				
Parathion-Ethyl				
Parathion-Methyl				
PCB-1016				
PCB-1221				
PCB-1232				
PCB-1242				
PCB-1248				
PCB-1254				
PCB-1260				
Pentachlorobenzene				
Pentachloronitrobenzene				
Pentachlorophenol [2C]				
Phenacetin				
Phenanthrene				
Phenol				
Phorate				
Pronamide				
Propionitrile				
Pyrene				
Safrole				
Selenium	<5.00	<4.00	<2.00	6.20
Silver	<1.0	<4.0	<5.0	<5.0
Styrene	<1	<1	<1	<1
Sulfide				
Tetrachloroethene	<1	<1	<1	<1
Thallium	<1.0	<2.0	<.5	<.5
Thionazin				
Tin				
Toluene	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	2170.000			
Toxaphene				
trans-1,2-Dichloroethene	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<1	<1	<1
trans-1,4-Dichloro-2-Butene	<10	<5	<5	<5
Trichloroethene	<1	<1	<1	<1
Trichlorofluoromethane	<4	<1	<1	<1
Vanadium	30.70	<20.00	<2.00	<2.00
Vinyl Acetate	<10	<5	<5	<5
Vinyl Chloride	<1	<1	<1	<1
Xylenes, total	<3.00	<2.00	<2.00	<2.00
Zinc	33.2	<20.0	<5.0	5.2

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

Table 9

Analytical Data Summary for MW-37R

Constituents	Units	11/27/2018	3/18/2019	6/5/2019	8/22/2019	12/2/2019	2/28/2020	3/30/2020	11/17/2020
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-Dichloroethene	ug/L	<2	<2	<2	<2	<2		<2	<2
1,1-Dichloropropene	ug/L							<1	<1
1,2,3-Trichloropropene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2,4,5-Tetrachlorobenzene	ug/L							<10.2	<10.6
1,2,4-Trichlorobenzene	ug/L							<5	<5
1,2-Dibromo-3-Chloropropane	ug/L	<1.2	<1.2	<1.2	<1.2	<1.2		<5.0	<5.0
1,2-Dibromoethane	ug/L	<.34	<.34	<.34	<.34	<.34		<1.00	<1.00
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								
1,3,5-Trinitrobenzene	ug/L							<10.2	<10.6
1,3-Dichlorobenzene	ug/L							<1	<1
1,3-Dichloropropane	ug/L							<1	<1
1,3-Dinitrobenzene	ug/L							<10.2	<10.6
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,4-Naphthoquinone	ug/L							<10.2	<10.6
1,4-Phenylenediamine	ug/L							<10.2	<10.6
1-Naphthylamine	ug/L							<10.2	<10.6
2,2-Dichloropropane	ug/L							<4	<4
2,3,4,6-Tetrachlorophenol	ug/L							<10.2	<10.6
2,4,5-T	ug/L								
2,4,5-T [2C]	ug/L							<1.060	<.138
2,4,5-TP (Silvex)	ug/L								
2,4,5-TP [Silvex] [2C]	ug/L							<1.060	<.138
2,4,5-Trichlorophenol	ug/L							<10.2	<10.6
2,4,6-Trichlorophenol	ug/L							<10.2	<10.6
2,4-D	ug/L								
2,4-D [2C]	ug/L							<1.060	<.276
2,4-Dichlorophenol	ug/L							<10.2	<10.6
2,4-Dimethylphenol	ug/L							<10.2	<10.6
2,4-Dinitrophenol	ug/L							<20.4	<21.3
2,4-Dinitrotoluene	ug/L							<10.2	<10.6
2,6-Dichlorophenol	ug/L							<10.2	<10.6
2,6-Dinitrotoluene	ug/L							<10.2	<10.6
2-Acetylaminofluorene	ug/L							<10.2	<10.6
2-Butanone	ug/L	<10	<10	<10	<10	<10		<10	<10
2-Chloronaphthalene	ug/L							<10.2	<10.6
2-Chlorophenol	ug/L							<10.2	<10.6
2-Hexanone	ug/L	<10	<10	<10	<10	<10		<10	<10
2-Methylnaphthalene	ug/L							<10.2	<10.6
2-Methylphenol	ug/L							<10.2	<10.6
2-Methylphenol (o-Cresol)	ug/L								
2-Naphthylamine	ug/L							<10.2	<10.6
2-Nitroaniline	ug/L							<10.2	<10.6
2-Nitrophenol	ug/L							<10.2	<10.6
3,3'-Dichlorobenzidine	ug/L								
3,3-Dichlorobenzidine	ug/L							<10.2	<10.6
3,3-Dimethylbenzidine	ug/L							<10.2	<10.6
3/4-Methylphenol	ug/L							<10.2	<10.6
3-Chloropropene	ug/L							<2	<2
3-Methylcholanthrene	ug/L							<10.2	<10.6
3-Nitroaniline	ug/L							<10.2	<10.6
4,4'-DDD	ug/L							<.0360	<.0348
4,4'-DDE	ug/L							<.03600	<.00274
4,4'-DDT	ug/L							<.0360	<.0348
4,6-Dinitro-2-methylphenol	ug/L							<10.2	<10.6
4-Aminobiphenyl	ug/L							<10.2	<10.6
4-Bromophenyl phenyl ether	ug/L							<10.2	<10.6
4-Chloro-3-methylphenol	ug/L							<10.2	<10.6
4-Chloroaniline	ug/L							<10.2	<10.6
4-Chlorophenyl phenyl ether	ug/L							<10.2	<10.6
4-Methyl-2-Pentanone	ug/L	<10	<10	<10	<10	<10		<10	<10
4-Nitroaniline	ug/L							<10.2	<10.6
4-Nitrophenol	ug/L							<10.2	<10.6
5-Nitro-o-toluidine	ug/L							<10.2	<10.6
7,12-Dimethylbenz [a] anthracene	ug/L							<10.2	<10.6
Acenaphthene	ug/L							<10.2	<10.6
Acenaphthylene	ug/L							<10.2	<10.6
Acetone	ug/L	<10.00	<3.18 *	<10.00	<10.00	<10.00		<10.00	<10.00
Acetonitrile	ug/L							<10000	<10000
Acetophenone	ug/L							<10.2	<10.6

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

Table 9

Analytical Data Summary for MW-37R

Constituents	5/6/2021	10/7/2021	4/6/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
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-Dichloroethene	<2	<2	<2	<2	<2	<2	<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									<8.0
1,2,4-Trichlorobenzene									<1
1,2-Dibromo-3-Chloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0
1,2-Dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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									<8.0
1,3-Dichlorobenzene									<1
1,3-Dichloropropane									<1
1,3-Dinitrobenzene									<8.0
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone									<8.0
1,4-Phenylenediamine									<8.0
1-Naphthylamine									<8.0
2,2-Dichloropropane									<1
2,3,4,6-Tetrachlorophenol									<8.0
2,4,5-T									<.5
2,4,5-T [2C]									
2,4,5-TP (Silvex)									<.5
2,4,5-TP [Silvex] [2C]									
2,4,5-Trichlorophenol									<8.0
2,4,6-Trichlorophenol									<8.0
2,4-D									<2
2,4-D [2C]									
2,4-Dichlorophenol									<8.0
2,4-Dimethylphenol									<8.0
2,4-Dinitrophenol									<8.0
2,4-Dinitrotoluene									<8.0
2,6-Dichlorophenol									<8.0
2,6-Dinitrotoluene									<8.0
2-Acetylaminofluorene									<8.0
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<5
2-Chloronaphthalene									<8.0
2-Chlorophenol									<8.0
2-Hexanone	<10	<10	<10	<10	<10	<10	<5	<5	<5
2-Methylnaphthalene									<8.0
2-Methylphenol									
2-Methylphenol (o-Cresol)									<8
2-Naphthylamine									<8.0
2-Nitroaniline									<8.0
2-Nitrophenol									<8.0
3,3'-Dichlorobenzidine									<8
3,3-Dichlorobenzidine									
3,3-Dimethylbenzidine									<8.0
3/4-Methylphenol									<8.0
3-Chloropropene									
3-Methylcholanthrene									<8.0
3-Nitroaniline									<8.0
4,4'-DDD									<.0500
4,4'-DDE									<.05000
4,4'-DDT									<.0500
4,6-Dinitro-2-methylphenol									<8.0
4-Aminobiphenyl									<8.0
4-Bromophenyl phenyl ether									<8.0
4-Chloro-3-methylphenol									<8.0
4-Chloroaniline									<8.0
4-Chlorophenyl phenyl ether									<8.0
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<5	<5	<5
4-Nitroaniline									<8.0
4-Nitrophenol									<8.0
5-Nitro-o-toluidine									<8.0
7,12-Dimethylbenz [a] anthracene									<8.0
Acenaphthene									<8.0
Acenaphthylene									<8.0
Acetone	<10.00	<10.00	<10.00	<10.00	<3.23	<10.00	<10.00	<10.00	<10.00
Acetonitrile									<10
Acetophenone									<8.0

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

Table 9

Analytical Data Summary for MW-37R

Constituents	Units	11/27/2018	3/18/2019	6/5/2019	8/22/2019	12/2/2019	2/28/2020	3/30/2020	11/17/2020
Acrolein	ug/L							<10	<10
Acrylonitrile	ug/L	<10	<10	<10	<10	<10		<5	<5
Aldrin	ug/L							<.0360	<.0348
Allyl chloride	ug/L								
alpha-BHC	ug/L							<.00382	<.03480
Anthracene	ug/L							<10.2	<10.6
Antimony	ug/L	<1.000	<1.000	<3.000	<1.000	<1.000		<.632	<1.000
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	ug/L	<2.000	<2.000	1.210	<2.000	<2.000		<2.000	<1.260
Azobenzene	ug/L								
Barium	ug/L	828	887 *	710	879	786	857	805	780
Benzene	ug/L	<.5	<.5	<.5	<.5	<.5		<.5	<.5
Benzo [a] anthracene	ug/L							<10.2	<10.6
Benzo [a] pyrene	ug/L							<10.2	<10.6
Benzo [b] fluoranthene	ug/L							<10.2	<10.6
Benzo [g,h,i] perylene	ug/L							<10.2	<10.6
Benzo [k] fluoranthene	ug/L							<10.2	<10.6
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							<10.2	<10.6
Beryllium	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000	<.342
beta-BHC	ug/L							<.0360	<.0348
Bis (2-Chloroethoxy) Methane	ug/L								
Bis(2-Chloroethyl) Ether	ug/L								
Bis[2-chloroethoxy]methane	ug/L							<10.2	<10.6
Bis[2-chloroethyl]ether	ug/L							<10.2	<10.6
Bis[2-chloroisopropyl]ether	ug/L							<10.2	<10.6
Bis[2-ethylhexyl]phthalate	ug/L							<10.2	<10.6
Bromochloromethane	ug/L	<5	<5	<5	<5	<5		<5	<5
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromoform	ug/L	<5	<5	<5	<5	<5		<5	<5
Bromomethane	ug/L	<4	<4	<4	<4	<4		<4	<4
Butyl benzyl phthalate	ug/L							<10.2	<10.6
Cadmium	ug/L	<.207	<.219 *	<.500	<.219	.133		.118	.474
Carbon Disulfide	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
Carbon Tetrachloride	ug/L	<2	<2	<2	<2	<2		<2	<2
Chlordane	ug/L							<2.25	<2.17
Chlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate	ug/L							<10.2	<10.6
Chlorodibromomethane	ug/L	<5	<5	<5	<5	<5		<5	<5
Chloroethane	ug/L	<4	<4	<4	<4	<4		<4	<4
Chloroform	ug/L	<3	<3	<3	<3	<3		<3	<3
Chloromethane	ug/L	<3	<3	<3	<3	<3		<3	<3
Chloroprene	ug/L							<1	<1
Chromium	ug/L	<5.00	<5.00	<5.00	<5.00	<5.00		<5.00	<2.65
Chrysene	ug/L							<10.2	<10.6
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
cis-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5		<5	<5
Cobalt	ug/L	<.156	<.298 *	<1.000	<.500	<.097		<.500	2.210
Copper	ug/L	<5.00	<5.00	<1.26	<5.00	<3.23		<5.00	<3.70
Cyanide	mg/L							<.01	<.01
delta-BHC	ug/L							<.0360	<.0348
Diallate	ug/L								
Diallate [cis or trans]	ug/L							<10.2	<10.6
Dibenz [a,h] anthracene	ug/L							<10.2	<10.6
Dibenzo(a,h)anthracene	ug/L								
Dibenzofuran	ug/L							<10.2	<10.6
Dichlorodifluoromethane	ug/L							<3	<3
Dieldrin	ug/L							<.0360	<.0348
Diethyl phthalate	ug/L							<10.2	<10.6
Dimethoate	ug/L							<10.2	<10.6
Dimethyl phthalate	ug/L							<10.2	<10.6
Dimethylaminoazobenzene	ug/L							<10.2	<10.6
Dimethylphthalate	ug/L								
Di-n-butyl phthalate	ug/L							<10.2	<10.6
Di-n-octyl phthalate	ug/L							<20.4	<21.3
Dinoseb	ug/L							<10.2	<10.6
Diphenylamine	ug/L							<10.2	<10.6

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

Table 9

Analytical Data Summary for MW-37R

Constituents	5/6/2021	10/7/2021	4/6/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
Acrolein									<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin									<.0500
Allyl chloride									<1
alpha-BHC									<.05000
Anthracene									<8.0
Antimony	<2.000	<2.000	<2.000	<1.530	<2.000	<2.000	<2.000	<1.000	<1.000
Arochlor 1016									<.2
Arochlor 1221									<.2
Arochlor 1232									<.2
Arochlor 1242									<.2
Arochlor 1248									<.2
Arochlor 1254									<.2
Arochlor 1260									<.2
Arsenic	<.800 *	<.750	<.888	<.838	<.637	<.772	<4.000	<2.000	<2.000
Azobenzene									<8
Barium	907 *	911	939	863	693	686	715	687	925
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<1.0	<1.0	<1.0
Benzo [a] anthracene									
Benzo [a] pyrene									<8
Benzo [b] fluoranthene									<8
Benzo [g,h,i] perylene									<8
Benzo [k] fluoranthene									<8
Benzo(a)anthracene									<8
Benzo(a)Pyrene									<8
Benzo(b)Fluoranthene									<8
Benzo(g,h,i)perylene									<8
Benzo(k)Fluoranthene									<8
Benzyl alcohol									<8.0
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<4.000	<.500	<.500
beta-BHC									<.0500
Bis (2-Chloroethoxy) Methane									<8
Bis(2-Chloroethyl) Ether									<8
Bis[2-chloroethoxy]methane									
Bis[2-chloroethyl]ether									
Bis[2-chloroisopropyl]ether									<8.0
Bis[2-ethylhexyl]phthalate									<6.0
Bromochloromethane	<5	<5	<5	<5	<5	<5	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<1	<1	<1
Bromomethane	<4	<4	<4	<4	<4	<4	<1	<1	<1
Butyl benzyl phthalate									<8.0
Cadmium	.345 *	.339	.224	.186	.205	<.159	<.800	<.200	<.200
Carbon Disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.2
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<1	<1	<1
Chlordane									<.10
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate									<8.0
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<1	<1	<1
Chloroethane	<4	<4	<4	<4	<4	<4	<1	<1	<1
Chloroform	<3	<3	<3	<3	<3	<3	<1	<1	<1
Chloromethane	<3	<3	<3	<3	<3	<3	<1	<1	<1
Chloroprene									<1
Chromium	<1.34 *	<1.18	<1.94	<5.00	<4.65	<1.61	<8.00	1.80	1.00
Chrysene									<8.0
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<1	<1	<1
Cobalt	.742 *	1.380	1.720	.690	1.210	.744	<.400	<.500	<.500
Copper	<1.81 *	<1.90	<2.43	<5.00	<5.00	<1.92	<4.00	<5.00	<5.00
Cyanide									<.01
delta-BHC									<.0500
Diallate									<8
Diallate [cis or trans]									
Dibenz [a,h] anthracene									<8
Dibenzo(a,h)anthracene									<8.0
Dibenzofuran									<1
Dichlorodifluoromethane									<.0500
Dieldrin									<8.0
Diethyl phthalate									<.4
Dimethoate									
Dimethyl phthalate									<8
Dimethylaminoazobenzene									<8.0
Dimethylphthalate									<8.0
Di-n-butyl phthalate									<.5
Di-n-octyl phthalate									<8.0
Dinoseb									<.5
Diphenylamine									<8.0

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

Table 9

Analytical Data Summary for MW-37R

Constituents	Units	11/27/2018	3/18/2019	6/5/2019	8/22/2019	12/2/2019	2/28/2020	3/30/2020	11/17/2020
Disulfoton	ug/L							<10.2	<10.6
Endosulfan I	ug/L							<.0360	<.0348
Endosulfan II	ug/L							<.0360	<.0348
Endosulfan sulfate	ug/L							<.0360	<.0348
Endrin	ug/L							<.0360	<.0348
Endrin aldehyde	ug/L							<.0360	<.0348
Ethyl Methacrylate	ug/L							<2	<2
Ethyl Methanesulfonate	ug/L							<10.2	<10.6
Ethylbenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Famphur	ug/L							<10.2	<10.6
Fluoranthene	ug/L							<10.2	<10.6
Fluorene	ug/L							<10.2	<10.6
gamma-BHC [Lindane]	ug/L							<.03600	<.00211
Heptachlor	ug/L							<.0360	<.0348
Heptachlor Epoxide	ug/L							<.0360	<.0348
Hexachlorobenzene	ug/L							<10.20	<10.60
Hexachlorobutadiene	ug/L							<10.2	<10.6
Hexachlorocyclopentadiene	ug/L							<10.2	<10.6
Hexachloroethane	ug/L							<10.2	<10.6
Hexachloropropene	ug/L							<10.2	<10.6
Indeno [1,2,3-cd] pyrene	ug/L							<10.2	<10.6
Indeno (1,2,3-cd)Pyrene	ug/L							<10.2	<10.6
Iodomethane	ug/L	<10	<10	<10	<10	<10		<10	<10
Isobutanol	ug/L							<10000	<10000
Isodrin	ug/L							<10.2	<10.6
Isophorone	ug/L							<10.2	<10.6
Isosafrole	ug/L							<10.2	<10.6
Kepone	ug/L							<10.2	<10.6
Lead	ug/L	<.500	<.500	<.500	<.500	.719	<.500	<.500	3.800
Mercury	ug/L							<.2	<.2
Methacrylonitrile	ug/L							<10	<10
Methapyrilene	ug/L							<10.2	<10.6
Methoxychlor	ug/L							<.0360	<.0348
Methyl Methacrylate	ug/L							<2	<2
Methyl Methanesulfonate	ug/L							<10.2	<10.6
Methyl Parathion	ug/L								
Methylene Bromide	ug/L	<1	<1	<1	<1	<1		<1	<1
Methylene Chloride	ug/L	<5	<5	<5	<5	<5		<5	<5
Naphthalene	ug/L							<5	<5
Nickel	ug/L	7.76	7.74 *	4.82	7.65	7.72	7.13	5.90	10.50
Nitrobenzene	ug/L							<10.2	<10.6
N-Nitrosodiethylamine	ug/L							<10.2	<10.6
N-Nitrosodimethylamine	ug/L							<10.2	<10.6
N-Nitrosodi-n-butylamine	ug/L							<10.2	<10.6
N-Nitrosodi-n-propylamine	ug/L							<10.2	<10.6
n-Nitroso-di-n-propylamine	ug/L								
N-Nitrosodiphenylamine	ug/L							<10.2	<10.6
N-Nitrosomethylethylamine	ug/L							<10.2	<10.6
N-Nitrosopiperidine	ug/L							<10.2	<10.6
N-Nitrosopyrrolidine	ug/L							<10.2	<10.6
O,O,O-Triethyl Phosphorothioate	ug/L							<10.2	<10.6
o-Toluidine	ug/L							<10.2	<10.6
p-(Dimethylamino)azobenzene	ug/L								
Parathion	ug/L								
Parathion-Ethyl	ug/L							<10.2	<10.6
Parathion-Methyl	ug/L							<10.2	<10.6
PCB-1016	ug/L							<.899	<.870
PCB-1221	ug/L							<.899	<.870
PCB-1232	ug/L							<.899	<.870
PCB-1242	ug/L							<.899	<.870
PCB-1248	ug/L							<.899	<.870
PCB-1254	ug/L							<.899	<.870
PCB-1260	ug/L							<.899	<.870
Pentachlorobenzene	ug/L							<10.2	<10.6
Pentachloronitrobenzene	ug/L							<10.2	<10.6
Pentachloronitrobenzene (PCNB)	ug/L								
Pentachlorophenol	ug/L								
Pentachlorophenol [2C]	ug/L							<10.2	<10.6
Phenacetin	ug/L							<10.2	<10.6
Phenanthrene	ug/L							<10.2	<10.6
Phenol	ug/L							<10.2	<10.6
Phorate	ug/L							<10.2	<10.6
Pronamide	ug/L							<10.2	<10.6
Propionitrile	ug/L							<10	<10
Pyrene	ug/L							<10.2	<10.6
Safrole	ug/L							<10.2	<10.6
Selenium	ug/L	12.30	8.08 *	10.00	6.32	5.04	<4.58	5.01	17.90

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

Table 9

Analytical Data Summary for MW-37R

Constituents	5/6/2021	10/7/2021	4/6/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
Disulfoton									<.4
Endosulfan I									<.0500
Endosulfan II									<.0500
Endosulfan sulfate									<.0500
Endrin									<.0500
Endrin aldehyde									<.0500
Ethyl Methacrylate									<10
Ethyl Methanesulfonate									<8.0
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur									<.4
Fluoranthene									<8.0
Fluorene									<8.0
gamma-BHC [Lindane]									<.05000
Heptachlor									<.0500
Heptachlor Epoxide									<.0500
Hexachlorobenzene									<.05
Hexachlorobutadiene									<8.0
Hexachlorocyclopentadiene									<8.0
Hexachloroethane									<8.0
Hexachloropropene									<8.0
Indeno [1,2,3-cd] pyrene									<8
Indeno(1,2,3-cd)Pyrene									<2
Iodomethane	<10	<10	<10	<10	<10	<10	<1	<1	<8
Isobutanol									<1000
Isodrin									<8.0
Isophorone									<8.0
Isosafrole									<8.0
Kepone									<8.0
Lead	1.685 *	2.670	3.800	1.590	1.350	2.160	<4.000	<1.000	<1.000
Mercury									<.5
Methacrylonitrile									<1
Methapyrilene									<8.0
Methoxychlor									<.0500
Methyl Methacrylate									<1
Methyl Methanesulfonate									<8.0
Methyl Parathion									<.4
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene									<8
Nickel	7.83 *	7.68	5.93	<3.66	12.70	<4.80	<4.00	<5.00	<5.00
Nitrobenzene									<8.0
N-Nitrosodiethylamine									<8.0
N-Nitrosodimethylamine									<8.0
N-Nitrosodi-n-butylamine									<8.0
N-Nitrosodi-n-propylamine									<8.0
n-Nitroso-di-n-propylamine									<8
N-Nitrosodiphenylamine									<8.0
N-Nitrosomethylethylamine									<8.0
N-Nitrosopiperidine									<8.0
N-Nitrosopyrrolidine									<8.0
O,O,O-Triethyl Phosphorothioate									<.4
o-Toluidine									<8.0
p-(Dimethylamino)azobenzene									<8
Parathion									<.4
Parathion-Ethyl									
Parathion-Methyl									
PCB-1016									
PCB-1221									
PCB-1232									
PCB-1242									
PCB-1248									
PCB-1254									
PCB-1260									
Pentachlorobenzene									<8.0
Pentachloronitrobenzene									
Pentachloronitrobenzene (PCNB)									<8
Pentachlorophenol									<8
Pentachlorophenol [2C]									
Phenacetin									<8.0
Phenanthrene									<8.0
Phenol									<8.0
Phorate									<.4
Pronamide									<8.0
Propionitrile									<10
Pyrene									<8.0
Safrole									<8.0
Selenium	12.95 *	11.90	14.30	20.10	55.80	40.50	15.80	50.30	2.80

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

Table 9

Analytical Data Summary for MW-37R

Constituents	Units	11/27/2018	3/18/2019	6/5/2019	8/22/2019	12/2/2019	2/28/2020	3/30/2020	11/17/2020
Silver	ug/L	<1.0	<1.0	<.5	<1.0	<1.0		<1.0	<1.0
Styrene	ug/L	<1	<1	<1	<1	<1		<1	<1
Sulfide	mg/L							<1.0	<10.0
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
Thallium	ug/L	<1.0	<1.0	<2.0	<1.0	<1.0		<1.0	<1.0
Thionazin	ug/L							<10.2	<10.6
Tin	ug/L							<5	<5
Toluene	ug/L	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00	1.21
Total Suspended Solids	mg/L	3.38	2.69 *	<1.63	<1.50	<1.75	3.13	<1.88	73.50
Toxaphene	ug/L							<2.25	<2.17
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
trans-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5		<5	<5
trans-1,4-Dichloro-2-Butene	ug/L	<10	<10	<10	<10	<10		<10	<10
Trichloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	ug/L	<4	<4	<4	<4	<4		<4	<4
Vanadium	ug/L	<1.660	<1.270 *	<5.000	<1.140	<.949		<.938	8.290
Vinyl Acetate	ug/L	<10	<10	<10	<10	<10		<10	<10
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	ug/L	<3.00	<3.00	<3.00	<3.00	<3.00		<3.00	5.25
Zinc	ug/L	<20.00	<20.00	<20.00	<20.00	<20.00		<20.00	<13.90

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

Table 9

Analytical Data Summary for MW-37R

Constituents	5/6/2021	10/7/2021	4/6/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
Silver	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<5.0	<5.0
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide									<1
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<.5	<.5
Thionazin									<.4
Tin									<.5
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	144.00 *	238.00	181.00	88.50	100.00	144.00			
Toxaphene									<.20
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<1	<1	<1
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<5	<5	<5
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<1	<1	<1
Vanadium	<3.025 *	<3.510	5.260	<2.720	<2.200	<3.910	<20.000	<2.000	<2.000
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<5	<5	<5
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<2.00	<2.00	<2.00
Zinc	<20.00	<20.00	<20.00	<20.00	<7.27	<20.00	<20.00	<5.00	<5.00

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

Table 9

Analytical Data Summary for MW-38R

Constituents	Units	11/27/2018	3/18/2019	6/5/2019	8/22/2019	12/2/2019	2/28/2020	3/30/2020	11/17/2020
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-Dichloroethene	ug/L	<2	<2	<2	<2	<2		<2	<2
1,1-Dichloropropene	ug/L							<1	<1
1,2,3-Trichloropropene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2,4,5-Tetrachlorobenzene	ug/L							<10.4	<10.3
1,2,4-Trichlorobenzene	ug/L							<5	<5
1,2-Dibromo-3-Chloropropane	ug/L	<5	<1.2	<1.2	<1.2	<1.2		<5.0	<5.0
1,2-Dibromoethane	ug/L	<.13	<.34	<.34	<.34	<.34		<1.00	<1.00
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
1,3,5-Trinitrobenzene	ug/L							<10.4	<10.3
1,3-Dichlorobenzene	ug/L							<1	<1
1,3-Dichloropropane	ug/L							<1	<1
1,3-Dinitrobenzene	ug/L							<10.4	<10.3
1,4-Dichlorobenzene	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000	<.299
1,4-Naphthoquinone	ug/L							<10.4	<10.3
1,4-Phenylenediamine	ug/L							<10.4	<10.3
1-Naphthylamine	ug/L							<10.4	<10.3
2,2-Dichloropropane	ug/L							<4	<4
2,3,4,6-Tetrachlorophenol	ug/L							<10.4	<10.3
2,4,5-T [2C]	ug/L							<1.010	<.133
2,4,5-TP [Silvex] [2C]	ug/L							<1.010	<.133
2,4,5-Trichlorophenol	ug/L							<10.4	<10.3
2,4,6-Trichlorophenol	ug/L							<10.4	<10.3
2,4-D [2C]	ug/L							<1.010	<.267
2,4-Dichlorophenol	ug/L							<10.4	<10.3
2,4-Dimethylphenol	ug/L							<10.4	<10.3
2,4-Dinitrophenol	ug/L							<20.8	<20.6
2,4-Dinitrotoluene	ug/L							<10.4	<10.3
2,6-Dichlorophenol	ug/L							<10.4	<10.3
2,6-Dinitrotoluene	ug/L							<10.4	<10.3
2-Acetylaminofluorene	ug/L							<10.4	<10.3
2-Butanone	ug/L	<10	<10	<10	<10	<10		<10	<10
2-Chloronaphthalene	ug/L							<10.4	<10.3
2-Chlorophenol	ug/L							<10.4	<10.3
2-Hexanone	ug/L	<10	<10	<10	<10	<10		<10	<10
2-Methylnaphthalene	ug/L							<10.4	<10.3
2-Methylphenol	ug/L							<10.4	<10.3
2-Naphthylamine	ug/L							<10.4	<10.3
2-Nitroaniline	ug/L							<10.4	<10.3
2-Nitrophenol	ug/L							<10.4	<10.3
3,3-Dichlorobenzidine	ug/L							<10.4	<10.3
3,3-Dimethylbenzidine	ug/L							<10.4	<10.3
3/4-Methylphenol	ug/L							<10.4	<10.3
3-Chloropropene	ug/L							<2	<2
3-Methylcholanthrene	ug/L							<10.4	<10.3
3-Nitroaniline	ug/L							<10.4	<10.3
4,4'-DDD	ug/L							<.0356	<.0337
4,4'-DDE	ug/L							<.0356	<.0337
4,4'-DDT	ug/L							<.00774	<.03370
4,6-Dinitro-2-methylphenol	ug/L							<10.4	<10.3
4-Aminobiphenyl	ug/L							<10.4	<10.3
4-Bromophenyl phenyl ether	ug/L							<10.4	<10.3
4-Chloro-3-methylphenol	ug/L							<10.4	<10.3
4-Chloroaniline	ug/L							<10.4	<10.3
4-Chlorophenyl phenyl ether	ug/L							<10.4	<10.3
4-Methyl-2-Pentanone	ug/L	<10	<10	<10	<10	<10		<10	<10
4-Nitroaniline	ug/L							<10.4	<10.3
4-Nitrophenol	ug/L							<10.4	<10.3
5-Nitro-o-toluidine	ug/L							<10.4	<10.3
7,12-Dimethylbenz [a] anthracene	ug/L							<10.4	<10.3
Acenaphthene	ug/L							<10.4	<10.3
Acenaphthylene	ug/L							<10.4	<10.3
Acetone	ug/L	<10.00	<3.41	<10.00	<10.00	<10.00		<10.00	<10.00
Acetonitrile	ug/L							<10000	<10000
Acetophenone	ug/L							<10.4	<10.3
Acrolein	ug/L							<10	<10
Acrylonitrile	ug/L	<10	<10	<10	<10	<10		<5	<5
Aldrin	ug/L							<.0356	<.0337
alpha-BHC	ug/L							<.00352	<.00277
Anthracene	ug/L							<10.4	<10.3
Antimony	ug/L	<1	<1	<3	<1	<1		<1	<1

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

Table 9

Analytical Data Summary for MW-38R

Constituents	5/6/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
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-Dichloroethene	<2	<2	<2	<2	<2	<2	<1	<1	<1
1,1-Dichloropropene									
1,2,3-Trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-Tetrachlorobenzene									
1,2,4-Trichlorobenzene									
1,2-Dibromo-3-Chloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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
1,3,5-Trinitrobenzene									
1,3-Dichlorobenzene									
1,3-Dichloropropane									
1,3-Dinitrobenzene									
1,4-Dichlorobenzene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,4-Naphthoquinone									
1,4-Phenylenediamine									
1-Naphthylamine									
2,2-Dichloropropane									
2,3,4,6-Tetrachlorophenol									
2,4,5-T [2C]									
2,4,5-TP [Silvex] [2C]									
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol									
2,4-D [2C]									
2,4-Dichlorophenol									
2,4-Dimethylphenol									
2,4-Dinitrophenol									
2,4-Dinitrotoluene									
2,6-Dichlorophenol									
2,6-Dinitrotoluene									
2-Acetylaminofluorene									
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene									
2-Chlorophenol									
2-Hexanone	<10	<10	<10	<10	<10	<10	<5	<5	<5
2-Methylnaphthalene									
2-Methylphenol									
2-Naphthylamine									
2-Nitroaniline									
2-Nitrophenol									
3,3-Dichlorobenzidine									
3,3-Dimethylbenzidine									
3/4-Methylphenol									
3-Chloropropene									
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	<10	<10	<10	<10	<10	<10	<5	<5	<5
4-Nitroaniline									
4-Nitrophenol									
5-Nitro-o-toluidine									
7,12-Dimethylbenz [a] anthracene									
Acenaphthene									
Acenaphthylene									
Acetone	<10.00	<10.00	<10.00	<10.00	<4.34	<10.00	<10.00	<10.00	<10.00
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin									
alpha-BHC									
Anthracene									
Antimony	<2	<2	<2	<2	<2	<2	<2	<1	<1

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

Table 9

Analytical Data Summary for MW-38R

Constituents	Units	11/27/2018	3/18/2019	6/5/2019	8/22/2019	12/2/2019	2/28/2020	3/30/2020	11/17/2020
Arsenic	ug/L	<2.000	<2.000	1.390	<2.000	<.842		<2.000	<2.000
Barium	ug/L	342	439	539	650	592	711	679	536
Benzene	ug/L	<.5	<.5	<.5	<.5	<.5		<.5	<.5
Benzo [a] anthracene	ug/L							<10.4	<10.3
Benzo [a] pyrene	ug/L							<10.4	<10.3
Benzo [b] fluoranthene	ug/L							<10.4	<10.3
Benzo [g,h,i] perylene	ug/L							<10.4	<10.3
Benzo [k] fluoranthene	ug/L							<10.4	<10.3
Benzyl alcohol	ug/L							<10.4	<10.3
Beryllium	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
beta-BHC	ug/L							<.0356	<.0337
Bis[2-chloroethoxy]methane	ug/L							<10.4	<10.3
Bis[2-chloroethyl]ether	ug/L							<10.4	<10.3
Bis[2-chloroisopropyl]ether	ug/L							<10.4	<10.3
Bis[2-ethylhexyl]phthalate	ug/L							<10.4	<10.3
Bromochloromethane	ug/L	<5	<5	<5	<5	<5		<5	<5
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromoform	ug/L	<5	<5	<5	<5	<5		<5	<5
Bromomethane	ug/L	<4	<4	<4	<4	<4		<4	<4
Butyl benzyl phthalate	ug/L							<10.4	<10.3
Cadmium	ug/L	<.132	<.151	<.275	<.398	.321	.391	.525	.220
Carbon Disulfide	ug/L	<1	<1	<1	<1	<1		<1	<1
Carbon Tetrachloride	ug/L	<2	<2	<2	<2	<2		<2	<2
Chlordane	ug/L							<2.22	<2.11
Chlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate	ug/L							<10.4	<10.3
Chlorodibromomethane	ug/L	<5	<5	<5	<5	<5		<5	<5
Chloroethane	ug/L	<4	<4	<4	<4	<4		<4	<4
Chloroform	ug/L	<3	<3	<3	<3	<3		<3	<3
Chloromethane	ug/L	<3	<3	<3	<3	<3		<3	<3
Chloroprene	ug/L							<1	<1
Chromium	ug/L	<5.00	<5.00	<5.00	14.60	<5.00		<5.00	<5.00
Chrysene	ug/L							<10.4	<10.3
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
cis-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5		<5	<5
Cobalt	ug/L	<.429	<.470	1.360	1.130	3.840	2.620	3.170	<.213
Copper	ug/L	<5.00	<5.00	<1.92	<5.00	<5.00		<5.00	<1.90
Cyanide	mg/L							<.01	<.01
delta-BHC	ug/L							<.0356	<.0337
Diallate [cis or trans]	ug/L							<10.4	<10.3
Dibenz [a,h] anthracene	ug/L							<10.4	<10.3
Dibenzofuran	ug/L							<10.4	<10.3
Dichlorodifluoromethane	ug/L							<3	<3
Dieldrin	ug/L							<.00242	<.03370
Diethyl phthalate	ug/L							<10.4	<10.3
Dimethoate	ug/L							<10.4	<10.3
Dimethyl phthalate	ug/L							<10.4	<10.3
Dimethylaminoazobenzene	ug/L							<10.4	<10.3
Di-n-butyl phthalate	ug/L							<10.4	<10.3
Di-n-octyl phthalate	ug/L							<20.8	<20.6
Dinoseb	ug/L							<10.4	<10.3
Diphenylamine	ug/L							<10.4	<10.3
Disulfoton	ug/L							<10.4	<10.3
Endosulfan I	ug/L							<.0356	<.0337
Endosulfan II	ug/L							<.0356	<.0337
Endosulfan sulfate	ug/L							<.03560	<.00905
Endrin	ug/L							<.00647	<.00544
Endrin aldehyde	ug/L							<.0356	<.0337
Ethyl Methacrylate	ug/L							<2	<2
Ethyl Methanesulfonate	ug/L							<10.4	<10.3
Ethylbenzene	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000	<.438
Famphur	ug/L							<10.4	<10.3
Fluoranthene	ug/L							<10.4	<10.3
Fluorene	ug/L							<10.4	<10.3
gamma-BHC [Lindane]	ug/L							<.0356	<.0337
Heptachlor	ug/L							<.0356	<.0337
Heptachlor Epoxide	ug/L							<.0356	<.0337
Hexachlorobenzene	ug/L							<10.4	<10.3
Hexachlorobutadiene	ug/L							<10.4	<10.3
Hexachlorocyclopentadiene	ug/L							<10.4	<10.3
Hexachloroethane	ug/L							<10.4	<10.3
Hexachloropropene	ug/L							<10.4	<10.3
Indeno [1,2,3-cd] pyrene	ug/L							<10.4	<10.3
Iodomethane	ug/L	<10	<10	<10	<10	<10		<10	<10
Isobutanol	ug/L							<10000	<10000
Isodrin	ug/L							<10.4	<10.3
Isophorone	ug/L							<10.4	<10.3

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

Table 9

Analytical Data Summary for MW-38R

Constituents	5/6/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
Arsenic	<2.000	<2.000	<2.000	<2.000	<2.000	<.543	15.700	<2.000	<2.000
Barium	453	310	348	261	212	273	337	215	247
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<.5	<.5
beta-BHC									
Bis[2-chloroethoxy]methane									
Bis[2-chloroethyl]ether									
Bis[2-chloroisopropyl]ether									
Bis[2-ethylhexyl]phthalate									
Bromochloromethane	<5	<5	<5	<5	<5	<5	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<1	<1	<1
Bromomethane	<4	<4	<4	<4	<4	<4	<1	<1	<1
Butyl benzyl phthalate									
Cadmium	.276	.197	.161	<.078	<.200	<.125	1.900	.200	<.200
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<1	<1	<1
Chlordane									
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate									
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<1	<1	<1
Chloroethane	<4	<4	<4	<4	<4	<4	<1	<1	<1
Chloroform	<3	<3	<3	<3	<3	<3	<1	<1	<1
Chloromethane	<3	<3	<3	<3	<3	<3	<1	<1	<1
Chloroprene									
Chromium	<5.00	<5.00	<5.00	<4.57	<3.75	177.00	218.00	3.20	3.20
Chrysene									
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<1	<1	<1
Cobalt	.501	<.477	<.261	<.323	<.185	2.870	16.800	.500	.600
Copper	<2.45	<2.01	<5.00	<5.00	<5.00	5.88	23.90	<5.00	<5.00
Cyanide									
delta-BHC									
Diallate [cis or trans]									
Dibenz [a,h] anthracene									
Dibenzofuran									
Dichlorodifluoromethane									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethyl phthalate									
Dimethylaminoazobenzene									
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	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Famphur									
Fluoranthene									
Fluorene									
gamma-BHC [Lindane]									
Heptachlor									
Heptachlor Epoxide									
Hexachlorobenzene									
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno [1,2,3-cd] pyrene									
Iodomethane	<10	<10	<10	<10	<10	<10	<1	<1	<1
Isobutanol									
Isodrin									
Isophorone									

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

Table 9

Analytical Data Summary for MW-38R

Constituents	Units	11/27/2018	3/18/2019	6/5/2019	8/22/2019	12/2/2019	2/28/2020	3/30/2020	11/17/2020
Isosafrole	ug/L							<10.4	<10.3
Kepone	ug/L							<10.4	<10.3
Lead	ug/L	<.500	<.500	<.500	<.286	<.278		<.403	<.500
Mercury	ug/L							<.2	<.2
Methacrylonitrile	ug/L							<10	<10
Methapyrilene	ug/L							<10.4	<10.3
Methoxychlor	ug/L							<.0356	<.0337
Methyl Methacrylate	ug/L							<2	<2
Methyl Methanesulfonate	ug/L							<10.4	<10.3
Methylene Bromide	ug/L	<1	<1	<1	<1	<1		<1	<1
Methylene Chloride	ug/L	<5	<5	<5	<5	<5		<10	<5
Naphthalene	ug/L							<5.00	<3.55
Nickel	ug/L	6.25	<3.98	11.00	10.80	10.80	10.50	8.99	8.11
Nitrobenzene	ug/L							<10.4	<10.3
N-Nitrosodiethylamine	ug/L							<10.4	<10.3
N-Nitrosodimethylamine	ug/L							<10.4	<10.3
N-Nitrosodi-n-butylamine	ug/L							<10.4	<10.3
N-Nitrosodi-n-propylamine	ug/L							<10.4	<10.3
N-Nitrosodiphenylamine	ug/L							<10.4	<10.3
N-Nitrosomethylethylamine	ug/L							<10.4	<10.3
N-Nitrosopiperidine	ug/L							<10.4	<10.3
N-Nitrosopyrrolidine	ug/L							<10.4	<10.3
O,O,O-Triethyl Phosphorothioate	ug/L							<10.4	<10.3
o-Toluidine	ug/L							<10.4	<10.3
Parathion-Ethyl	ug/L							<10.4	<10.3
Parathion-Methyl	ug/L							<10.4	<10.3
PCB-1016	ug/L							<.889	<.842
PCB-1221	ug/L							<.889	<.842
PCB-1232	ug/L							<.889	<.842
PCB-1242	ug/L							<.889	<.842
PCB-1248	ug/L							<.889	<.842
PCB-1254	ug/L							<.889	<.842
PCB-1260	ug/L							<.889	<.842
Pentachlorobenzene	ug/L							<10.4	<10.3
Pentachloronitrobenzene	ug/L							<10.4	<10.3
Pentachlorophenol [2C]	ug/L							<10.4	<10.3
Phenacetin	ug/L							<10.4	<10.3
Phenanthrene	ug/L							<10.4	<10.3
Phenol	ug/L							<10.4	<10.3
Phorate	ug/L							<10.4	<10.3
Pronamide	ug/L							<10.4	<10.3
Propionitrile	ug/L							<10	<10
Pyrene	ug/L							<10.4	<10.3
Safrole	ug/L							<10.4	<10.3
Selenium	ug/L	<5.00	<5.00	<2.50	<5.00	<5.00		<5.00	<5.00
Silver	ug/L	<1.0	<1.0	<.5	<1.0	<1.0		<1.0	<1.0
Styrene	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000	<.907
Sulfide	mg/L	<1	<1	<1	<1	<1		<1	<10
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
Thallium	ug/L	<1.0	<1.0	<2.0	<1.0	<1.0		<1.0	<1.0
Thionazin	ug/L							<10.4	<10.3
Tin	ug/L	<5						<5	<5
Toluene	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000	2.120
Total Suspended Solids	mg/L	12.800	3.250	2.500	7.370	11.000	4.750	8.000	<.875
Toxaphene	ug/L							<2.22	<2.11
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
trans-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5		<5	<5
trans-1,4-Dichloro-2-Butene	ug/L	<10	<10	<10	<10	<10		<10	<10
Trichloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	ug/L	<4	<4	<4	<4	<4		<4	<4
Vanadium	ug/L	<1.070	<.931	<5.000	<1.310	<.995		<1.480	<1.540
Vinyl Acetate	ug/L	<10	<10	<10	<10	<10		<10	<10
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	ug/L	<3.000	<3.000	<3.000	<3.000	<3.000		<3.000	10.200
Zinc	ug/L	<20	<20	<20	<20	<20		<20	<20

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

Table 9

Analytical Data Summary for MW-38R

Constituents	5/6/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025	10/27/2025
Isosafrole									
Kepon									
Lead	.601	.684	<.363	<.500	<.500	<.314	14.500	<1.000	<1.000
Mercury									
Methacrylonitrile									
Methapyrilene									
Methoxychlor									
Methyl Methacrylate									
Methyl Methanesulfonate									
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene									
Nickel	7.39	<2.77	<4.46	5.69	<4.09	135.00	145.00	<5.00	<5.00
Nitrobenzene									
N-Nitrosodiethylamine									
N-Nitrosodimethylamine									
N-Nitrosodi-n-butylamine									
N-Nitrosodi-n-propylamine									
N-Nitrosodiphenylamine									
N-Nitrosomethylethylamine									
N-Nitrosopiperidine									
N-Nitrosopyrrolidine									
O,O,O-Triethyl Phosphorothioate									
o-Toluidine									
Parathion-Ethyl									
Parathion-Methyl									
PCB-1016									
PCB-1221									
PCB-1232									
PCB-1242									
PCB-1248									
PCB-1254									
PCB-1260									
Pentachlorobenzene									
Pentachloronitrobenzene									
Pentachlorophenol [2C]									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Pronamide									
Propionitrile									
Pyrene									
Safrole									
Selenium	<1.77	13.60	10.30	29.10	26.40	43.20	7.80	3.20	5.60
Silver	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<5.0	<5.0
Styrene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Sulfide									
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<.5	<.5
Thionazin									
Tin									
Toluene	<1.000	<.519	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	38.700	23.500	4.370	3.750	3.750	22.800			
Toxaphene									
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<1	<1	<1
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<5	<5	<5
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<1	<1	<1
Vanadium	<2.520	<2.760	<1.370	<5.000	<5.000	<2.230	59.300	<2.000	3.100
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<5	<5	<5
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.000	<.461	<3.000	<3.000	<3.000	<3.000	<2.000	<2.000	<2.000
Zinc	<20	<20	<20	<20	<20	<20	44	<5	<5

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

Table 9

Analytical Data Summary for MW-39

Constituents	Units	8/21/2009	12/15/2009	2/18/2010	3/11/2010	5/27/2010	8/31/2010	11/4/2010	2/16/2011
1,1,1,2-Tetrachloroethane	ug/L	<1	<1	<2	<1	<4	<1	<1	<1
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<5	<4	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<2	<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-Dichloroethene	ug/L	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene	ug/L								
1,2,3-Trichloropropane	ug/L	<1.0	<1.0	<2.0	<2.5	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene	ug/L								
1,2,4-Trichlorobenzene	ug/L								
1,2-Dibromo-3-Chloropropane	ug/L	<.498	<.498	<.498	<.498	<.498	<.498	<.120	<.120
1,2-Dibromoethane	ug/L	<.255	<.255	<.255	<.255	<.255	<.255	<.130	<.130
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
1,3,5-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
1,4-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 [2C]	ug/L								
2,4,5-TP [Silvex] [2C]	ug/L								
2,4,5-Trichlorophenol	ug/L								
2,4,6-Trichlorophenol	ug/L								
2,4-D [2C]	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	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	ug/L								
2-Chlorophenol	ug/L								
2-Hexanone	ug/L	<10	<10	<10	<10	<20	<10	<10	<10
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								
3/4-Methylphenol	ug/L								
3-Chloropropene	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	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
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	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L								
Acetophenone	ug/L								
Acrolein	ug/L								
Acrylonitrile	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Aldrin	ug/L								
alpha-BHC	ug/L								
alpha-Chlordane	ug/L								
Anthracene	ug/L								

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

Table 9

Analytical Data Summary for MW-39

Constituents	7/7/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	10/3/2013	4/22/2014	10/14/2014	5/12/2015
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	<2	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<1	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene	<1			<1					
1,2,3-Trichloropropane	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene	<10.0			<10.0					
1,2,4-Trichlorobenzene	<5			<5					
1,2-Dibromo-3-Chloropropane	<10.000	<.120	<.200	<.120	<.120	<.120	<.120	<.120	<.500
1,2-Dibromoethane	<10.000	<.130	<.050	<.130	<.130	<.130	<.130	<.130	<.130
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
1,3,5-Trinitrobenzene	<10.0			<10.0					
1,3-Dichlorobenzene	<1			<1					
1,3-Dichloropropane	<1			<1					
1,3-Dinitrobenzene	<10.0			<10.0					
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone	<10.0			<10.0					
1,4-Phenylenediamine	<10.0			<10.0					
1-Naphthylamine	<10.0			<10.0					
2,2-Dichloropropane	<4			<4					
2,3,4,6-Tetrachlorophenol	<10.0			<10.0					
2,4,5-T [2C]	<.24			<.45					
2,4,5-TP [Silvex] [2C]	<.24			<.30					
2,4,5-Trichlorophenol	<10.0			<10.0					
2,4,6-Trichlorophenol	<10.0			<10.0					
2,4-D [2C]	<.45			<.48					
2,4-Dichlorophenol	<10.0			<10.0					
2,4-Dimethylphenol	<10.0			<10.0					
2,4-Dinitrophenol	<20			<20					
2,4-Dinitrotoluene	<10.0			<10.0					
2,6-Dichlorophenol	<10.0			<10.0					
2,6-Dinitrotoluene	<10.0			<10.0					
2-Acetylaminofluorene	<10.0			<10.0					
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	<10.0			<10.0					
2-Chlorophenol	<10.0			<10.0					
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	<10.0			<10.0					
2-Methylphenol	<10.0			<10.0					
2-Naphthylamine	<10.0			<10.0					
2-Nitroaniline	<10.0			<10.0					
2-Nitrophenol	<10.0			<10.0					
3,3-Dichlorobenzidine	<10.0			<10.0					
3,3-Dimethylbenzidine	<10.0			<10.0					
3/4-Methylphenol	<10.0			<10.0					
3-Chloropropene	<2			<2					
3-Methylcholanthrene	<10.0			<10.0					
3-Nitroaniline	<10.0			<10.0					
4,4'-DDD	<.0320			<.0320					
4,4'-DDE	<.0320			<.0320					
4,4'-DDT	<.0320			<.0320					
4,6-Dinitro-2-methylphenol	<10.0			<10.0					
4-Aminobiphenyl	<10.0			<10.0					
4-Bromophenyl phenyl ether	<10.0			<10.0					
4-Chloro-3-methylphenol	<10.0			<10.0					
4-Chloroaniline	<10.0			<10.0					
4-Chlorophenyl phenyl ether	<10.0			<10.0					
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline	<10.0			<10.0					
4-Nitrophenol	<10.0			<10.0					
5-Nitro-o-toluidine	<10.0			<10.0					
7,12-Dimethylbenz [a] anthracene	<10.0			<10.0					
Acenaphthene	<10.0			<10.0					
Acenaphthylene	<10.0			<10.0					
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	<10000			<10000					
Acetophenone	<10.0			<10.0					
Acrolein	<10			<10					
Acrylonitrile	<10	<10	<5	<10	<10	<10	<10	<10	<10
Aldrin	<.0320			<.0320					
alpha-BHC	<.0320			<.0320					
alpha-Chlordane				<.032					
Anthracene	<10.0			<10.0					

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

Table 9

Analytical Data Summary for MW-39

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/27/2018	3/18/2019	12/2/2019
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-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene				<1					
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene				<11.5					
1,2,4-Trichlorobenzene				<5					
1,2-Dibromo-3-Chloropropane	<.500	<.500	<.500	<.500	<.500	<.500	<1.200	<1.200	<1.200
1,2-Dibromoethane	<.130	<.130	<.130	<.130	<.130	<.130	<.340	<.340	<.340
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
1,3,5-Trinitrobenzene				<11.5					
1,3-Dichlorobenzene				<1					
1,3-Dichloropropane				<1					
1,3-Dinitrobenzene				<11.5					
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone				<11.5					
1,4-Phenylenediamine				<11.5					
1-Naphthylamine				<11.5					
2,2-Dichloropropane				<4					
2,3,4,6-Tetrachlorophenol				<11.5					
2,4,5-T [2C]				<1.32					
2,4,5-TP [Silvex] [2C]				<1.32					
2,4,5-Trichlorophenol				<11.5					
2,4,6-Trichlorophenol				<11.5					
2,4-D [2C]				<1.32					
2,4-Dichlorophenol				<11.5					
2,4-Dimethylphenol				<11.5					
2,4-Dinitrophenol				<23					
2,4-Dinitrotoluene				<11.5					
2,6-Dichlorophenol				<11.5					
2,6-Dinitrotoluene				<11.5					
2-Acetylaminofluorene				<11.5					
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene				<11.5					
2-Chlorophenol				<11.5					
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene				<11.5					
2-Methylphenol				<11.5					
2-Naphthylamine				<11.5					
2-Nitroaniline				<11.5					
2-Nitrophenol				<11.5					
3,3-Dichlorobenzidine				<57.5					
3,3-Dimethylbenzidine				<11.5					
3/4-Methylphenol				<11.5					
3-Chloropropene				<2					
3-Methylcholanthrene				<11.5					
3-Nitroaniline				<11.5					
4,4'-DDD				<.0320					
4,4'-DDE				<.0320					
4,4'-DDT				<.0320					
4,6-Dinitro-2-methylphenol				<11.5					
4-Aminobiphenyl				<11.5					
4-Bromophenyl phenyl ether				<11.5					
4-Chloro-3-methylphenol				<11.5					
4-Chloroaniline				<11.5					
4-Chlorophenyl phenyl ether				<11.5					
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline				<11.5					
4-Nitrophenol				<11.5					
5-Nitro-o-toluidine				<11.5					
7,12-Dimethylbenz [a] anthracene				<11.5					
Acenaphthene				<11.5					
Acenaphthylene				<11.5					
Acetone	<10.00	<10.00	<10.00	<10.00	<2.76 *	<10.00	<10.00	<10.00	<10.00
Acetonitrile				<10000					
Acetophenone				<11.5					
Acrolein				<10					
Acrylonitrile	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aldrin				<.0320					
alpha-BHC				<.0320					
alpha-Chlordane									
Anthracene				<11.5					

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

Table 9

Analytical Data Summary for MW-39

Constituents	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024
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-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene					<1				
1,2,3-Trichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene					<10.0				
1,2,4-Trichlorobenzene					<5				
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
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
1,3,5-Trinitrobenzene					<10.0				
1,3-Dichlorobenzene					<1				
1,3-Dichloropropane					<1				
1,3-Dinitrobenzene					<10.0				
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone					<10.0				
1,4-Phenylenediamine					<10.0				
1-Naphthylamine					<10.0				
2,2-Dichloropropane					<4				
2,3,4,6-Tetrachlorophenol					<10.0				
2,4,5-T [2C]					<1.03				
2,4,5-TP [Silvex] [2C]					<1.03				
2,4,5-Trichlorophenol					<10.0				
2,4,6-Trichlorophenol					<10.0				
2,4-D [2C]					<1.03				
2,4-Dichlorophenol					<10.0				
2,4-Dimethylphenol					<10.0				
2,4-Dinitrophenol					<20				
2,4-Dinitrotoluene					<10.0				
2,6-Dichlorophenol					<10.0				
2,6-Dinitrotoluene					<10.0				
2-Acetylaminofluorene					<10.0				
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene					<10.0				
2-Chlorophenol					<10.0				
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene					<10.0				
2-Methylphenol					<10.0				
2-Naphthylamine					<10.0				
2-Nitroaniline					<10.0				
2-Nitrophenol					<10.0				
3,3-Dichlorobenzidine					<10.0				
3,3-Dimethylbenzidine					<10.0				
3/4-Methylphenol					<10.0				
3-Chloropropene					<2				
3-Methylcholanthrene					<10.0				
3-Nitroaniline					<10.0				
4,4'-DDD					<.0696				
4,4'-DDE					<.0696				
4,4'-DDT					<.0696				
4,6-Dinitro-2-methylphenol					<10.0				
4-Aminobiphenyl					<10.0				
4-Bromophenyl phenyl ether					<10.0				
4-Chloro-3-methylphenol					<10.0				
4-Chloroaniline					<10.0				
4-Chlorophenyl phenyl ether					<10.0				
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline					<10.0				
4-Nitrophenol					<10.0				
5-Nitro-o-toluidine					<10.0				
7,12-Dimethylbenz [a] anthracene					<10.0				
Acenaphthene					<10.0				
Acenaphthylene					<10.0				
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<7.38 *	<10.00
Acetonitrile					<10000				
Acetophenone					<10.0				
Acrolein					<10				
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin					<.0696				
alpha-BHC					<.0696				
alpha-Chlordane									
Anthracene					<10.0				

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

Table 9

Analytical Data Summary for MW-39

Constituents	10/15/2024	4/16/2025	10/27/2025
1,1,1,2-Tetrachloroethane	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1
1,1-Dichloroethene	<1	<1	<1
1,1-Dichloropropene			
1,2,3-Trichloropropene	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene			
1,2,4-Trichlorobenzene			
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1
1,3,5-Trinitrobenzene			
1,3-Dichlorobenzene			
1,3-Dichloropropane			
1,3-Dinitrobenzene			
1,4-Dichlorobenzene	<1	<1	<1
1,4-Naphthoquinone			
1,4-Phenylenediamine			
1-Naphthylamine			
2,2-Dichloropropane			
2,3,4,6-Tetrachlorophenol			
2,4,5-T [2C]			
2,4,5-TP [Silvex] [2C]			
2,4,5-Trichlorophenol			
2,4,6-Trichlorophenol			
2,4-D [2C]			
2,4-Dichlorophenol			
2,4-Dimethylphenol			
2,4-Dinitrophenol			
2,4-Dinitrotoluene			
2,6-Dichlorophenol			
2,6-Dinitrotoluene			
2-Acetylaminofluorene			
2-Butanone	<10	<10	<10
2-Chloronaphthalene			
2-Chlorophenol			
2-Hexanone	<5	<5	<5
2-Methylnaphthalene			
2-Methylphenol			
2-Naphthylamine			
2-Nitroaniline			
2-Nitrophenol			
3,3-Dichlorobenzidine			
3,3-Dimethylbenzidine			
3/4-Methylphenol			
3-Chloropropene			
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	<5	<5	<5
4-Nitroaniline			
4-Nitrophenol			
5-Nitro-o-toluidine			
7,12-Dimethylbenz [a] anthracene			
Acenaphthene			
Acenaphthylene			
Acetone	<10.00	<10.00	<10.00
Acetonitrile			
Acetophenone			
Acrolein			
Acrylonitrile	<5	<5	<5
Aldrin			
alpha-BHC			
alpha-Chlordane			
Anthracene			

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

Table 9

Analytical Data Summary for MW-39

Constituents	Units	8/21/2009	12/15/2009	2/18/2010	3/11/2010	5/27/2010	8/31/2010	11/4/2010	2/16/2011
Antimony	ug/L	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000
Arsenic	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Barium	ug/L	39.7	51.7	53.5	57.8 *	44.8	61.0	67.5	73.5
Benzene	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
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	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
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	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	ug/L	<1	<5	<1	<1	<4	<1	<1	<1
Bromoform	ug/L	<5	<20	<5	<5	<20	<5	<5	<5
Bromomethane	ug/L	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate	ug/L								
Cadmium	ug/L	1.980	.890	<.500	<.500	<.500	<.500	<.500	5.510
Carbon Disulfide	ug/L	<1	<5	<1	<1	<4	<4	<1	<1
Carbon Tetrachloride	ug/L	<2	<5	<2	<2	<4	<5	<2	<2
Chlordane	ug/L								
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	ug/L								
Chlorodibromomethane	ug/L	<5	<5	<5	<5	<5	<10	<5	<5
Chloroethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene	ug/L								
Chromium	ug/L	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Chrysene	ug/L								
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5	<10	<5	<5
Cobalt	ug/L	<20.000	<20.000	<20.000	<1.550	<1.550	<1.550	<1.550	<1.550
Copper	ug/L	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Cyanide	mg/L								
delta-BHC	ug/L								
Diallate [cis or trans]	ug/L								
Dibenz [a,h] anthracene	ug/L								
Dibenzofuran	ug/L								
Dichlorodifluoromethane	ug/L								
Dieldrin	ug/L								
Diethyl phthalate	ug/L								
Dimethoate	ug/L								
Dimethyl phthalate	ug/L								
Dimethylaminoazobenzene	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	<2	<1	<1	<1	<1	<1	<1
Famphur	ug/L								
Fluoranthene	ug/L								
Fluorene	ug/L								
gamma-BHC [Lindane]	ug/L								
gamma-Chlordane	ug/L								
Heptachlor	ug/L								
Heptachlor Epoxide	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorobutadiene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Hexachloropropene	ug/L								
Indeno [1,2,3-cd] pyrene	ug/L								
Iodomethane	ug/L	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Isobutanol	ug/L								

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

Table 9

Analytical Data Summary for MW-39

Constituents	7/7/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	10/3/2013	4/22/2014	10/14/2014	5/12/2015
Antimony	<6.000	<6.000	<6.000	<6.000	<6.000	<1.130	<6.000	<6.000	<.361
Arsenic	<1.000	<1.000	8.000	<1.000	<1.000	<.211	<1.000	<1.000	<2.000
Barium	72.5	73.4	331.0	88.1	94.1	79.1	81.9	81.6	79.8
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Benzo [a] anthracene	<10.0			<10.0					
Benzo [a] pyrene	<10.0			<10.0					
Benzo [b] fluoranthene	<10.0			<10.0					
Benzo [g,h,i] perylene	<10.0			<10.0					
Benzo [k] fluoranthene	<10.0			<10.0					
Benzyl alcohol	<10.0			<10.0					
Beryllium	<1.000	<1.000	<4.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.073
beta-BHC	<.0320			<.0320					
Bis[2-chloroethoxy]methane	<10.0			<10.0					
Bis[2-chloroethyl]ether	<10.0			<10.0					
Bis[2-chloroisopropyl]ether	<10.0			<10.0					
Bis[2-ethylhexyl]phthalate	<10.00			<10.00					
Bromochloromethane	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Bromodichloromethane	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1
Bromoform	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Bromomethane	<4.000	<20.000	<50.000	<5.000	<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate	<10.0			<10.0					
Cadmium	<.500	1.800	1.300	<.500	1.130	<.500	<.096	<.500	<.500
Carbon Disulfide	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
Carbon Tetrachloride	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Chlordane	<2.00			<2.00					
Chlorobenzene	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
Chlorobenzilate	<10.0			<10.0					
Chlorodibromomethane	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Chloroethane	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
Chloroform	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1
Chloromethane	<.3	<.3	<.3	<.3	<.3	<.3	<.3	<.3	<.3
Chloroprene	<.1			<.1					
Chromium	<20.00	<20.00	<20.00	<20.00	<20.00	<3.63	<3.91	<20.00	<2.33
Chrysene	<10.0			<10.0					
cis-1,2-Dichloroethene	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
cis-1,3-Dichloropropene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Cobalt	<1.550	<1.550	15.600	<1.550	<1.320	<1.320	<2.410	<2.410	<.205
Copper	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<.97
Cyanide	<.01			<.01					
delta-BHC	<.0320			<.0320					
Diallate [cis or trans]	<10.0			<10.0					
Dibenz [a,h] anthracene	<10.0			<10.0					
Dibenzofuran	<10.0			<10.0					
Dichlorodifluoromethane	<.3			<.3					
Dieldrin	<.0320			<.0320					
Diethyl phthalate	<10.0			<10.0					
Dimethoate	<10.0			<10.0					
Dimethyl phthalate	<10.0			<10.0					
Dimethylaminoazobenzene	<10.0			<10.0					
Di-n-butyl phthalate	<10.0			<10.0					
Di-n-octyl phthalate	<10			<10					
Dinoseb	<10.0			<10.0					
Diphenylamine	<10.0			<10.0					
Disulfoton	<10.0			<10.0					
Endosulfan I	<.0320			<.0320					
Endosulfan II	<.0320			<.0320					
Endosulfan sulfate	<.0320			<.0320					
Endrin	<.0320			<.0320					
Endrin aldehyde	<.0320			<.0320					
Ethyl Methacrylate	<.2			<.2					
Ethyl Methanesulfonate	<10.0			<10.0					
Ethylbenzene	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
Famphur	<20			<20					
Fluoranthene	<10.0			<10.0					
Fluorene	<10.0			<10.0					
gamma-BHC [Lindane]	<.0320			<.0320					
gamma-Chlordane				<.032					
Heptachlor	<.0320			<.0320					
Heptachlor Epoxide	<.0320			<.0320					
Hexachlorobenzene	<10.0			<10.0					
Hexachlorobutadiene	<10.0			<10.0					
Hexachlorocyclopentadiene	<10			<10					
Hexachloroethane	<10.0			<10.0					
Hexachloropropene	<10.0			<10.0					
Indeno [1,2,3-cd] pyrene	<10.0			<10.0					
Iodomethane	<20.00	<20.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Isobutanol	<10000			<10000					

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

Table 9

Analytical Data Summary for MW-39

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/27/2018	3/18/2019	12/2/2019
Antimony	<1.000	<.367 *	<1.000	<1.000	<.602 *	<3.000	<1.000	<1.000	<1.000
Arsenic	<2.000	<2.000	<2.000	<2.000	<2.000	1.470	<2.000	<2.000	<2.000
Barium	79.2	86.3 *	86.1	93.4	78.7 *	90.7	92.5 *	107.0	85.9
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Benzo [a] anthracene				<11.5					
Benzo [a] pyrene				<11.5					
Benzo [b] fluoranthene				<11.5					
Benzo [g,h,i] perylene				<11.5					
Benzo [k] fluoranthene				<11.5					
Benzyl alcohol				<11.5					
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC				<.0320					
Bis[2-chloroethoxy]methane				<11.5					
Bis[2-chloroethyl]ether				<11.5					
Bis[2-chloroisopropyl]ether				<11.5					
Bis[2-ethylhexyl]phthalate				<2.15					
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4.000	<4.000	<4.000	<.239	<.318 *	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate				<11.5					
Cadmium	<.500	<.500	<.500	<.070	<.090 *	<.173	<.500	<.500	<.100
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane				<2.00					
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate				<11.5					
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	<1	<1	<1	<1	<1	<3	<3	<3	<3
Chloromethane	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene				<1					
Chromium	<1.72	<2.63 *	<1.77	<3.14	<2.40	5.28	<2.65 *	<3.16	<2.39
Chrysene				<11.5					
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	<.500	<.500	<.500	<.500	<.500	<1.000	<.500	<.500	<.500
Copper	<2.00	<2.00	<5.00	<5.00	<5.00	<1.08	<5.00	<5.00	<5.00
Cyanide				<.01					
delta-BHC				<.0320					
Diallate [cis or trans]				<11.5					
Dibenz [a,h] anthracene				<11.5					
Dibenzofuran				<11.5					
Dichlorodifluoromethane				<3					
Dieldrin				<.0320					
Diethyl phthalate				<11.5					
Dimethoate				<11.5					
Dimethyl phthalate				<11.5					
Dimethylaminoazobenzene				<11.5					
Di-n-butyl phthalate				<11.5					
Di-n-octyl phthalate				<23					
Dinoseb				<11.5					
Diphenylamine				<11.5					
Disulfoton				<11.5					
Endosulfan I				<.0320					
Endosulfan II				<.0320					
Endosulfan sulfate				<.0320					
Endrin				<.0320					
Endrin aldehyde				<.0320					
Ethyl Methacrylate				<2					
Ethyl Methanesulfonate				<11.5					
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur				<23					
Fluoranthene				<11.5					
Fluorene				<11.5					
gamma-BHC [Lindane]				<.0320					
gamma-Chlordane									
Heptachlor				<.0320					
Heptachlor Epoxide				<.0320					
Hexachlorobenzene				<11.5					
Hexachlorobutadiene				<11.5					
Hexachlorocyclopentadiene				<23					
Hexachloroethane				<11.5					
Hexachloropropene				<11.5					
Indeno [1,2,3-cd] pyrene				<11.5					
Iodomethane	<10.00	<7.94 *	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Isobutanol				<10000					

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

Table 9

Analytical Data Summary for MW-39

Constituents	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024
Antimony	<1.000	<.822 *	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arsenic	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<1.505 *	<2.000
Barium	98.9	82.5 *	107.0	84.5	97.5 *	87.7	94.9	89.3 *	83.3
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Benzo [a] anthracene					<10.0				
Benzo [a] pyrene					<10.0				
Benzo [b] fluoranthene					<10.0				
Benzo [g,h,i] perylene					<10.0				
Benzo [k] fluoranthene					<10.0				
Benzyl alcohol					<10.0				
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.682 *	<1.000
beta-BHC					<.0696				
Bis[2-chloroethoxy]methane					<10.0				
Bis[2-chloroethyl]ether					<10.0				
Bis[2-chloroisopropyl]ether					<10.0				
Bis[2-ethylhexyl]phthalate					<10.00				
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate					<10.0				
Cadmium	<.100	<.100	<.100	<.100	<.100	<.055	.129	.260 *	<.200
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane					<2.17				
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate					<10.0				
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene					<1				
Chromium	<2.53	<2.53 *	<2.66	<1.59	<2.63 *	<1.34	<2.15	<2.14 *	<1.44
Chrysene					<10.0				
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<.404 *	<.500
Copper	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cyanide					<.01				
delta-BHC					<.0696				
Diallate [cis or trans]					<10.0				
Dibenz [a,h] anthracene					<10.0				
Dibenzofuran					<10.0				
Dichlorodifluoromethane					<3				
Dieldrin					<.0696				
Diethyl phthalate					<10.0				
Dimethoate					<10.0				
Dimethyl phthalate					<10.0				
Dimethylaminoazobenzene					<10.0				
Di-n-butyl phthalate					<10.0				
Di-n-octyl phthalate					<20				
Dinoseb					<10.0				
Diphenylamine					<10.0				
Disulfoton					<10.0				
Endosulfan I					<.0696				
Endosulfan II					<.0696				
Endosulfan sulfate					<.0696				
Endrin					<.0696				
Endrin aldehyde					<.0696				
Ethyl Methacrylate					<2				
Ethyl Methanesulfonate					<10.0				
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur					<10				
Fluoranthene					<10.0				
Fluorene					<10.0				
gamma-BHC [Lindane]					<.0696				
gamma-Chlordane									
Heptachlor					<.0696				
Heptachlor Epoxide					<.0696				
Hexachlorobenzene					<10.0				
Hexachlorobutadiene					<10.0				
Hexachlorocyclopentadiene					<10				
Hexachloroethane					<10.0				
Hexachloropropene					<10.0				
Indeno [1,2,3-cd] pyrene					<10.0				
Iodmethane	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Isobutanol					<10000				

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

Table 9

Analytical Data Summary for MW-39

Constituents	10/15/2024	4/16/2025	10/27/2025
Antimony	<2.000	<1.000	<1.000
Arsenic	<4.000	<2.000	<2.000
Barium	93.1	95.8	97.5
Benzene	<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	<4.000	<.500	<.500
beta-BHC			
Bis[2-chloroethoxy]methane			
Bis[2-chloroethyl]ether			
Bis[2-chloroisopropyl]ether			
Bis[2-ethylhexyl]phthalate			
Bromochloromethane	<1	<1	<1
Bromodichloromethane	<1	<1	<1
Bromoform	<1	<1	<1
Bromomethane	<1.000	<1.000	<1.000
Butyl benzyl phthalate			
Cadmium	<.800	<.200	<.200
Carbon Disulfide	<1	<1	<1
Carbon Tetrachloride	<1	<1	<1
Chlordane			
Chlorobenzene	<1	<1	<1
Chlorobenzilate			
Chlorodibromomethane	<1	<1	<1
Chloroethane	<1	<1	<1
Chloroform	<1	<1	<1
Chloromethane	<1	<1	<1
Chloroprene			
Chromium	<8.00	1.80	2.10
Chrysene			
cis-1,2-Dichloroethene	<1	<1	<1
cis-1,3-Dichloropropene	<1	<1	<1
Cobalt	<.400	<.500	<.500
Copper	<4.00	<5.00	<5.00
Cyanide			
delta-BHC			
Diallate [cis or trans]			
Dibenz [a,h] anthracene			
Dibenzofuran			
Dichlorodifluoromethane			
Dieldrin			
Diethyl phthalate			
Dimethoate			
Dimethyl phthalate			
Dimethylaminoazobenzene			
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
Famphur			
Fluoranthene			
Fluorene			
gamma-BHC [Lindane]			
gamma-Chlordane			
Heptachlor			
Heptachlor Epoxide			
Hexachlorobenzene			
Hexachlorobutadiene			
Hexachlorocyclopentadiene			
Hexachloroethane			
Hexachloropropene			
Indeno [1,2,3-cd] pyrene			
Iodomethane	<1.00	<1.00	<1.00
Isobutanol			

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

Table 9

Analytical Data Summary for MW-39

Constituents	Units	8/21/2009	12/15/2009	2/18/2010	3/11/2010	5/27/2010	8/31/2010	11/4/2010	2/16/2011
Isodrin	ug/L								
Isophorone	ug/L								
Isosafrole	ug/L								
Kepone	ug/L								
Lead	ug/L	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
MP-Xylene	ug/L								
Mercury	ug/L								
Methacrylonitrile	ug/L								
Methapyrilene	ug/L								
Methoxychlor	ug/L								
Methyl Methacrylate	ug/L								
Methyl Methanesulfonate	ug/L								
Methylene Bromide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	ug/L	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene	ug/L								
Nickel	ug/L	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000
Nitrobenzene	ug/L								
N-Nitrosodiethylamine	ug/L								
N-Nitrosodimethylamine	ug/L								
N-Nitrosodi-n-butylamine	ug/L								
N-Nitrosodi-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								
o-Xylene	ug/L								
Parathion-Ethyl	ug/L								
Parathion-Methyl	ug/L								
PCB-1016	ug/L								
PCB-1221	ug/L								
PCB-1232	ug/L								
PCB-1242	ug/L								
PCB-1248	ug/L								
PCB-1254	ug/L								
PCB-1260	ug/L								
Pentachlorobenzene	ug/L								
Pentachloronitrobenzene	ug/L								
Pentachlorophenol [2C]	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	ug/L	83.7	164.0	78.4	81.0 *	73.7	82.4	72.1	74.3
Silver	ug/L	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Styrene	ug/L	<1	<5	<2	<1	<4	<4	<1	<1
Sulfide	mg/L								
Tetrachloroethene	ug/L	<1	<1	<2	<1	<1	<1	<1	<1
Thallium	ug/L	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Thionazin	ug/L								
Tin	ug/L								
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Total Suspended Solids	mg/L								
Toxaphene	ug/L								
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5	<10	<5	<5
trans-1,4-Dichloro-2-Butene	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	ug/L	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000
Vinyl Acetate	ug/L	<2	<2	<2	<2	<2	<2	<2	<4
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<3.000	<9.000	<3.000	<3.000	<12.000	<3.000	<3.000	<3.000
Zinc	ug/L	37.8	33.4	33.9	34.0 *	<20.0	24.8	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW-39

Constituents	7/7/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	10/3/2013	4/22/2014	10/14/2014	5/12/2015
Isodrin	<10.0			<10.0					
Isophorone	<10.0			<10.0					
Isosafrole	<10.0			<10.0					
Kepone	<10.0			<10.0					
Lead	<4.000	<4.000	11.500	<4.000	<4.000	<4.000	<4.000	<4.000	.777
MP-Xylene				<2	<2				
Mercury	<.200			<.267					
Methacrylonitrile	<1			<2					
Methapyriline	<10.0			<10.0					
Methoxychlor	<.0320			<.0320					
Methyl Methacrylate	<2			<2					
Methyl Methanesulfonate	<10.0			<10.0					
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene	<5			<5					
Nickel	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<8.180	<5.000
Nitrobenzene	<10.0			<10.0					
N-Nitrosodiethylamine	<10.0			<10.0					
N-Nitrosodimethylamine	<10.0			<10.0					
N-Nitrosodi-n-butylamine	<10.0			<10.0					
N-Nitrosodi-n-propylamine	<10.0			<10.0					
N-Nitrosodiphenylamine	<10.0			<10.0					
N-Nitrosomethylethylamine	<10.0			<10.0					
N-Nitrosopiperidine	<10.0			<10.0					
N-Nitrosopyrrolidine	<10.0			<10.0					
O,O,O-Triethyl Phosphorothioate	<10.0			<10.0					
o-Toluidine	<10.0			<10.0					
o-Xylene				<1	<1				
Parathion-Ethyl	<10.0			<10.0					
Parathion-Methyl	<10.0			<10.0					
PCB-1016	<.80			<.80					
PCB-1221	<.80			<.80					
PCB-1232	<.80			<.80					
PCB-1242	<.80			<.80					
PCB-1248	<.80			<.80					
PCB-1254	<.80			<.80					
PCB-1260	<.80			<.80					
Pentachlorobenzene	<10.0			<10.0					
Pentachloronitrobenzene	<10.0			<10.0					
Pentachlorophenol [2C]	<10.0			<10.0					
Phenacetin	<10.0			<10.0					
Phenanthrene	<10.0			<10.0					
Phenol	<10.0			<10.0					
Phorate	<10.0			<10.0					
Pronamide	<10.0			<10.0					
Propionitrile	<10			<10					
Pyrene	<10.0			<10.0					
Safrole	<10.0			<10.0					
Selenium	81.3	97.3	5.9	85.8	42.4	57.6	71.3	66.8	73.2
Silver	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<1.000
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide	<.12			<.23					
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00
Thionazin	<10.0			<10.0					
Tin	<100			<100					
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Suspended Solids							32.300	23.600	11.500
Toxaphene	<2.00			<2.00					
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<10	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<.911
Vinyl Acetate	<2	<2	<5	<2	<2	<2	<2	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000
Zinc	<20.0	<20.0	31.7	<20.0	37.4	90.4	<20.0	<20.0	<10.0

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

Table 9

Analytical Data Summary for MW-39

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/27/2018	3/18/2019	12/2/2019
Isodrin				<11.5					
Isophorone				<11.5					
Isosafrole				<11.5					
Kepone				<11.5					
Lead	<.124	<.500	<.500	<.500	<.500	<.299	<.500	<.500	<.500
MP-Xylene									
Mercury				<.200					
Methacrylonitrile				<10					
Methapyrilene				<11.5					
Methoxychlor				<.0320					
Methyl Methacrylate				<2					
Methyl Methanesulfonate				<11.5					
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5.000	<2.620 *	<.325	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene				<5					
Nickel	<5.000	<5.000	<5.000	<5.000	<5.000	<.868	<5.000	<5.000	<5.000
Nitrobenzene				<11.5					
N-Nitrosodiethylamine				<11.5					
N-Nitrosodimethylamine				<11.5					
N-Nitrosodi-n-butylamine				<11.5					
N-Nitrosodi-n-propylamine				<11.5					
N-Nitrosodiphenylamine				<11.5					
N-Nitrosomethylethylamine				<11.5					
N-Nitrosopiperidine				<11.5					
N-Nitrosopyrrolidine				<11.5					
O,O,O-Triethyl Phosphorothioate				<11.5					
o-Toluidine				<11.5					
o-Xylene									
Parathion-Ethyl				<11.5					
Parathion-Methyl				<11.5					
PCB-1016				<.87					
PCB-1221				<.87					
PCB-1232				<.87					
PCB-1242				<.87					
PCB-1248				<.87					
PCB-1254				<.87					
PCB-1260				<.87					
Pentachlorobenzene				<11.5					
Pentachloronitrobenzene				<11.5					
Pentachlorophenol [2C]				<11.5					
Phenacetin				<11.5					
Phenanthrene				<11.5					
Phenol				<11.5					
Phorate				<11.5					
Pronamide				<11.5					
Propionitrile				<10					
Pyrene				<11.5					
Safrole				<11.5					
Selenium	73.4	74.9	70.4	77.2	71.9 *	74.5	76.0 *	76.4	74.8
Silver	<1.000	<.532 *	<1.000	<1.000	<1.000	<.500	<1.000	<1.000	<1.000
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide				<1.00					
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00
Thionazin				<11.5					
Tin				<5					
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Suspended Solids	<1.500	1.565 *	<.875	<1.000	4.125 *	<1.000	<1.880	<.750	<.875
Toxaphene				<2.00					
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<.819	<.793 *	<.802	<.986	<5.000	<3.890	<.881 *	<1.040	<5.000
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000
Zinc	<10.0	<10.0	<10.0	<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-39

Constituents	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024
Isodrin					<10.0				
Isophorone					<10.0				
Isosafrole					<10.0				
Kepone					<10.0				
Lead	<.500	<.500	<.500	<.500	<.500	<.500	<.500	.611 *	<.500
MP-Xylene									
Mercury					<.200				
Methacrylonitrile					<10				
Methapyrilene					<10.0				
Methoxychlor					<.0696				
Methyl Methacrylate					<2				
Methyl Methanesulfonate					<10.0				
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<10.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene					<5				
Nickel	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Nitrobenzene					<10.0				
N-Nitrosodiethylamine					<10.0				
N-Nitrosodimethylamine					<10.0				
N-Nitrosodi-n-butylamine					<10.0				
N-Nitrosodi-n-propylamine					<10.0				
N-Nitrosodiphenylamine					<10.0				
N-Nitrosomethylethylamine					<10.0				
N-Nitrosopiperidine					<10.0				
N-Nitrosopyrrolidine					<10.0				
O,O,O-Triethyl Phosphorothioate					<10.0				
o-Toluidine					<10.0				
o-Xylene									
Parathion-Ethyl					<10.0				
Parathion-Methyl					<10.0				
PCB-1016					<.87				
PCB-1221					<.87				
PCB-1232					<.87				
PCB-1242					<.87				
PCB-1248					<.87				
PCB-1254					<.87				
PCB-1260					<.87				
Pentachlorobenzene					<10.0				
Pentachloronitrobenzene					<10.0				
Pentachlorophenol [2C]					<10.0				
Phenacetin					<10.0				
Phenanthrene					<10.0				
Phenol					<10.0				
Phorate					<10.0				
Pronamide					<10.0				
Propionitrile					<10				
Pyrene					<10.0				
Safrole					<10.0				
Selenium	73.1	71.3 *	80.1	74.6	79.1 *	79.9	79.4	75.1 *	71.4
Silver	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide					<1.00				
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	3.32 *	<1.00
Thionazin					<10.0				
Tin					<5				
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Suspended Solids	<1.880	<1.880	<1.000	<1.880	<1.440 *	<1.880	<.875	<1.565 *	<1.880
Toxaphene					<2.17				
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<5.000	<1.151 *	<5.000	<5.000	<5.000	<5.000	<5.000	3.810 *	<5.000
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.000	<3.000	<.969	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000
Zinc	<20.0	<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-39

Constituents	10/15/2024	4/16/2025	10/27/2025
Isodrin			
Isophorone			
Isosafrole			
Kepone			
Lead	<4.000	<1.000	<1.000
MP-Xylene			
Mercury			
Methacrylonitrile			
Methapyrilene			
Methoxychlor			
Methyl Methacrylate			
Methyl Methanesulfonate			
Methylene Bromide	<1	<1	<1
Methylene Chloride	<5.000	<5.000	<5.000
Naphthalene			
Nickel	<4.000	<5.000	<5.000
Nitrobenzene			
N-Nitrosodiethylamine			
N-Nitrosodimethylamine			
N-Nitrosodi-n-butylamine			
N-Nitrosodi-n-propylamine			
N-Nitrosodiphenylamine			
N-Nitrosomethylethylamine			
N-Nitrosopiperidine			
N-Nitrosopyrrolidine			
O,O,O-Triethyl Phosphorothioate			
o-Toluidine			
o-Xylene			
Parathion-Ethyl			
Parathion-Methyl			
PCB-1016			
PCB-1221			
PCB-1232			
PCB-1242			
PCB-1248			
PCB-1254			
PCB-1260			
Pentachlorobenzene			
Pentachloronitrobenzene			
Pentachlorophenol [2C]			
Phenacetin			
Phenanthrene			
Phenol			
Phorate			
Pronamide			
Propionitrile			
Pyrene			
Safrole			
Selenium	63.6	71.5	71.5
Silver	<4.000	<5.000	<5.000
Styrene	<1	<1	<1
Sulfide			
Tetrachloroethene	<1	<1	<1
Thallium	<2.00	<.50	<.50
Thionazin			
Tin			
Toluene	<1	<1	<1
Total Suspended Solids			
Toxaphene			
trans-1,2-Dichloroethene	<1	<1	<1
trans-1,3-Dichloropropene	<1	<1	<1
trans-1,4-Dichloro-2-Butene	<5	<5	<5
Trichloroethene	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1
Vanadium	<20.000	<2.000	<2.000
Vinyl Acetate	<5	<5	<5
Vinyl Chloride	<1	<1	<1
Xylenes, total	<2.000	<2.000	<2.000
Zinc	<20.0	<5.0	<5.0

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

Table 9**Analytical Data Summary for MW-40**

Constituents	Units	4/16/2025	10/27/2025
Antimony	ug/L	<1	<1
Arsenic	ug/L	<2	<2
Barium	ug/L	607	100
Beryllium	ug/L	2.2	<.5
Cadmium	ug/L	4.3	<.2
Chromium	ug/L	39.8	2.2
Cobalt	ug/L	61.9	1.4
Copper	ug/L	57.8	<5.0
Lead	ug/L	52.5	<1.0
Nickel	ug/L	67	<5
Selenium	ug/L	<2.0	3.4
Silver	ug/L	<5	<5
Thallium	ug/L	.7	<.5
Vanadium	ug/L	66.8	<2.0
Zinc	ug/L	95.1	<5.0

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

Table 9**Analytical Data Summary for MW-41**

Constituents	Units	4/16/2025	10/27/2025
Antimony	ug/L	<1	<1
Arsenic	ug/L	<2	<2
Barium	ug/L	223	218
Beryllium	ug/L	<.5	<.5
Cadmium	ug/L	.3	<.2
Chromium	ug/L	1.0	1.1
Cobalt	ug/L	<.5	<.5
Copper	ug/L	<5	<5
Lead	ug/L	<1	<1
Nickel	ug/L	<5	<5
Selenium	ug/L	<2	<2
Silver	ug/L	<5	<5
Thallium	ug/L	<.5	<.5
Vanadium	ug/L	<2	<2
Zinc	ug/L	<5	<5

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

Table 9

Analytical Data Summary for MW-43

Constituents	Units	5/15/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017
1,1,1,2-Tetrachloroethane	ug/L								
1,1,1-Trichloroethane	ug/L								
1,1,2,2-Tetrachloroethane	ug/L								
1,1,2-Trichloroethane	ug/L								
1,1-Dichloroethane	ug/L								
1,1-Dichloroethene	ug/L								
1,1-Dichloropropene	ug/L								
1,2,3-Trichloropropene	ug/L								
1,2,4,5-Tetrachlorobenzene	ug/L								
1,2,4-Trichlorobenzene	ug/L								
1,2-Dibromo-3-Chloropropane	ug/L								
1,2-Dibromoethane	ug/L								
1,2-Dichlorobenzene	ug/L								
1,2-Dichloroethane	ug/L								
1,2-Dichloropropane	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								
1,4-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 [2C]	ug/L								
2,4,5-TP [Silvex] [2C]	ug/L								
2,4,5-Trichlorophenol	ug/L								
2,4,6-Trichlorophenol	ug/L								
2,4-D [2C]	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	ug/L								
2-Chloronaphthalene	ug/L								
2-Chlorophenol	ug/L								
2-Hexanone	ug/L								
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								
3/4-Methylphenol	ug/L								
3-Chloropropene	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	ug/L								
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								
Acetonitrile	ug/L								
Acetophenone	ug/L								
Acrolein	ug/L								
Acrylonitrile	ug/L								
Aldrin	ug/L								
alpha-BHC	ug/L								
Anthracene	ug/L								
Antimony	ug/L								

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

Table 9

Analytical Data Summary for MW-43

Constituents	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021
1,1,1,2-Tetrachloroethane									
1,1,1-Trichloroethane									
1,1,2,2-Tetrachloroethane									
1,1,2-Trichloroethane									
1,1-Dichloroethane									
1,1-Dichloroethene									
1,1-Dichloropropene									
1,2,3-Trichloropropene									
1,2,4,5-Tetrachlorobenzene									
1,2,4-Trichlorobenzene									
1,2-Dibromo-3-Chloropropane									
1,2-Dibromoethane									
1,2-Dichlorobenzene									
1,2-Dichloroethane									
1,2-Dichloropropene									
1,3,5-Trinitrobenzene									
1,3-Dichlorobenzene									
1,3-Dichloropropene									
1,3-Dinitrobenzene									
1,4-Dichlorobenzene									
1,4-Naphthoquinone									
1,4-Phenylenediamine									
1-Naphthylamine									
2,2-Dichloropropene									
2,3,4,6-Tetrachlorophenol									
2,4,5-T [2C]									
2,4,5-TP [Silvex] [2C]									
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol									
2,4-D [2C]									
2,4-Dichlorophenol									
2,4-Dimethylphenol									
2,4-Dinitrophenol									
2,4-Dinitrotoluene									
2,6-Dichlorophenol									
2,6-Dinitrotoluene									
2-Acetylaminofluorene									
2-Butanone									
2-Chloronaphthalene									
2-Chlorophenol									
2-Hexanone									
2-Methylnaphthalene									
2-Methylphenol									
2-Naphthylamine									
2-Nitroaniline									
2-Nitrophenol									
3,3-Dichlorobenzidine									
3,3-Dimethylbenzidine									
3/4-Methylphenol									
3-Chloropropene									
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									
4-Nitroaniline									
4-Nitrophenol									
5-Nitro-o-toluidine									
7,12-Dimethylbenz [a] anthracene									
Acenaphthene									
Acenaphthylene									
Acetone									
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile									
Aldrin									
alpha-BHC									
Anthracene									
Antimony									

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

Table 9

Analytical Data Summary for MW-43

Constituents	4/6/2022	7/8/2022	8/23/2022	3/8/2023	7/21/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025
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-Dichloroethene	<2		<2	<2		<2	<2	<1	<1
1,1-Dichloropropene			<1						
1,2,3-Trichloropropane	<1		<1	<1		<1	<1	<1	<1
1,2,4,5-Tetrachlorobenzene			<10						
1,2,4-Trichlorobenzene			<5						
1,2-Dibromo-3-Chloropropane	<5		<5	<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
1,3,5-Trinitrobenzene			<10						
1,3-Dichlorobenzene			<1						
1,3-Dichloropropane			<1						
1,3-Dinitrobenzene			<10						
1,4-Dichlorobenzene	<1		<1	<1		<1	<1	<1	<1
1,4-Naphthoquinone			<10						
1,4-Phenylenediamine			<10						
1-Naphthylamine			<10						
2,2-Dichloropropane			<4						
2,3,4,6-Tetrachlorophenol			<10						
2,4,5-T [2C]			<5						
2,4,5-TP [Silvex] [2C]			<5						
2,4,5-Trichlorophenol			<10						
2,4,6-Trichlorophenol			<10						
2,4-D [2C]			<2						
2,4-Dichlorophenol			<10						
2,4-Dimethylphenol			<10						
2,4-Dinitrophenol			<20						
2,4-Dinitrotoluene			<10						
2,6-Dichlorophenol			<10						
2,6-Dinitrotoluene			<10						
2-Acetylaminofluorene			<10						
2-Butanone	<10		<10	<10		<10	<10	<10	<10
2-Chloronaphthalene			<10						
2-Chlorophenol			<10						
2-Hexanone	<10		<10	<10		<10	<10	<5	<5
2-Methylnaphthalene			<10						
2-Methylphenol			<10						
2-Naphthylamine			<10						
2-Nitroaniline			<10						
2-Nitrophenol			<10						
3,3-Dichlorobenzidine			<10						
3,3-Dimethylbenzidine			<10						
3/4-Methylphenol			<10						
3-Chloropropene			<2						
3-Methylcholanthrene			<10						
3-Nitroaniline			<10						
4,4'-DDD			<.064						
4,4'-DDE			<.064						
4,4'-DDT			<.064						
4,6-Dinitro-2-methylphenol			<10						
4-Aminobiphenyl			<10						
4-Bromophenyl phenyl ether			<10						
4-Chloro-3-methylphenol			<10						
4-Chloroaniline			<10						
4-Chlorophenyl phenyl ether			<10						
4-Methyl-2-Pentanone	<10		<10	<10		<10	<10	<5	<5
4-Nitroaniline			<10						
4-Nitrophenol			<10						
5-Nitro-o-toluidine			<10						
7,12-Dimethylbenz [a] anthracene			<10						
Acenaphthene			<10						
Acenaphthylene			<10						
Acetone	<10.00		<10.00	<10.00		<4.57	<10.00	<10.00	<10.00
Acetonitrile			<10000						
Acetophenone			<10						
Acrolein			<10						
Acrylonitrile	<5		<5	<5		<5	<5	<5	<5
Aldrin			<.064						
alpha-BHC			<.064						
Anthracene			<10						
Antimony	<2		<2	<2		<2	<2	<2	<1

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

Table 9

Analytical Data Summary for MW-43

Constituents	10/27/2025
1,1,1,2-Tetrachloroethane	<1
1,1,1-Trichloroethane	<1
1,1,2,2-Tetrachloroethane	<1
1,1,2-Trichloroethane	<1
1,1-Dichloroethane	<1
1,1-Dichloroethene	<1
1,1-Dichloropropene	
1,2,3-Trichloropropene	<1
1,2,4,5-Tetrachlorobenzene	
1,2,4-Trichlorobenzene	
1,2-Dibromo-3-Chloropropane	<5
1,2-Dibromoethane	<1
1,2-Dichlorobenzene	<1
1,2-Dichloroethane	<1
1,2-Dichloropropene	<1
1,3,5-Trinitrobenzene	
1,3-Dichlorobenzene	
1,3-Dichloropropene	
1,3-Dinitrobenzene	
1,4-Dichlorobenzene	<1
1,4-Naphthoquinone	
1,4-Phenylenediamine	
1-Naphthylamine	
2,2-Dichloropropene	
2,3,4,6-Tetrachlorophenol	
2,4,5-T [2C]	
2,4,5-TP [Silvex] [2C]	
2,4,5-Trichlorophenol	
2,4,6-Trichlorophenol	
2,4-D [2C]	
2,4-Dichlorophenol	
2,4-Dimethylphenol	
2,4-Dinitrophenol	
2,4-Dinitrotoluene	
2,6-Dichlorophenol	
2,6-Dinitrotoluene	
2-Acetylaminofluorene	
2-Butanone	<10
2-Chloronaphthalene	
2-Chlorophenol	
2-Hexanone	<5
2-Methylnaphthalene	
2-Methylphenol	
2-Naphthylamine	
2-Nitroaniline	
2-Nitrophenol	
3,3-Dichlorobenzidine	
3,3-Dimethylbenzidine	
3/4-Methylphenol	
3-Chloropropene	
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	<5
4-Nitroaniline	
4-Nitrophenol	
5-Nitro-o-toluidine	
7,12-Dimethylbenz [a] anthracene	
Acenaphthene	
Acenaphthylene	
Acetone	<10.00
Acetonitrile	
Acetophenone	
Acrolein	
Acrylonitrile	<5
Aldrin	
alpha-BHC	
Anthracene	
Antimony	<1

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

Table 9

Analytical Data Summary for MW-43

Constituents	Units	5/15/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017
Arsenic	ug/L								
Barium	ug/L								
Benzene	ug/L								
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	ug/L								
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								
Bromodichloromethane	ug/L								
Bromoform	ug/L								
Bromomethane	ug/L								
Butyl benzyl phthalate	ug/L								
Cadmium	ug/L								
Carbon Disulfide	ug/L								
Carbon Tetrachloride	ug/L								
Chlordane	ug/L								
Chlorobenzene	ug/L								
Chlorobenzilate	ug/L								
Chlorodibromomethane	ug/L								
Chloroethane	ug/L								
Chloroform	ug/L								
Chloromethane	ug/L								
Chloroprene	ug/L								
Chromium	ug/L								
Chrysene	ug/L								
cis-1,2-Dichloroethene	ug/L								
cis-1,3-Dichloropropene	ug/L								
Cobalt	ug/L	37.000				111.000	<.257	.703	<.114
Copper	ug/L								
Cyanide	mg/L								
delta-BHC	ug/L								
Diallate [cis or trans]	ug/L								
Dibenz [a,h] anthracene	ug/L								
Dibenzofuran	ug/L								
Dichlorodifluoromethane	ug/L								
Dieldrin	ug/L								
Diethyl phthalate	ug/L								
Dimethoate	ug/L								
Dimethyl phthalate	ug/L								
Dimethylaminoazobenzene	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								
Famphur	ug/L								
Fluoranthene	ug/L								
Fluorene	ug/L								
gamma-BHC [Lindane]	ug/L								
Heptachlor	ug/L								
Heptachlor Epoxide	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorobutadiene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Hexachloropropene	ug/L								
Indeno [1,2,3-cd] pyrene	ug/L								
Iodomethane	ug/L								
Isobutanol	ug/L								
Isodrin	ug/L								
Isophorone	ug/L								

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

Table 9

Analytical Data Summary for MW-43

Constituents	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021
Arsenic				<2.000	<1.260	<2.000	<1.040	<.768	<1.570
Barium									
Benzene									
Benzo [a] anthracene									
Benzo [a] pyrene									
Benzo [b] fluoranthene									
Benzo [g,h,i] perylene									
Benzo [k] fluoranthene									
Benzyl alcohol									
Beryllium									
beta-BHC									
Bis[2-chloroethoxy]methane									
Bis[2-chloroethyl]ether									
Bis[2-chloroisopropyl]ether									
Bis[2-ethylhexyl]phthalate									
Bromochloromethane									
Bromodichloromethane									
Bromoform									
Bromomethane									
Butyl benzyl phthalate									
Cadmium									
Carbon Disulfide									
Carbon Tetrachloride									
Chlordane									
Chlorobenzene									
Chlorobenzilate									
Chlorodibromomethane									
Chloroethane									
Chloroform									
Chloromethane									
Chloroprene									
Chromium									
Chrysene									
cis-1,2-Dichloroethene									
cis-1,3-Dichloropropene									
Cobalt	<.301	2.120	.723						
Copper									
Cyanide									
delta-BHC									
Diallate [cis or trans]									
Dibenz [a,h] anthracene									
Dibenzofuran									
Dichlorodifluoromethane									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethyl phthalate									
Dimethylaminoazobenzene									
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									
Famphur									
Fluoranthene									
Fluorene									
gamma-BHC [Lindane]									
Heptachlor									
Heptachlor Epoxide									
Hexachlorobenzene									
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno [1,2,3-cd] pyrene									
Iodomethane									
Isobutanol									
Isodrin									
Isophorone									

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

Table 9

Analytical Data Summary for MW-43

Constituents	4/6/2022	7/8/2022	8/23/2022	3/8/2023	7/21/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025
Arsenic	<2.000		<.904	<.814		2.420	<.867	<4.000	6.800
Barium	249		264	202		348	173	231	392
Benzene	<.5		<.5	<.5		<.5	<.5	<1.0	<1.0
Benzo [a] anthracene			<10						
Benzo [a] pyrene			<10						
Benzo [b] fluoranthene			<10						
Benzo [g,h,i] perylene			<10						
Benzo [k] fluoranthene			<10						
Benzyl alcohol			<10						
Beryllium	<1.0		<1.0	<1.0		<1.0	<1.0	<4.0	<.5
beta-BHC			<.064						
Bis[2-chloroethoxy]methane			<10						
Bis[2-chloroethyl]ether			<10						
Bis[2-chloroisopropyl]ether			<10						
Bis[2-ethylhexyl]phthalate			<10						
Bromochloromethane	<.5		<.5	<.5		<.5	<.5	<1	<1
Bromodichloromethane	<1		<1	<1		<1	<1	<1	<1
Bromoform	<.5		<.5	<.5		<.5	<.5	<1	<1
Bromomethane	<.4		<.4	<.4		<.4	<.4	<1	<1
Butyl benzyl phthalate			<10						
Cadmium	<.070		.129	<.065		.240	<.200	<.800	<.200
Carbon Disulfide	<1.000		<.553	<1.000		<1.000	<1.000	<1.000	<1.000
Carbon Tetrachloride	<2		<2	<2		<2	<2	<1	<1
Chlordane			<2						
Chlorobenzene	<1		<1	<1		<1	<1	<1	<1
Chlorobenzilate			<10						
Chlorodibromomethane	<.5		<.5	<.5		<.5	<.5	<1	<1
Chloroethane	<.4		<.4	<.4		<.4	<.4	<1	<1
Chloroform	<.3		<.3	<.3		<.3	<.3	<1	<1
Chloromethane	<.3		<.3	<.3		<.3	<.3	<1	<1
Chloroprene			<1						
Chromium	<5.0		<5.0	<5.0		<5.0	<5.0	<8.0	2.9
Chrysene			<10						
cis-1,2-Dichloroethene	<1		<1	<1		<1	<1	<1	<1
cis-1,3-Dichloropropene	<.5		<.5	<.5		<.5	<.5	<1	<1
Cobalt	<.500		.919	<.369		13.000	<.500	1.300	2.500
Copper	<.5		<.5	<.5		<.5	<.5	<.4	<.5
Cyanide			<.01						
delta-BHC			<.064						
Diallate [cis or trans]			<10						
Dibenz [a,h] anthracene			<10						
Dibenzofuran			<10						
Dichlorodifluoromethane			<.3						
Dieldrin			<.064						
Diethyl phthalate			<10						
Dimethoate			<10						
Dimethyl phthalate			<10						
Dimethylaminoazobenzene			<10						
Di-n-butyl phthalate			<10						
Di-n-octyl phthalate			<20						
Dinoseb			<10						
Diphenylamine			<10						
Disulfoton			<10						
Endosulfan I			<.064						
Endosulfan II			<.064						
Endosulfan sulfate			<.064						
Endrin			<.064						
Endrin aldehyde			<.064						
Ethyl Methacrylate			<.2						
Ethyl Methanesulfonate			<10						
Ethylbenzene	<1		<1	<1		<1	<1	<1	<1
Famphur			<10						
Fluoranthene			<10						
Fluorene			<10						
gamma-BHC [Lindane]			<.064						
Heptachlor			<.064						
Heptachlor Epoxide			<.064						
Hexachlorobenzene			<10						
Hexachlorobutadiene			<10						
Hexachlorocyclopentadiene			<10						
Hexachloroethane			<10						
Hexachloropropene			<10						
Indeno [1,2,3-cd] pyrene			<10						
Iodomethane	<10		<10	<10		<10	<10	<1	<1
Isobutanol			<10000						
Isodrin			<10						
Isophorone			<10						

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

Table 9

Analytical Data Summary for MW-43

Constituents	10/27/2025
Arsenic	2.400
Barium	319
Benzene	<1.0
Benzo [a] anthracene	
Benzo [a] pyrene	
Benzo [b] fluoranthene	
Benzo [g,h,i] perylene	
Benzo [k] fluoranthene	
Benzyl alcohol	
Beryllium	<.5
beta-BHC	
Bis[2-chloroethoxy]methane	
Bis[2-chloroethyl]ether	
Bis[2-chloroisopropyl]ether	
Bis[2-ethylhexyl]phthalate	
Bromochloromethane	<1
Bromodichloromethane	<1
Bromoform	<1
Bromomethane	<1
Butyl benzyl phthalate	
Cadmium	.200
Carbon Disulfide	<1.000
Carbon Tetrachloride	<1
Chlordane	
Chlorobenzene	<1
Chlorobenzilate	
Chlorodibromomethane	<1
Chloroethane	<1
Chloroform	<1
Chloromethane	<1
Chloroprene	
Chromium	1.1
Chrysene	
cis-1,2-Dichloroethene	<1
cis-1,3-Dichloropropene	<1
Cobalt	4.300
Copper	<5
Cyanide	
delta-BHC	
Diallate [cis or trans]	
Dibenz [a,h] anthracene	
Dibenzofuran	
Dichlorodifluoromethane	
Dieldrin	
Diethyl phthalate	
Dimethoate	
Dimethyl phthalate	
Dimethylaminoazobenzene	
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
Famphur	
Fluoranthene	
Fluorene	
gamma-BHC [Lindane]	
Heptachlor	
Heptachlor Epoxide	
Hexachlorobenzene	
Hexachlorobutadiene	
Hexachlorocyclopentadiene	
Hexachloroethane	
Hexachloropropene	
Indeno [1,2,3-cd] pyrene	
Iodomethane	<1
Isobutanol	
Isodrin	
Isophorone	

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

Table 9

Analytical Data Summary for MW-43

Constituents	Units	5/15/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017
Isosafrole	ug/L								
Kepone	ug/L								
Lead	ug/L								
Mercury	ug/L								
Methacrylonitrile	ug/L								
Methapyrilene	ug/L								
Methoxychlor	ug/L								
Methyl Methacrylate	ug/L								
Methyl Methanesulfonate	ug/L								
Methylene Bromide	ug/L								
Methylene Chloride	ug/L								
Naphthalene	ug/L								
Nickel	ug/L								
Nitrobenzene	ug/L								
N-Nitrosodiethylamine	ug/L								
N-Nitrosodimethylamine	ug/L								
N-Nitrosodi-n-butylamine	ug/L								
N-Nitrosodi-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-Ethyl	ug/L								
Parathion-Methyl	ug/L								
PCB-1016	ug/L								
PCB-1221	ug/L								
PCB-1232	ug/L								
PCB-1242	ug/L								
PCB-1248	ug/L								
PCB-1254	ug/L								
PCB-1260	ug/L								
Pentachlorobenzene	ug/L								
Pentachloronitrobenzene	ug/L								
Pentachlorophenol [2C]	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	ug/L								
Silver	ug/L								
Styrene	ug/L								
Sulfide	mg/L	<1							
Tetrachloroethene	ug/L								
Thallium	ug/L								
Thionazin	ug/L								
Tin	ug/L								
Toluene	ug/L								
Total Suspended Solids	mg/L		142000.000	497.000	514.000	15300.000	25.800	6.500	<.875
Toxaphene	ug/L								
trans-1,2-Dichloroethene	ug/L								
trans-1,3-Dichloropropene	ug/L								
trans-1,4-Dichloro-2-Butene	ug/L								
Trichloroethene	ug/L								
Trichlorofluoromethane	ug/L								
Vanadium	ug/L								
Vinyl Acetate	ug/L								
Vinyl Chloride	ug/L								
Xylenes, total	ug/L								
Zinc	ug/L								

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

Table 9

Analytical Data Summary for MW-43

Constituents	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021
Isosafrole									
Kepone									
Lead									
Mercury									
Methacrylonitrile									
Methapyrilene									
Methoxychlor									
Methyl Methacrylate									
Methyl Methanesulfonate									
Methylene Bromide									
Methylene Chloride									
Naphthalene									
Nickel									
Nitrobenzene									
N-Nitrosodiethylamine									
N-Nitrosodimethylamine									
N-Nitrosodi-n-butylamine									
N-Nitrosodi-n-propylamine									
N-Nitrosodiphenylamine									
N-Nitrosomethylethylamine									
N-Nitrosopiperidine									
N-Nitrosopyrrolidine									
O,O,O-Triethyl Phosphorothioate									
o-Toluidine									
Parathion-Ethyl									
Parathion-Methyl									
PCB-1016									
PCB-1221									
PCB-1232									
PCB-1242									
PCB-1248									
PCB-1254									
PCB-1260									
Pentachlorobenzene									
Pentachloronitrobenzene									
Pentachlorophenol [2C]									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Pronamide									
Propionitrile									
Pyrene									
Safrole									
Selenium									
Silver									
Styrene									
Sulfide									
Tetrachloroethene									
Thallium									
Thionazin									
Tin									
Toluene									
Total Suspended Solids	10.600	35.800	6.750	<1.880	4.250	<1.880	5.630	<1.250	29.300
Toxaphene									
trans-1,2-Dichloroethene									
trans-1,3-Dichloropropene									
trans-1,4-Dichloro-2-Butene									
Trichloroethene									
Trichlorofluoromethane									
Vanadium									
Vinyl Acetate									
Vinyl Chloride									
Xylenes, total									
Zinc									

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

Table 9

Analytical Data Summary for MW-43

Constituents	4/6/2022	7/8/2022	8/23/2022	3/8/2023	7/21/2023	9/13/2023	5/29/2024	10/15/2024	4/16/2025
Isosafrole			<10						
Kepone			<10						
Lead	<.5		<.5	<.5		<.5	<.5	<4.0	<1.0
Mercury			<.2						
Methacrylonitrile			<10						
Methapyrilene			<10						
Methoxychlor			<.064						
Methyl Methacrylate			<2						
Methyl Methanesulfonate			<10						
Methylene Bromide	<1		<1	<1		<1	<1	<1	<1
Methylene Chloride	<5		<5	<5		<5	<5	<5	<5
Naphthalene			<5						
Nickel	<3.11		5.23	<2.91		5.90	<2.77	4.50	6.40
Nitrobenzene			<10						
N-Nitrosodiethylamine			<10						
N-Nitrosodimethylamine			<10						
N-Nitrosodi-n-butylamine			<10						
N-Nitrosodi-n-propylamine			<10						
N-Nitrosodiphenylamine			<10						
N-Nitrosomethylethylamine			<10						
N-Nitrosopiperidine			<10						
N-Nitrosopyrrolidine			<10						
O,O,O-Triethyl Phosphorothioate			<10						
o-Toluidine			<10						
Parathion-Ethyl			<10						
Parathion-Methyl			<10						
PCB-1016			<.8						
PCB-1221			<.8						
PCB-1232			<.8						
PCB-1242			<.8						
PCB-1248			<.8						
PCB-1254			<.8						
PCB-1260			<.8						
Pentachlorobenzene			<10						
Pentachloronitrobenzene			<10						
Pentachlorophenol [2C]			<10						
Phenacetin			<10						
Phenanthrene			<10						
Phenol			<10						
Phorate			<10						
Pronamide			<10						
Propionitrile			<10						
Pyrene			<10						
Safrole			<10						
Selenium	27.5	<5.0	<5.0	24.4	<5.0	<5.0	<5.0	<4.0	<2.0
Silver	<1		<1	<1		<1	<1	<4	<5
Styrene	<1		<1	<1		<1	<1	<1	<1
Sulfide			<1						
Tetrachloroethene	<1		<1	<1		<1	<1	<1	<1
Thallium	<1.0		<1.0	<1.0		<1.0	<1.0	<2.0	<.5
Thionazin			<10						
Tin			<5						
Toluene	<1		<1	<1		<1	<1	<1	<1
Total Suspended Solids	<.875	2.880	12.000	2.500	47.500	25.000	<1.880		
Toxaphene			<2						
trans-1,2-Dichloroethene	<1		<1	<1		<1	<1	<1	<1
trans-1,3-Dichloropropene	<5		<5	<5		<5	<5	<1	<1
trans-1,4-Dichloro-2-Butene	<10		<10	<10		<10	<10	<5	<5
Trichloroethene	<1		<1	<1		<1	<1	<1	<1
Trichlorofluoromethane	<4		<4	<4		<4	<4	<1	<1
Vanadium	<1.98		<1.76	<1.78		<2.19	<5.00	<20.00	2.60
Vinyl Acetate	<10		<10	<10		<10	<10	<5	<5
Vinyl Chloride	<1		<1	<1		<1	<1	<1	<1
Xylenes, total	<3		<3	<3		<3	<3	<2	<2
Zinc	<20.0		<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-43

Constituents	10/27/2025
Isosafrole	
Kepone	
Lead	<1.0
Mercury	
Methacrylonitrile	
Methapyrilene	
Methoxychlor	
Methyl Methacrylate	
Methyl Methanesulfonate	
Methylene Bromide	<1
Methylene Chloride	<5
Naphthalene	
Nickel	9.60
Nitrobenzene	
N-Nitrosodiethylamine	
N-Nitrosodimethylamine	
N-Nitrosodi-n-butylamine	
N-Nitrosodi-n-propylamine	
N-Nitrosodiphenylamine	
N-Nitrosomethylethylamine	
N-Nitrosopiperidine	
N-Nitrosopyrrolidine	
O,O,O-Triethyl Phosphorothioate	
o-Toluidine	
Parathion-Ethyl	
Parathion-Methyl	
PCB-1016	
PCB-1221	
PCB-1232	
PCB-1242	
PCB-1248	
PCB-1254	
PCB-1260	
Pentachlorobenzene	
Pentachloronitrobenzene	
Pentachlorophenol [2C]	
Phenacetin	
Phenanthrene	
Phenol	
Phorate	
Pronamide	
Propionitrile	
Pyrene	
Safrole	
Selenium	<2.0
Silver	<5
Styrene	<1
Sulfide	
Tetrachloroethene	<1
Thallium	<.5
Thionazin	
Tin	
Toluene	<1
Total Suspended Solids	
Toxaphene	
trans-1,2-Dichloroethene	<1
trans-1,3-Dichloropropene	<1
trans-1,4-Dichloro-2-Butene	<5
Trichloroethene	<1
Trichlorofluoromethane	<1
Vanadium	2.20
Vinyl Acetate	<5
Vinyl Chloride	<1
Xylenes, total	<2
Zinc	9.5

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

Table 9

Analytical Data Summary for UD-0

Constituents	Units	4/30/2008	10/14/2014	7/29/2015	2/15/2016	4/6/2022	3/8/2023	9/13/2023
1,1,1,2-Tetrachloroethane	ug/L	<.33	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
1,1,1-Trichloroethane	ug/L	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
1,1,2,2-Tetrachloroethane	ug/L	<.23	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
1,1,2-Trichloroethane	ug/L	<.37	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
1,1-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<10
1,1-Dichloroethene	ug/L	<.37	<2.00	<2.00	<2.00	<2.00	<2.00	<20.00
1,2,3-Trichloropropane	ug/L	<.7	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
1,2-Dibromo-3-Chloropropane	ug/L	<.86	<.12	<.50	<.50	<5.00	<5.00	<50.00
1,2-Dibromoethane	ug/L	<.25	<.13	<.13	<.13	<1.00	<1.00	<10.00
1,2-Dichlorobenzene	ug/L	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
1,2-Dichloroethane	ug/L	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
1,2-Dichloropropane	ug/L	<.4	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
1,4-Dichlorobenzene	ug/L	<.16	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
2-Butanone	ug/L	<.91	<10.00	<10.00	<10.00	<10.00	<10.00	<100.00
2-Hexanone	ug/L	<1.76	<10.00	<10.00	<10.00	<10.00	<10.00	<100.00
4-Methyl-2-Pentanone	ug/L	<.31	<10.00	<10.00	<10.00	<10.00	<10.00	<100.00
Acetone	ug/L	<4.62	<10.00	<10.00	<10.00	<10.00	<10.00	<100.00
Acrylonitrile	ug/L	<1.28	<10.00	<10.00	<10.00	<5.00	<5.00	<50.00
Antimony	ug/L	<1.790	<6.000	<.777	1.570	<1.550	<2.000	2.250
Arsenic	ug/L	<.340	<.761	4.410	6.990	2.700	2.540	3.440
Barium	ug/L	121	232	372	592	797	877	940
Benzene	ug/L	<.16	<.50	<.50	<.50	<.50	<.50	<5.00
Beryllium	ug/L	<.028	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Bromochloromethane	ug/L	<.76	<5.00	<5.00	<5.00	<5.00	<5.00	<50.00
Bromodichloromethane	ug/L	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
Bromoform	ug/L	<.43	<5.00	<5.00	<5.00	<5.00	<5.00	<50.00
Bromomethane	ug/L	<.480	<4.000	<4.000	<.245	<4.000	<4.000	<40.000
Cadmium	ug/L	<.170	<.078	<.500	<.113	.296	.124	.305
Carbon Disulfide	ug/L	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Carbon Tetrachloride	ug/L	<.31	<2.00	<2.00	<2.00	<2.00	<2.00	<20.00
Chlorobenzene	ug/L	<.17	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Chlorodibromomethane	ug/L	<.26	<5.00	<5.00	<5.00	<5.00	<5.00	<50.00
Chloroethane	ug/L	<.5	<4.0	<4.0	<4.0	<4.0	<4.0	<40.0
Chloroform	ug/L	<.17	<1.00	<1.00	<1.00	<3.00	<3.00	<30.00
Chloromethane	ug/L	<.200	<3.000	<3.000	<.354	<3.000	<3.000	<30.000
Chromium	ug/L	<1.73	<20.00	<1.85	5.16	6.65	<2.78	7.68
cis-1,2-Dichloroethene	ug/L	<.37	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
cis-1,3-Dichloropropene	ug/L	<.23	<5.00	<5.00	<5.00	<5.00	<5.00	<50.00
Cobalt	ug/L	<1.40	<2.41	6.09	8.90	22.00	8.90	27.80
Copper	ug/L	<13.10	<3.94	<1.23	4.10	15.00	6.55	18.60
Ethylbenzene	ug/L	<.25	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Iodomethane	ug/L	<.4	<10.0	<10.0	<10.0	<10.0	<10.0	<100.0
Lead	ug/L	<.370	<4.000	.981	.571	.788	<.358	.680
Methylene Bromide	ug/L	<.3	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
Methylene Chloride	ug/L	<.450	<5.000	<5.000	<.191	<5.000	<5.000	<50.000
Nickel	ug/L	<.46	50.5	42.7	72.7	121.0	76.8	128.0
Selenium	ug/L	<1.44	<5.00	<5.00	<5.00	<2.35	<1.45	<3.66
Silver	ug/L	<2.61	<20.00	<1.00	<1.00	<1.00	<1.00	<1.00
Styrene	ug/L	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Tetrachloroethene	ug/L	<.38	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Thallium	ug/L	<.700	<2.000	<.086	<1.000	<1.000	<1.000	<1.000
Toluene	ug/L	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Total Suspended Solids	mg/L		4.22	6.83	<2.67	<3.33	2.63	5.75
trans-1,2-Dichloroethene	ug/L	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
trans-1,3-Dichloropropene	ug/L	<.17	<5.00	<5.00	<5.00	<5.00	<5.00	<50.00
trans-1,4-Dichloro-2-Butene	ug/L	<1.8	<10.0	<10.0	<10.0	<10.0	<10.0	<100.0
Trichloroethene	ug/L	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Trichlorofluoromethane	ug/L	<.26	<4.00	<4.00	<4.00	<4.00	<4.00	<40.00
Vanadium	ug/L	<1.60	<50.00	<1.79	<3.24	<2.44	<3.00	<3.06
Vinyl Acetate	ug/L	<1.36	<10.00	<10.00	<10.00	<10.00	<10.00	<100.00
Vinyl Chloride	ug/L	<.26	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Xylenes, total	ug/L	<.3	<3.0	<3.0	<3.0	<3.0	<3.0	<30.0
Zinc	ug/L	<5.27	<20.00	<10.00	<10.00	<20.00	<20.00	<8.74

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

Table 9

Analytical Data Summary for UD-1

Constituents	Units	3/30/2020
1,1,1,2-Tetrachloroethane	ug/L	<1
1,1,1-Trichloroethane	ug/L	<1
1,1,2,2-Tetrachloroethane	ug/L	<1
1,1,2-Trichloroethane	ug/L	<1
1,1-Dichloroethane	ug/L	<1
1,1-Dichloroethene	ug/L	<2
1,2,3-Trichloropropane	ug/L	<1
1,2-Dibromo-3-Chloropropane	ug/L	<5
1,2-Dibromoethane	ug/L	<1
1,2-Dichlorobenzene	ug/L	<1
1,2-Dichloroethane	ug/L	<1
1,2-Dichloropropane	ug/L	<1
1,4-Dichlorobenzene	ug/L	<1
2-Butanone	ug/L	<10
2-Hexanone	ug/L	<10
4-Methyl-2-Pentanone	ug/L	<10
Acetone	ug/L	<10
Acrylonitrile	ug/L	<5
Antimony	ug/L	<1
Arsenic	ug/L	<2
Barium	ug/L	156
Benzene	ug/L	<.5
Beryllium	ug/L	<1
Bromochloromethane	ug/L	<5
Bromodichloromethane	ug/L	<1
Bromoform	ug/L	<5
Bromomethane	ug/L	<4
Cadmium	ug/L	<.1
Carbon Disulfide	ug/L	<1
Carbon Tetrachloride	ug/L	<2
Chlorobenzene	ug/L	<1
Chlorodibromomethane	ug/L	<5
Chloroethane	ug/L	<4
Chloroform	ug/L	<3
Chloromethane	ug/L	<3
Chromium	ug/L	<5
cis-1,2-Dichloroethene	ug/L	<1
cis-1,3-Dichloropropene	ug/L	<5
Cobalt	ug/L	<.5
Copper	ug/L	<5
Ethylbenzene	ug/L	<1
Iodomethane	ug/L	<10
Lead	ug/L	<.5
Methylene Bromide	ug/L	<1
Methylene Chloride	ug/L	<10
Nickel	ug/L	<5
Selenium	ug/L	<1.29
Silver	ug/L	<1
Styrene	ug/L	<1
Tetrachloroethene	ug/L	<1
Thallium	ug/L	<1
Toluene	ug/L	<1
Total Suspended Solids	mg/L	<1
trans-1,2-Dichloroethene	ug/L	<1
trans-1,3-Dichloropropene	ug/L	<5
trans-1,4-Dichloro-2-Butene	ug/L	<10
Trichloroethene	ug/L	<1
Trichlorofluoromethane	ug/L	<4
Vanadium	ug/L	<5
Vinyl Acetate	ug/L	<10
Vinyl Chloride	ug/L	<1
Xylenes, total	ug/L	<3
Zinc	ug/L	<20

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

Table 10 – Historic SSI and SSL - **(Not Required)**

Table 11 – Corrective Action Trend Analysis - **(Not Required)**

Table 12 – Leachate Levels 2025

Table 12
Leachate Level Summary
2024 Annual Water Quality Report
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

Date	LINED LANDFILL - HEAD ON LINER (FEET)			UNLINED LANDFILL - LEACHATE THICKNESS (FEET)				
	Phase 0	Phase 1	Phase 2					
	LPZ-0 8.0' Depth	LPZ-1 9.5' Depth	LPZ-2 12.9' Depth	PZ-1R 40.5' Depth	PZ-2 34.6' Depth	PZ-3R 50.2' Depth	PZ-4 30.8' Depth	PZ-5R 53.8' Depth
Jan. 25	NR ⁽¹⁾	NR ⁽¹⁾	NR ⁽¹⁾	NA	NA	NA	NA	NA
Feb. 25	NR ⁽¹⁾	NR ⁽¹⁾	NR ⁽¹⁾	NA	NA	NA	NA	NA
3/31/25	0	0	NR ⁽²⁾	0.5	0	15.2	NR ⁽¹⁾	1.2
4/24/25	0	0	NR ⁽²⁾	NA	NA	NA	NA	NA
5/29/25	0.1	0	NR ⁽²⁾	NA	NA	NA	NA	NA
6/26/25	NR ⁽¹⁾	NR ⁽¹⁾	NR ⁽²⁾	NR ⁽¹⁾	NR ⁽¹⁾	NR ⁽¹⁾	2.7	NR ⁽¹⁾
July 25	NR ⁽¹⁾	NR ⁽¹⁾	NR ⁽¹⁾	NA	NA	NA	NA	NA
Aug. 25	NR ⁽¹⁾	NR ⁽¹⁾	NR ⁽¹⁾	NA	NA	NA	NA	NA
Sept. 25	NR ⁽¹⁾	NR ⁽¹⁾	NR ⁽¹⁾	NA	NA	NA	NA	NA
10/27/25	0	0	0.3	0.25	0.22	15.8	7.1	3.25
Nov. 25	NR ⁽¹⁾	NR ⁽¹⁾	NR ⁽¹⁾	NA	NA	NA	NA	NA
12/5/25	0	0	0.3	NA	NA	NA	NA	NA

NR ⁽¹⁾ = Measurement inadvertently omitted

NR ⁽²⁾ = Point damaged and could not be measured

NA = Quarterly measurements required

Table 12A – Leachate Levels Historic

Table E-2
Historical Leachate Column Thicknesses
Table 12A
Historic - Leachate Data
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75P

Date	LEACHATE COLUMN THICKNESS										
	LPZ-0	LPZ-1	LPZ-2 ^(3,8)	PZ-1R	PZ-2	PZ-3R ⁽²⁾	PZ-4	PZ-5R	PZ-6	PZ-7	PZ-8
TOC	151.00	151.00	117.22	83.13	147.30	109.60	150.00	111.78	111.34	133.90	133.29
Constructed Depth	9.00	NM	NM	37.00	55.00	13.44	44.43	47.94	50.00	55.00	58.00
Measured Depth (6/24/2009)	38.00	10.00	12.75	42.30	35.00	50.00	31.50	54.00	NA	NA	NA
3/6/2006					17.20	Dry	Dry				
9/12/2006					16.60	Dry	Dry				
3/29/2007					15.80		11.93				
9/28/2007					Dry		Dry				
4/29/2008	Dry				Dry	Dry	Dry				
9/11/2008	Dry				Dry	Dry	Dry				
3/3/2009				Dry	Dry	Dry	Dry	7.79			
8/21/2009				Dry	Dry	22.7	Dry	9.24			
9/24/2009	2.0	0.8		Dry	Dry	22.0	Dry	6.8			
10/27/2009	2.0	1.0		Dry	Dry	21.5	Dry	8.2			
11/24/2009	Dry	0.8		Dry	Dry	21.3	Dry	11.5			
12/17/2009	Dry	Dry		Dry	Dry	20.8	Dry	6.5			
1/27/2010	⁽¹⁾	0.2		Dry	Dry	20.8	Dry	6.5			
2/23/2010	⁽¹⁾	0.3		Dry	Dry	20.8	Dry	8.0			
3/30/2010	⁽¹⁾	0.2		Dry	Dry	20.8	Dry	9.0			
4/27/2010	Dry	2.0		Dry	Dry	21.0	Dry	8.8			
5/26/2010	Dry	2.0		Dry	Dry	21.4	Dry	11.0			
6/25/2010	Dry	2.8		Dry	Dry	21.6	Dry	11.5			
7/28/2010	Dry	2.0		Dry	Dry	21.6	Dry	11.4			
8/13/2010	Dry	1.0		Dry	Dry	21.5	Dry	11.4			
9/17/2010	Dry	1.0		Dry	Dry	21.5	Dry	11.5			
10/15/2010	Dry	0.2		Dry	Dry	21.3	Dry	11.5			
11/23/2010	Dry	0.0		Dry	Dry	21.0	Dry	10.0			
12/16/2010	Dry	0.2		Dry	Dry	21.4	Dry	10.0			
1/13/2011	Dry	0.2		Dry	Dry	21.0	Dry	10.2			
2/24/2011	Dry	0.2		Dry	Dry	21.0	Dry	10.0			
3/17/2011	Dry	0.0		Dry	Dry	20.5	Dry	9.0			
4/12/2011	Dry	0.0		Dry	Dry	20.9	Dry	10.0			
5/18/2011	Dry	0.0		Dry	Dry	20.6	Dry	10.6			
6/16/2011	Dry	Dry		Dry	Dry	20.2	Dry	9.3			
7/14/2011	Dry	Dry		Dry	Dry	20.2	Dry	9.3			
8/24/2011	Dry	Dry		Dry	Dry	20.4	Dry	9.5			
9/14/2011	Dry	Dry		Dry	Dry	22.2	Dry	9.4			
10/18/2011	Dry	Dry		Dry	Dry	20.4	Dry	9.5			
11/10/2011	Dry	Dry		Dry	Dry	20.3	Dry	9.4			
12/7/2011	Dry	Dry		Dry	Dry	20.4	Dry	9.5			
1/24/2012	Dry	Dry		Dry	Dry	19.8	Dry	7.7			
2/14/2012	Dry	Dry		Dry	Dry	20.2	Dry	8.0			
3/27/2012	Dry	Dry		Dry	Dry	19.4	Dry	7.5			
4/19/2012	Dry	Dry		Dry	Dry	19.4	Dry	7.5			
5/14/2012	Dry	Dry		Dry	Dry	19.2	Dry	7.3			
6/12/2012	Dry	Dry		Dry	Dry	20.4	Dry	7.1			
7/18/2012	Dry	Dry	Dry	Dry	Dry	19.8	Dry	6.8			
8/16/2012	Dry	Dry	Dry	Dry	Dry	19.4	Dry	6.7			
9/17/2012	Dry	Dry	Dry	Dry	Dry	19.5	Dry	6.9			
10/15/2012	Dry	Dry	Dry	Dry	Dry	19.2	Dry	6.9			
11/21/2012	Dry	Dry	Dry	Dry	Dry	19.1	Dry	6.9			
12/18/2012	Dry	Dry	Dry	Dry	Dry	19.8	Dry	6.3			

Table E-2
Historical Leachate Column Thicknesses
Table 12A
Historic - Leachate Data
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75P

Date	LEACHATE COLUMN THICKNESS										
	LPZ-0	LPZ-1	LPZ-2 ^(3,8)	PZ-1R	PZ-2	PZ-3R ⁽²⁾	PZ-4	PZ-5R	PZ-6	PZ-7	PZ-8
TOC	151.00	151.00	117.22	83.13	147.30	109.60	150.00	111.78	111.34	133.90	133.29
Constructed Depth	9.00	NM	NM	37.00	55.00	13.44	44.43	47.94	50.00	55.00	58.00
Measured Depth (6/24/2009)	38.00	10.00	12.75	42.30	35.00	50.00	31.50	54.00	NA	NA	NA
1/25/2013	Dry	Dry	Dry	Dry	Dry	19.8	Dry	Dry			
2/12/2013	Dry	Dry	Dry	Dry	Dry	19.8	Dry	6.3			
3/26/2013	Dry	Dry	Dry	Dry	Dry	19.7	Dry	6.5			
4/5/2013	Dry	Dry	Dry	Dry	Dry	19.7	Dry	6.5			
5/9/2013	Dry	Dry	Dry	Dry	Dry	18.9	Dry	6.4			
6/20/2013	Dry	Dry	Dry	Dry	Dry	18.9	0.6	6.4			
7/22/2013	Dry	Dry	Dry	Dry	Dry	18.9	0.7	6.4			
8/1/2013	Dry	Dry	Dry	Dry	Dry	18.9	Dry	6.4			
9/24/2013	Dry	Dry	Dry	Dry	Dry	19.0	Dry	6.1			
10/17/2013	Dry	Dry	Dry	Dry	Dry	18.9	Dry	6.1			
11/18/2013	Dry	Dry	Dry	Dry	Dry	18.9	Dry	6.1			
12/3/2013	Dry	Dry	Dry	Dry	Dry	18.9	Dry	6.5			
1/22/2014	Dry	Dry	Dry	Dry	Dry	18.9	Dry	6.1			
2/10/2014	Dry	Dry	Dry	Dry	Dry	18.9	Dry	6.1			
3/11/2014	Dry	Dry	Dry	Dry	Dry	19.0	Dry	6.1			
4/19/2014	Dry	Dry	Dry	Dry	Dry	19.0	Dry	6.0			
5/20/2014	Dry	Dry	Dry	Dry	Dry	18.8	Dry	6.0			
6/24/2014		Dry	Dry	Dry	Dry	19.0	Dry	6.0			
7/14/2014		Dry	Dry	Dry	Dry	19.2	Dry	6.0			
8/12/2014		Dry	Dry	Dry	Dry	19.6	Dry	6.0			
9/17/2014		Dry	Dry	Dry	Dry	19.6	Dry	6.0			
10/21/2014		Dry	Dry	Dry	Dry	20.9	Dry	5.7			
11/25/2014		Dry	Dry	Dry	Dry	20.6	Dry	5.7			
12/12/2014		Dry	Dry	Dry	Dry	20.7	Dry	5.7			
1/22/2015		Dry	Dry	Dry	Dry	20.6	Dry	5.5			
2/24/2015		Dry	Dry	Dry	Dry	20.6	Dry	5.5			
3/24/2015		Dry	Dry	Dry	Dry	20.6	Dry	5.5			
4/16/2015		Dry	Dry	Dry	Dry	20.5	Dry	5.5			
5/21/2015		Dry	Dry	Dry	Dry	20.6	Dry	5.5			
10/21/2015		Dry	Dry	Dry	Dry	20.4	Dry	5.6	16.2	22.7	15.5
11/16/2015	0.4	Dry	Dry	1.3	Dry	19.6	Dry	5.7	17.9	23.1	15.4
12/8/2015	0.8	Dry	Dry	2.3	Dry	Dry	Dry	5.6	19.1	24.8	15.8
1/18/2016	0.7	Dry	Dry	1.2	Dry	19.9	1.8	5.5	18.0	22.9	15.2
2/20/2016	0.4	Dry	Dry	1.3	Dry	19.3	1.7	5.2	15.0	23.0	15.1
3/22/2016	0.3	Dry	Dry	1.4	Dry	19.5	1.4	5.3	16.0	22.9	15.8
4/21/2016	0.4	Dry	Dry	1.3	Dry	19.5	Dry	5.3	16.0	22.0	15.7
5/19/2016	0.2	Dry	Dry	1.4	Dry	19.3	Dry	5.3	16.0	19.0	14.2
6/30/2016	0.3	Dry	Dry	1.4	Dry	17.1	Dry	4.5	19.9	21.3	13.6
7/26/2016	0.2	Dry	Dry	1.3	Dry	19.2	Dry	5.3	16.1	22.5	15.0
8/29/2016	0.6	Dry	Dry	1.3	Dry	19.4	Dry	5.4	16.2	22.6	15.0
9/30/2016	0.3	Dry	Dry	1.4	Dry	19.1	Dry	5.2	16.1	22.2	14.5
10/24/2016	0.2	Dry	Dry	1.1	Dry	18.9	Dry	5.3	16.2	22.4	15.0
11/16/2016	0.2	Dry	Dry	1.2	Dry	19.0	Dry	5.1	16.2	22.5	15.0
12/22/2016	0.2	Dry	Dry	1.3	Dry	19.1	1.5	5.1	16.0	22.1	15.1

Table E-2
Historical Leachate Column Thicknesses
Table 12A
Historic - Leachate Data
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75P

Date	LEACHATE COLUMN THICKNESS										
	LPZ-0	LPZ-1	LPZ-2 ^(3,8)	PZ-1R	PZ-2	PZ-3R ⁽²⁾	PZ-4	PZ-5R	PZ-6	PZ-7	PZ-8
TOC	151.00	151.00	117.22	83.13	147.30	109.60	150.00	111.78	111.34	133.90	133.29
Constructed Depth	9.00	NM	NM	37.00	55.00	13.44	44.43	47.94	50.00	55.00	58.00
Measured Depth (6/24/2009)	38.00	10.00	12.75	42.30	35.00	50.00	31.50	54.00	NA	NA	NA
1/20/2017	0.1	Dry	Dry	1.3	Dry	19.9	Dry	5.8	19.2	24.0	15.9
2/17/2017	0.6	Dry	Dry	Dry	0.1	18.8	Dry	6.7	16.0	22.8	15.5
3/29/2017	0.6	Dry	Dry	1.3	Dry	19.1	Dry	Dry	16.3	22.8	15.4
4/27/2017	0.4	Dry	Dry	0.5	Dry	19.3	Dry	5.3	15.2	22.4	15.0
5/30/2017	0.7	Dry	Dry	1.3	Dry	19.1	Dry	Dry	16.2	22.4	15.1
6/22/2017	0.8	Dry	Dry	1.2	Dry	18.0	Dry	Dry	18.0	22.5	15.3
7/26/2017	0.9	Dry	Dry	1.2	Dry	12.0	Dry	Dry	18.8	22.5	15.3
8/22/2017	1.0	Dry	Dry	1.3	Dry	18.9	Dry	5.2	16.3	22.3	14.5
9/14/2017	0.8	Dry	Dry	1.3	Dry	10.1	Dry	5.0	19.1	22.4	15.2
10/24/2017	0.7	Dry	Dry	0.6	Dry	18.8	Dry	5.1	19.2	22.2	15.0
11/17/2017	0.4	Dry	Dry	1.3	Dry	19.0	Dry	5.2	16.3	22.1	14.9
12/12/2017	0.6	Dry	Dry	Dry	Dry	18.5	Dry	4.6	Dry	21.9	14.8
1/25/2018	0.7	Dry	Dry	Dry	Dry	18.4	Dry	9.8	14.6	22.3	14.9
2/27/2018	0.8	Dry	Dry	0.5	Dry	18.2	Dry	9.5	14.8	22.4	15.0
3/22/2018	0.5	Dry	Dry	Dry	Dry	18.4	Dry	4.8	Dry	21.8	14.6
4/23/2018	0.6	Dry	Dry	Dry	Dry	18.3	Dry	9.6	14.9	22.2	14.8
5/23/2018	0.4	Dry	Dry	Dry	Dry	18.2	Dry	8.9	14.8	22.1	14.7
6/30/2018	0.5	Dry	Dry	1.4	Dry	18.1	Dry	4.0	16.7	22.3	14.7
7/25/2018	Dry	Dry	Dry	1.3	Dry	14.9	Dry	4.1	22.2	21.1	12.9
8/28/2018	0.2	Dry	Dry	1.1	Dry	15.2	Dry	4.3	20.6	21.0	24.2
9/19/2018	0.7	Dry	Dry	1.3	Dry	7.3	Dry	5.3	18.9	21.2	13.9
10/24/2018	0.3	Dry	Dry	1.3	Dry	0.8	Dry	4.2	23.6	18.8	13.3
11/26/2018	0.9	Dry	Dry	1.2	Dry	1.3	Dry	5.1	21.9	21.0	13.4
12/21/2018	0.7	Dry	Dry	Dry	Dry	16.9	Dry	Dry	10.5		
1/18/2019	0.9	Dry	Dry	Dry	Dry	17.1	Dry	Dry	10.6	22.4	17.3
2/21/2019	0.6	Dry	Dry	1.3	Dry	16.9	Dry	Dry	12.1	22.5	19.2
3/24/2019	0.5	Dry	Dry	Dry	Dry	17.0	Dry	Dry	10.8	22.7	17.9
4/26/2019	0.6	Dry	Dry	Dry	Dry	17.3	Dry	Dry	16.8	22.0	12.9
5/31/2019	0.7	Dry	Dry	Dry	Dry	17.0	Dry	Dry	17.0	21.6	13.1
6/28/2019	0.8	Dry	Dry	Dry	Dry	17.2	Dry	Dry	16.8	21.9	13.3
7/31/2019	0.7	Dry	Dry	Dry	Dry	17.5	Dry	Dry	16.9	22.1	12.9
8/28/2019	0.2	Dry	Dry	1.2	Dry	17.3	1.7	8.4	12.2	22.8	19.5
9/27/2019	0.5	Dry	Dry	Dry	Dry	17.1	Dry	Dry	14.2	21.9	17.9
10/1/2019											
11/19/2019	1.1	Dry	Dry	0.5	Dry	17.2	Dry	3.8	11.2	22.1	14.8
12/20/2019	0.8	Dry	Dry	0.8	Dry	17.2	Dry	Dry	11.9	22.5	17.7
1/1/2020	0.9	Dry		Dry	Dry	17.3	Dry	Dry	11.8	22.6	17.8
2/1/2020	0.9	Dry		Dry	Dry	17.4	Dry	Dry	17.0	22.1	12.9
3/1/2020	0.5	Dry		0.9	Dry	16.0	Dry	Dry	12.5	22.6	17.9
4/1/2020	0.3	0.7	0.4	1.1	Dry	17.1	1.3	4.1	8.4	22.0	14.7
5/1/2020	1.2	Dry		Dry	Dry	16.9	Dry	Dry	10.3	22.2	17.0
6/1/2020	0.2	0.8		Dry	Dry	17.2	1.9	5.5	6.5	21.6	14.6
7/1/2020	1.0	Dry	0.1	Dry	Dry	17.0	Dry	Dry	17.2	22.2	13.2
8/1/2020	0.3	Dry	Dry	1.5	2.0	16.8	1.4	5.4	13.4	21.7	13.9
9/1/2020	0.4	Dry	Dry	Dry	Dry	17.2	Dry	Dry	16.8	21.9	13.3
10/1/2020	0.5	1.0	0.1	1.4	1.0	16.7	1.1	5.0	13.6	21.5	13.6
11/1/2020	1.0	1.2		1.3	0.4	16.6	0.9	3.4	14.8	21.5	13.2
12/1/2020	1.4	Dry	Dry	Dry	Dry	16.8	3.9	3.5	6.2	21.5	13.0

Table E-2
Historical Leachate Column Thicknesses
Table 12A
Historic - Leachate Data
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75P

Date	LEACHATE COLUMN THICKNESS										
	LPZ-0	LPZ-1	LPZ-2 ^(3,8)	PZ-1R	PZ-2	PZ-3R ⁽²⁾	PZ-4	PZ-5R	PZ-6	PZ-7	PZ-8
TOC	151.00	151.00	117.22	83.13	147.30	109.60	150.00	111.78	111.34	133.90	133.29
Constructed Depth	9.00	NM	NM	37.00	55.00	13.44	44.43	47.94	50.00	55.00	58.00
Measured Depth (6/24/2009)	38.00	10.00	12.75	42.30	35.00	50.00	31.50	54.00	NA	NA	NA
1/21/2021	Dry	Dry	Dry	Dry	Dry	17.2	0.7	3.0	7.1	22.1	13.0
2/3/2021	0.5	0.4	0.2	Dry	Dry	17.0	1.4	3.4	6.6	22.0	13.4
3/31/2021	Dry	Dry	Dry	Dry	Dry	18.0	1.5	10.7		22.0	13.9
4/27/2021	Dry	0.7	Dry	Dry	Dry	Dry	0.2	21.5	1.7	14.0	15.3
5/25/2021	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	5.1	21.6	13.2
6/23/2021	Dry	Dry	Dry	Dry	2.6	Dry	Dry	3.1	10.2	21.7	13.5
7/26/2021	Dry	Dry	Dry	Dry	Dry	17.4	1.8	3.4	9.8	21.7	13.6
8/11/2021											
9/14/2021	Dry	Dry	Dry	3.7		19.8	3.6	4.2	5.5	21.8	13.4
10/15/2021	Dry	Dry	Dry	Dry	3.2	11.8	3.0	7.3	11.4	21.6	19.5
11/29/2021	Dry	Dry	Dry	Dry	3.9	10.9	1.7	5.7	10.4	23.4	21.9
12/21/2021	Dry	Dry	Dry	Dry	Dry	16.5	1.7	3.5	7.2	21.6	13.9
1/11/2022	0.9	1.1	0.2	1.7	4.4	17.2	0.3	15.9	5.6	21.5	19.4
2/28/2022	Dry	0.8	Dry	2.3	2.0	18.8	1.3	3.8	7.7	23.9	19.9
3/30/2022	Dry	Dry	Dry	Dry	Dry	16.4	1.6	3.4	7.5	22.0	14.4
4/25/2022	Dry	Dry	Dry	8.8	7.0	18.0	Dry	1.1	7.2	23.0	14.6
5/30/2022	Dry	Dry	Dry	8.6	7.2	17.7	Dry	1.2	7.0	22.9	14.2
6/20/2022	Dry	Dry	Dry	9.3	6.9	18.1	2.2	12.7	7.0	23.1	14.1
7/25/2022	Dry	Dry	Dry	11.7	Dry	16.9	Dry	14.9	8.8	23.1	16.0
8/31/2022	Dry	Dry	Dry	11.5	Dry	17.4	1.5	3.2	15.8	22.0	20.4
9/30/2022	Dry	Dry	0.8	10.2	7.7	16.2	Dry	14.8	8.8	16.8	17.2
10/21/2022	Dry	Dry	Dry	Dry	Dry	16.8	0.9	3.8	6.4	23.2	13.5
11/8/2022	Dry	Dry	Dry	Dry	Dry	0.1	1.3	5.1	15.4	19.3	14.4
1/6/2023	Dry	Dry	Dry	Dry		15.9	1.4	2.7	14.5	21.0	12.7
2/28/2023	Dry	Dry	Dry	Dry	Dry	15.5	1.3	3.1	14.7	21.6	12.9
3/24/2023	Dry	Dry	Dry	Dry	Dry	16.1	1.4	3.8	13.9	21.0	13.6
4/26/2023	Dry	Dry	Dry	Dry	Dry	15.7	1.8	2.9	16.8	21.2	13.7
5/31/2023	Dry	Dry	Dry	Dry	Dry	15.5	1.7	2.7	15.0	21.5	20.5
6/22/2023	Dry	Dry	Dry	Dry	Dry	13.1	Dry	1.6	7.0	21.3	13.5
7/26/2023	Dry		Dry	Dry	0.8	13.4	Dry	1.9	6.1	21.2	12.6
8/25/2023	Dry	Dry	Dry	Dry	0.9	13.2	Dry	1.7	6.6	21.9	12.3
9/26/2023	Dry	Dry	Dry	2.4	Dry	15.4	Dry	1.6	6.2	21.1	12.5
10/27/2023	Dry	Dry	Dry	Dry	Dry	16.4	Dry	2.6	7.2	20.7	12.0
11/9/2023	Dry	Dry	Dry	Dry	Dry	0.9	Dry	2.1	5.6	20.7	8.8
12/14/2023	Dry	Dry	Dry	Dry	Dry	16.3	Dry	2.6	Dry	20.6	11.9
1/30/2024	Dry	Dry	Dry	2.9	Dry	16.3	1.6	0.8	5.1	21.3	11.7
2/29/2024	Dry	Dry	Dry	Dry	Dry	15.3	1.3	1.9	3.9	21.1	11.9
3/24/2024	Dry	Dry	NM	Dry	Dry	15.4	1.4	1.6	3.2	21.0	11.0
4/11/2024	Dry	Dry	Dry	2.2	Dry	14.8	2.1	1.8	4.6	21.5	12.5
5/29/2024	Dry	Dry	Dry	2.2	Dry	15.2	2.2	1.8	5.0	20.5	11.3
6/24/2024	Dry	Dry	Dry	2.3	Dry	15.5	1.3	1.2	4.3	20.6	12.2
7/22/2024	Dry	Dry	Dry	2.1	Dry	15.4	1.1	1.1	4.5	20.8	12.3
8/9/2024	Dry	Dry	Dry	1.9	Dry	14.8	1.1	1.2	5.0	20.4	11.8
9/20/2024	Dry	Dry	Dry	2.0	Dry	14.6	1.2	1.3	5.0	20.3	11.6
10/29/2024	Dry	Dry	Dry	Dry	Dry	15.4	Dry	1.6	6.1	21.2	12.4
11/21/2024	Dry	Dry	NM	2.1	Dry	15.2	Dry	2.7	4.9	22.1	12.0
12/9/2024	Dry	Dry	NM	2.1	Dry	15.0	Dry	2.6	5.0	22.0	12.2

Table E-2
Historical Leachate Column Thicknesses
Table 12A
Historic - Leachate Data
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75P

Date	LEACHATE COLUMN THICKNESS										
	LPZ-0	LPZ-1	LPZ-2 ^(3,8)	PZ-1R	PZ-2	PZ-3R ⁽²⁾	PZ-4	PZ-5R	PZ-6	PZ-7	PZ-8
TOC	151.00	151.00	117.22	83.13	147.30	109.60	150.00	111.78	111.34	133.90	133.29
Constructed Depth	9.00	NM	NM	37.00	55.00	13.44	44.43	47.94	50.00	55.00	58.00
Measured Depth (6/24/2009)	38.00	10.00	12.75	42.30	35.00	50.00	31.50	54.00	NA	NA	NA
1/30/2025	NM	NM	NM	---	---	---	---	---	removed	removed	removed
2/28/2025	NM	NM	NM	---	---	---	---	---	removed	removed	removed
3/31/2025	0.0	0.0	broken	0.5	0.0	15.2	NM	1.2	removed	removed	removed
4/24/2025	0.0	0.0	broken	---	---	---	---	---	removed	removed	removed
5/29/2025	0.1	0.0	broken	---	---	---	---	---	removed	removed	removed
6/26/2025	NM	NM	broken	NM	NM	NM	NM	NM	removed	removed	removed
7/30/2025	NM	NM	NM	---	---	---	---	---	removed	removed	removed
8/30/2025	NM	NM	NM	---	---	---	---	---	removed	removed	removed
9/30/2025	NM	NM	NM	---	---	---	---	---	removed	removed	removed
10/27/2025	0.0	0.0	0.3	0.3	0.22	15.8	7.1	3.25	removed	removed	removed
11/25/2025	NM	NM	NM	---	---	---	---	---	removed	removed	removed
12/5/2025	0.0	0.0	0.3	---	---	---	---	---	removed	removed	removed

Notes:
NI = Not Installed.
NA = Not Available; Monitoring point has been abandoned.
NM = Not Measured.
1. LPZ-0 not accessible due to weather-related conditions on steep slope.
2. PZ-3 abandoned in April 2009 at a depth of approximately 13 feet, and PZ-3R installed in April 2009 at depth of 50 feet.
3. TOC of LPZ-2 was verified during 5/28/12 survey event. See survey point #1529 in Cass Final Check Topo. Measured Depth was verified on January 11, 2021.
4. LPZ-0 casing modified to allow for head level measurements commencing with November 2015 readings. Prior depth was 38 feet. New depth is 9.0 feet.
5. Due to a change in landfill staff in June 2015, levels were inadvertently not taken for June - September 2015.
6. Measured depth from 6/24/09 used for determining column thickness if constructed depth unavailable or no longer applicable.
7. Measurements were inadvertantly missed during October 2019.
8. Equipment sensitivity likely led to erroneous data in 2020.

Table 13 – Gas Monitoring Summary

Table 13
Explosive Gas Testing
2025 Annual Water Quality Report
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

1st quarter

Reference* Location	Screen Exposed	Combustible % LEL
Breathing Zone		
#1 NE Corner		(1)
#2 NW Corner		(1)
#3 SW Corner		(1)
#4 SE Corner		(1)
#5 Bldg NE of Baler Bldg		(1)
#6 Beneath Scale		(1)
#7 North Maint. Shed		(1)
#8 Office		(1)
#9 Baler		(1)
#10 RCC Receiving		(1)
Subsurface		
#11 MW-10	(1)	(1)
#12 MW-12	(1)	(1)
#13 MW-15R	(1)	(1)
#14 MW-31	(1)	(1)
#15 LFGW-W1	(1)	(1)
#16 MW-35	(1)	(1)
#17 MW-39	(1)	(1)
#18 GUCO-1		(1)
#19 GUCO-2		(1)

2nd quarter

Reference* Location	Screen Exposed	Combustible % LEL
Breathing Zone		
#1 NE Corner		(1)
#2 NW Corner		(1)
#3 SW Corner		(1)
#4 SE Corner		(1)
#5 Bldg NE of Baler Bldg		(1)
#6 Beneath Scale		(1)
#7 North Maint. Shed		(1)
#8 Office		(1)
#9 Baler		(1)
#10 RCC Receiving		(1)
Subsurface		
#11 MW-10	(1)	(1)
#12 MW-12	(1)	(1)
#13 MW-15R	(1)	(1)
#14 MW-31	(1)	(1)
#15 LFGW-W1	(1)	(1)
#16 MW-35	(1)	(1)
#17 MW-39	(1)	(1)
#18 GUCO-1		(1)
#19 GUCO-2		(1)

3rd quarter

Reference* Location	Screen Exposed	Combustible % LEL
Breathing Zone		
#1 NE Corner		(1)
#2 NW Corner		(1)
#3 SW Corner		(1)
#4 SE Corner		(1)
#5 Bldg NE of Baler Bldg		(1)
#6 Beneath Scale		(1)
#7 North Maint. Shed		(1)
#8 Office		(1)
#9 Baler		(1)
#10 RCC Receiving		(1)
Subsurface		
#11 MW-10	(1)	(1)
#12 MW-12	(1)	(1)
#13 MW-15R	(1)	(1)
#14 MW-31	(1)	(1)
#15 LFGW-W1	(1)	(1)
#16 MW-35	(1)	(1)
#17 MW-39	(1)	(1)
#18 GUCO-1		(1)
#19 GUCO-2		(1)

October 27, 2025

Reference* Location	Screen Exposed	Combustible % LEL
Breathing Zone		
#1 NE Corner		0
#2 NW Corner		0
#3 SW Corner		0
#4 SE Corner		0
#5 Bldg NE of Baler Bldg		0
#6 Beneath Scale		0
#7 North Maint. Shed		0
#8 Office		0
#9 Baler		0
#10 RCC Receiving		0
Subsurface		
#11 MW-10	Y	0
#12 MW-12	Y	0
#13 MW-15R	N	0
#14 MW-31	N	0
#15 LFGW-W1		0
#16 MW-35	N	0
#17 MW-39	Y	0
#18 GUCO-1		0
#19 GUCO-2		0

(1) - Measurements could not be located

Appendix A

Historic Hydraulic Conductivity Testing Results

TABLE 3
SUMMARY OF SLUG TEST RESULTS
CASS COUNTY SANITARY LANDFILL
ATLANTIC, IOWA
PERMIT NO. 15-SDP-01-75P
PROJECT NO. CASSC 05004

Monitoring Well Installation Status	Monitoring Well	Date Water Level	Top of Casing ft. (1)	Constructed Depth (2) ft.	Screen Elevations		Depth to Water (3) ft.	July 7, 2005 Water Elevation ft.	August 12, 2005 Hydraulic Conductivity (4) cm/sec	Aquifer
					Top ft.	Bottom ft.				
Newly Installed	MW-27	7/7/2005	103.79	34.9	83.84	68.8	14.67	89.12	7.34E-07	shallow
	MW-28	7/7/2005	103.58	71.2	52.4	32.4	dry	NA	NM	deep, till
	MW-29	7/7/2005	118.12	38.3	95.9	80.9	dry	NA	NM	shallow
	MW-30	7/7/2005	121.84	35.6	101.3	86.3	30.35	91.49	6.67E-05	shallow
	MW-31	7/7/2005	92.95	40.1	67.8	52.8	dry	NA	NM	deep, till
	MW-32	7/7/2005	93.07	60.2	42.9	32.9	57.35	35.72	NM	deep, sandstone
	MW-33	7/7/2005	115.50	31.9	98.6	83.6	12.94	102.56	NM	shallow
	MW-34	7/7/2005	126.51	39.3	102.2	87.2	23.09	103.42	2.64E-07	shallow
	MW-35	7/7/2005	118.24	32.3	100.9	85.9	25.79	92.45	1.37E-04	shallow
Monitoring Well Installation Status	Monitoring Well	Date of Slug Test	Top of Casing ft. (1)	Constructed Depth (2) ft.	Screen Elevations		Depth to Water (3) ft.	July 7, 2005 Water Elevation ft.	Hydraulic Conductivity cm/sec	Shallow or deep aquifer
					Top ft.	Bottom ft.				
Pre-Lateral Expansion (Existing)	MW-6	12/2/1989	137.05	88.9	58.19	48.19	68.67	68.38	1.15E-07	deep, till
	MW-7	>2003	140.03	43.1	106.97	96.97	26.38	113.65	1.15E-07	shallow
	MW-9	7/11/2003	49.60	66.9	-7.27	-17.27	20.73	28.87	1.38E-02	deep, sandstone
	MW-10	6/30/1989	50.63	26.7	33.93	23.93	21.09	29.54	1.32E-06	shallow
	MW-11	7/11/2003	44.64	46.0	3.63	-6.37	15.75	28.89	1.14E-03	deep, sandstone
	MW-12	7/11/2003	44.44	19.9	34.59	24.59	17.28	27.16	5.70E-04	shallow
	MW-13	7/11/2003	44.43	90.1	-35.63	-45.63	12.70	31.73	1.99E-02	deep, sandstone
	MW-14	>2003	105.31	31.4	83.88	73.88	-	NA	3.00E-06	shallow
	MW-15		144.96	31.7	123.27	113.27	24.31	120.65	-	shallow
	MW-16	>2003	140.16	75.7	74.42	59.42	66.46	73.70	8.00E-06	deep, till
	MW-17	7/24/2003	139.99	28.7	121.31	111.31	26.43	113.56	6.19E-04	shallow
	MW-18		107.44	35.0	82.48	72.48	9.82	97.62	-	shallow
	MW-19	7/11/2003	48.60	41.7	11.95	6.95	18.98	29.62	6.31E-06	deep, sandstone
	MW-20	7/24/2003	48.51	26.7	31.79	21.79	13.82	34.69	3.92E-04	shallow
	MW-21		69.48	26.6	52.84	42.84	7.37	62.11	-	deep, till
	MW-22	7/24/2003	93.30	118.8	-15.50	-25.50	60.42	32.88	1.88E-02	deep, sandstone
	MW-23	7/11/2003	69.01	62.2	16.80	6.80	39.48	29.53	1.60E-03	shallow
	MW-24	4/14/2005	44.60	32.0	22.60	12.60	15.04	29.56	3.31E-05	shallow
	MW-25	4/14/2005	44.33	52.2	12.20	-7.80	15.21	29.12	2.24E-03	deep
	MW-26	4/14/2005	49.30	29.2	30.10	20.10	19.57	29.73	1.40E-03	shallow

(1) All elevations measured relative to site datum = 1,200 mean sea level.

(2) Constructed well depth measured from TOC, as reported on the well logs.

(3) Date of measurement July 7, 2005.

(4) August 12, 2005 slug testing.

(5) NM - not measured due to dry wells in lateral expansion area.

Bolded wells are shallow, screened in the oxidized till layer, and near lateral expansion area.

Appendix B

Field Sampling Forms

**Cass County Sanitary Landfill
PERMIT # 15-SDP-01-75C**

4/16/2025

Sampled by: Glenn Hunter

Weather conditions: Sunny, windy, 66 degrees

IDNR Form 542-1322

Monitoring Well: MW 15R (background)

Primary Sampling Method:

No-Purge for Appendix I

Secondary Sampling Method:

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	145.46
Well Depth	37.10
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	145.46
Well Depth	37.10
Top Screen	118.89
Bottom Screen	108.89
Bottom Well	108.39
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	31.00
Top sample	114.46
Bottom sample	110.46
Turbidity(NTU)	6.51

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	11:52	27.56	117.9	

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		6.51
Appendix I	Metals	150	150		6.51
Appendix I	VOC	240	240		6.51
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	145.46	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	37.10	Before purging	4/16/2025	11:52	27.56	117.90		0.0	
		After purging				145.46			
		Top of Screen after construction				118.89			
						-0.99	feet above (+) or below (-) top screen		
		Bottom of Well after construction				108.36			
		Bottom of Well	4/16/2025		37.10	108.36			
						0.00	feet sedimentation		
		Before Sampling				145.46			
		Recovery				145.46			
		Recovery				145.46			
		Recovery				145.46			
		Recovery				145.46			

IDNR Form 542-1322

Monitoring Well: MW 11

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

GENERAL INFORMATION

TOC	44.64
Well Depth	46.00
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	44.64
Well Depth	46.00
Top Screen	9.09
Bottom Screen	-0.91
Bottom Well	-1.36
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	40.00
Top sample	4.64
Bottom sample	0.64
Turbidity(NTU)	10.80

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	12:40	20	24.64	

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		10.80
Appendix I	Metals	150	150		10.80
Appendix I	VOC	240	240		10.80
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	44.64	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	46.00	Before purging	4/16/2025	12:40	20.00	24.64		0.0	
		After purging				44.64			
		Top of Screen after construction				9.09			
						15.55	feet above (+) or below (-) top screen		
		Bottom of Well after construction				-1.36			
		Bottom of Well	4/16/2025		46.00	-1.36			
						0.00	feet sedimentation		
		Before Sampling				44.64			
		Recovery				44.64			
		Recovery				44.64			
		Recovery				44.64			
		Recovery				44.64			

Monitoring Well: MW-12

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

GENERAL INFORMATION

TOC	44.44
Well Depth	19.90
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	44.44
Well Depth	19.90
Top Screen	34.59
Bottom Screen	24.59
Bottom Well	24.54
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	44.44
Bottom sample	40.44
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	Notes
4/16/2025		19.9	24.54	dry

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		0.00
Appendix I	Metals	150	150		0.00
Appendix I	VOC	240	240		0.00
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	44.44	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.90	Before purging	4/16/2025	0:00	19.90	24.54		#DIV/0!	
		After purging				44.44			
		Top of Screen after construction				34.59			
						-10.05	feet above (+) or below (-) top screen		
		Bottom of Well after construction				24.54			
		Bottom of Well	4/16/2025		19.90	24.54			
						0.00	feet sedimentation		
		Before Sampling				44.44			
		Recovery				44.44			
		Recovery				44.44			
		Recovery				44.44			
		Recovery				44.44			

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Monitoring Well: MW-13

Primary Sampling Method:

No-Purge for Appendix I

Secondary Sampling Method:

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	44.43
Well Depth	90.95
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	44.43
Well Depth	90.95
Top Screen	-35.63
Bottom Screen	-45.63
Bottom Well	-46.52
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	83.00
Top sample	-38.57
Bottom sample	-42.57
Turbidity(NTU)	5.57

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	12:51	17.25	27.18	

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		5.57
Appendix I	Metals	150	150		5.57
Appendix I	VOC	240	240		5.57
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	44.43	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	90.95	Before purging	4/16/2025	12:51	17.25	27.18		0.0	
		After purging				44.43			
		Top of Screen after construction				-35.63			
						62.81	feet above (+) or below (-) top screen		
		Bottom of Well after construction				-46.52			
		Bottom of Well	4/16/2025		90.95	-46.52			
						0.00	feet sedimentation		
		Before Sampling				44.43			
		Recovery				44.43			
		Recovery				44.43			
		Recovery				44.43			
		Recovery				44.43			

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Monitoring Well: MW-38R

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

GENERAL INFORMATION

TOC	74.19
Well Depth	50.60
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	74.19
Well Depth	50.60
Top Screen	34.60
Bottom Screen	24.60
Bottom Well	23.59
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	46.00
Top sample	28.19
Bottom sample	24.19
Turbidity(NTU)	6.56

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	13:56	47.8	26.39	

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		6.56
Appendix I	Metals	150	150		6.56
Appendix I	VOC	240	240		6.56
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	74.19	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	50.60	Before purging	4/16/2025	13:56	47.8	26.39		0.0	
		After purging				74.19			
		Top of Screen after construction				34.60			
						-8.21	feet above (+) or below (-) top screen		
		Bottom of Well after construction				23.59			
		Bottom of Well	4/16/2025		50.60	23.59			
						0.00	feet sedimentation		
		Before Sampling				74.19			
		Recovery				74.19			
		Recovery				74.19			
		Recovery				74.19			
		Recovery				74.19			

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Monitoring Well: MW-22

Primary Sampling Method: No-Purge for Appendix I

Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	93.3
Well Depth	118.80
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	93.3
Well Depth	118.80
Top Screen	-15.50
Bottom Screen	-25.50
Bottom Well	-25.50
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	112.00
Top sample	-18.70
Bottom sample	-22.70
Turbidity(NTU)	2.07

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	17:20	64.35	28.95	

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		2.07
Appendix I	Metals	150	150		2.07
Appendix I	VOC	240	240		2.07
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	93.3	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	118.80	Before purging	4/16/2025	17:20	64.35	28.95		0.0	
		After purging				93.30			
		Top of Screen after construction				-15.50			
						44.45	feet above (+) or below (-) top screen		
		Bottom of Well after construction				-25.50			
		Bottom of Well			118.80	-25.50			
						0.00	feet sedimentation		
		Before Sampling				93.30			
		Recovery				93.30			
		Recovery				93.30			
		Recovery				93.30			
		Recovery				93.30			

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Monitoring Well: MW-21

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

GENERAL INFORMATION

TOC	72.98
Well Depth	30.20
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	72.98
Well Depth	30.20
Top Screen	52.80
Bottom Screen	42.80
Bottom Well	42.78
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	24.00
Top sample	48.98
Bottom sample	44.98
Turbidity(NTU)	5.73

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	13:44	7.45	65.53	

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		5.73
Appendix I	Metals	150	150		5.73
Appendix I	VOC	240	240		5.73
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	72.98	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	30.20	Before purging	4/16/2025	13:44	7.45	65.53		0.0	
		After purging				72.98			
		Top of Screen after construction				52.80			
						12.73	feet above (+) or below (-) top screen		
		Bottom of Well after construction				42.78			
		Bottom of Well	4/16/2025		30.10	42.88			
						0.10	feet sedimentation		
		Before Sampling				72.98			
		Recovery				72.98			
		Recovery				72.98			
		Recovery				72.98			
		Recovery				72.98			

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Monitoring Well: MW-23

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

GENERAL INFORMATION

TOC	69.01
Well Depth	62.21
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	69.01
Well Depth	62.21
Top Screen	16.80
Bottom Screen	6.80
Bottom Well	6.80
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	56.00
Top sample	13.01
Bottom sample	9.01
Turbidity(NTU)	2.22

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	13:56	42.12	26.89	

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		2.22
Appendix I	Metals	150	150		2.22
Appendix I	VOC	240	240		2.22
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	69.01	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	62.21	Before purging	4/16/2025	13:56	42.12	26.89		0.0	
		After purging				69.01			
		Top of Screen after construction				16.80			
						52.21			feet above (+) or below (-) top screen
		Bottom of Well after construction				6.80			
		Bottom of Well	4/16/2025		62.20	6.81			
						0.01			feet sedimentation
		Before Sampling				69.01			App I
		Recovery				69.01			App II
		Recovery				69.01			
		Recovery				69.01			
		Recovery				69.01			

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Monitoring Well: MW-37R

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

GENERAL INFORMATION

TOC	62.91
Well Depth	43.60
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	62.91
Well Depth	43.60
Top Screen	30.50
Bottom Screen	20.50
Bottom Well	19.31
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	37.00
Top sample	25.91
Bottom sample	21.91
Turbidity(NTU)	2.67

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	14:10	35.53	27.38	

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		2.67
Appendix I	Metals	150	150		2.67
Appendix I	VOC	240	240		2.67
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	62.91	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	43.60	Before purging	4/16/2025	14:10	35.53	27.38		0.0	
		After purging				62.91			
		Top of Screen after construction				30.50			
						32.41	feet above (+) or below (-) top screen		
		Bottom of Well after construction				19.31			
		Bottom of Well	4/16/2025		43.60	19.31			
						0.00	feet sedimentation		
		Before Sampling				62.91			
		Recovery				62.91			
		Recovery				62.91			
		Recovery				62.91			
		Recovery				62.91			

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Monitoring Well: MW-19

Primary Sampling Method:

No-Purge for Appendix I

Secondary Sampling Method:

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	48.6
Well Depth	41.70
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	48.6
Well Depth	41.70
Top Screen	11.90
Bottom Screen	6.90
Bottom Well	6.90
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	36.00
Top sample	12.60
Bottom sample	8.60
Turbidity(NTU)	1.78

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	14:39	22.17	26.43	

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		1.78
Appendix I	Metals	150	150		1.78
Appendix I	VOC	240	240		1.78
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	48.6	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	41.70	Before purging	4/16/2025	14:39	22.17	26.43		0.0	
		After purging				48.60			
		Top of Screen after construction				11.90			
						14.53	feet above (+) or below (-) top screen		
		Bottom of Well after construction				6.90			
		Bottom of Well	4/16/2025		41.70	6.90			
						0.00	feet sedimentation		
		Before Sampling				48.60			
		Recovery				48.60			
		Recovery				48.60			
		Recovery				48.60			
		Recovery				48.60			

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Monitoring Well: MW-20

Primary Sampling Method:

No-Purge for Appendix I

Secondary Sampling Method:

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	48.51
Well Depth	26.70
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	48.51
Well Depth	26.70
Top Screen	31.81
Bottom Screen	21.81
Bottom Well	21.81
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	20.00
Top sample	28.51
Bottom sample	24.51
Turbidity(NTU)	12.00

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	14:54	16	32.51	

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		12.00
Appendix I	Metals	150	150		12.00
Appendix I	VOC	240	240		12.00
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	48.51	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	26.70	Before purging	4/16/2025	14:54	16.00	32.51		0.0	
		After purging				48.51			
		Top of Screen after construction				31.81			
						0.70	feet above (+) or below (-) top screen		
		Bottom of Well after construction				21.81			
		Bottom of Well	4/16/2025		26.70	21.81			
						0.00	feet sedimentation		
		Before Sampling				48.51			
		Recovery				48.51			
		Recovery				48.51			
		Recovery				48.51			
		Recovery				48.51			

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Monitoring Well: MW-24

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	44.6
Well Depth	32.00
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	44.6
Well Depth	32.00
Top Screen	22.60
Bottom Screen	12.60
Bottom Well	12.60
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	26.00
Top sample	18.60
Bottom sample	14.60
Turbidity(NTU)	24.00

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	15:10	18.3	26.3	

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		24.00
Appendix I	Metals	150	150		24.00
Appendix I	VOC	240	240		24.00
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	44.6	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	32.00	Before purging	4/16/2025	15:10	18.30	26.30		0.0	
		After purging				44.60			
		Top of Screen after construction				22.60			
						3.70	feet above (+) or below (-) top screen		
		Bottom of Well after construction				12.60			
		Bottom of Well	4/16/2025		32.00	12.60			
						0.00	feet sedimentation		
		Before Sampling				44.60			
		Recovery				44.60			
		Recovery				44.60			
		Recovery				44.60			
		Recovery				44.60			

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Monitoring Well: MW-36

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	72.22
Well Depth	62.80
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	72.22
Well Depth	62.80
Top Screen	29.70
Bottom Screen	9.70
Bottom Well	9.42
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	56.00
Top sample	16.22
Bottom sample	12.22
Turbidity(NTU)	3.33

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	15:44	44.67	27.55	

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		3.33
Appendix I	Metals	150	150		3.33
Appendix I	VOC	240	240		3.33
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	72.22	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	62.80	Before purging	4/16/2025	15:44	44.67	27.55		0.0	
		After purging				72.22			
		Top of Screen after construction				29.70			
						-2.15	feet above (+) or below (-) top screen		
		Bottom of Well after construction				9.42			
		Bottom of Well	4/16/2025		62.80	9.42			
						0.00	feet sedimentation		
		Before Sampling				72.22			
		Recovery				72.22			
		Recovery				72.22			
		Recovery				72.22			
		Recovery				72.22			

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Monitoring Well: MW-43

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

GENERAL INFORMATION

TOC	41.54
Well Depth	23.64
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	41.54
Well Depth	23.64
Top Screen	27.90
Bottom Screen	17.90
Bottom Well	17.90
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	18.00
Top sample	23.54
Bottom sample	19.54
Turbidity(NTU)	4.22

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	13:05	19.4	22.14	

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		4.22
Appendix I	Metals	150	150		4.22
Appendix I	VOC	240	240		4.22
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	41.54	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	23.64	Before purging	4/16/2025	13:05	19.40	22.14		0.0	
		After purging				41.54			
		Top of Screen after construction				27.90			
						-5.76	feet above (+) or below (-) top screen		
		Bottom of Well after construction				17.90			
		Bottom of Well	4/16/2025		23.60	17.94			
						0.04	feet sedimentation		
		Before Sampling				41.54			
		Recovery				41.54			
		Recovery				41.54			
		Recovery				41.54			
		Recovery				41.54			

IDNR Form 542-1322

Monitoring Well: MW-39

Primary Sampling Method:

No-Purge for Appendix I

Secondary Sampling Method:

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	111.9
Well Depth	32.70
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	111.9
Well Depth	32.70
Top Screen	99.20
Bottom Screen	79.20
Bottom Well	79.20
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	26.00
Top sample	85.90
Bottom sample	81.90
Turbidity(NTU)	4.19

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	16:06	19.65	92.25	

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		4.19
Appendix I	Metals	150	150		4.19
Appendix I	VOC	240	240		4.19
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	111.9	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	32.70	Before purging	4/16/2025	16:06	19.65	92.25		0.0	
		After purging				111.90			
		Top of Screen after construction				99.20			
						-6.95	feet above (+) or below (-) top screen		
		Bottom of Well after construction				79.20			
		Bottom of Well	4/16/2025		32.70	79.20			
						0.00	feet sedimentation		
		Before Sampling				111.90			
		Recovery				111.90			
		Recovery				111.90			
		Recovery				111.90			
		Recovery				111.90			

Cass County Sanitary Landfill
PERMIT # 15-SDP-01-75C

4/16/2025

Sampled by: Glenn Hunter

Weather conditions: Sunny, calm, 34-56 degrees

IDNR Form 542-1324

UD-0	Date	Time	Type	Flowing	Quantity	Discolored	Odor	Litter
	4/16/2025		Underdrain tile	no	dry		No	No
								Turbidity (NTU)

IDNR Form 542-1324

UD-1	Date	Time	Type	Flowing	Quantity	Discolored	Odor	Litter
	4/16/2025		Underdrain tile	no	dry	No	No	No
								Turbidity (NTU)

IDNR Form 542-1322

Monitoring Well: MW 15R (background)

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

GENERAL INFORMATION

TOC	145.46
Well Depth	37.10
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	145.46
Well Depth	37.10
Top Screen	118.89
Bottom Screen	108.89
Bottom Well	108.39
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	31.00
Top sample	114.46
Bottom sample	110.46
Turbidity(NTU)	3.49

Date	Time	Water Level	Water Elevation	Notes
7/15/2025	14:22	25.7	119.76	

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		3.49
Appendix I	Metals	150	150		3.49
Appendix I	VOC	240	240		3.49
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	145.46	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	37.10	Before purging	#REF!	14:22	25.70	119.76		0.0	
		After purging				145.46			
		Top of Screen after construction				118.89			
						0.87	feet above (+) or below (-) top screen		
		Bottom of Well after construction				108.36			
		Bottom of Well	#REF!		37.10	108.36			
						0.00	feet sedimentation		
		Before Sampling				145.46			
		Recovery				145.46			
		Recovery				145.46			
		Recovery				145.46			
		Recovery				145.46			

IDNR Form 542-1322

Monitoring Well: MW 11

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

GENERAL INFORMATION

TOC	44.64
Well Depth	46.00
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	44.64
Well Depth	46.00
Top Screen	9.09
Bottom Screen	-0.91
Bottom Well	-1.36
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	40.00
Top sample	4.64
Bottom sample	0.64
Turbidity(NTU)	7.88

Date	Time	Water Level	Water Elevation	Notes
7/15/2025	14:47	16.86	27.78	

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		7.88
Appendix I	Metals	150	150		7.88
Appendix I	VOC	240	240		7.88
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	44.64	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	46.00	Before purging	7/15/2025	14:47	16.86	27.78		0.0	
		After purging				44.64			
		Top of Screen after construction				9.09			
						18.69	feet above (+) or below (-) top screen		
		Bottom of Well after construction				-1.36			
		Bottom of Well	7/15/2025		46.00	-1.36			
						0.00	feet sedimentation		
		Before Sampling				44.64			
		Recovery				44.64			
		Recovery				44.64			
		Recovery				44.64			
		Recovery				44.64			

**Cass County Sanitary Landfill
PERMIT # 15-SDP-01-75C**

10/27/2025

Sampled by: Glenn Hunter

Weather conditions: Overcast 56 degrees

IDNR Form 542-1322

Monitoring Well: MW 15R (background)

Primary Sampling Method: No-Purge for Appendix I

Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	145.46
Well Depth	37.10
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	145.46
Well Depth	37.10
Top Screen	118.89
Bottom Screen	108.89
Bottom Well	108.39
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	31.00
Top sample	114.46
Bottom sample	110.46
Turbidity(NTU)	5.08

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	8:06	24.65	120.81	

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		5.08
Appendix I	Metals	150	150		5.08
Appendix I	VOC	240	240		5.08
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	145.46	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	37.10	Before purging	10/27/2025	8:06	24.65	120.81		0.0	
		After purging				145.46			
		Top of Screen after construction				118.89			
						1.92			feet above (+) or below (-) top screen
		Bottom of Well after construction				108.36			
		Bottom of Well	10/27/2025		37.10	108.36			
						0.00			feet sedimentation
		Before Sampling				145.46			
		Recovery				145.46			
		Recovery				145.46			
		Recovery				145.46			
		Recovery				145.46			

Monitoring Well: MW 11

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

GENERAL INFORMATION

TOC	44.64
Well Depth	46.00
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	44.64
Well Depth	46.00
Top Screen	9.09
Bottom Screen	-0.91
Bottom Well	-1.36
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	40.00
Top sample	4.64
Bottom sample	0.64
Turbidity(NTU)	2.35

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	8:55	19.02	25.62	

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		2.35
Appendix I	Metals	150	150		2.35
Appendix I	VOC	240	240		2.35
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	44.64	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	46.00	Before purging	10/27/2025	8:55	19.02	25.62		0.0	
		After purging				44.64			
		Top of Screen after construction				9.09			
						16.53			feet above (+) or below (-) top screen
		Bottom of Well after construction				-1.36			
		Bottom of Well	10/27/2025		46.00	-1.36			
						0.00			feet sedimentation
		Before Sampling				44.64			
		Recovery				44.64			
		Recovery				44.64			
		Recovery				44.64			
		Recovery				44.64			

Monitoring Well: MW-12

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

GENERAL INFORMATION

TOC	44.44
Well Depth	19.90
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	44.44
Well Depth	19.90
Top Screen	34.59
Bottom Screen	24.59
Bottom Well	24.54
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	44.44
Bottom sample	40.44
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	Notes
10/27/2025		19.9	24.54	dry

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		0.00
Appendix I	Metals	150	150		0.00
Appendix I	VOC	240	240		0.00
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	44.44	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.90	Before purging	10/27/2025	0:00	19.90	24.54		#DIV/0!	
		After purging				44.44			
		Top of Screen after construction				34.59			
						-10.05			feet above (+) or below (-) top screen
		Bottom of Well after construction				24.54			
		Bottom of Well	10/27/2025		19.90	24.54			
						0.00			feet sedimentation
		Before Sampling				44.44			
		Recovery				44.44			
		Recovery				44.44			
		Recovery				44.44			
		Recovery				44.44			

IDNR Form 542-1322

Monitoring Well: MW-13

Primary Sampling Method:

No-Purge for Appendix I

Secondary Sampling Method:

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	44.43
Well Depth	90.95
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	44.43
Well Depth	90.95
Top Screen	-35.63
Bottom Screen	-45.63
Bottom Well	-46.52
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	84.00
Top sample	-39.57
Bottom sample	-43.57
Turbidity(NTU)	4.95

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	9:05	14.86	29.57	

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		4.95
Appendix I	Metals	150	150		4.95
Appendix I	VOC	240	240		4.95
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	44.43	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	90.95	Before purging	10/27/2025	9:05	14.86	29.57		0.0	
		After purging				44.43			
		Top of Screen after construction				-35.63			
						65.20			feet above (+) or below (-) top screen
		Bottom of Well after construction				-46.52			
		Bottom of Well	10/27/2025		90.95	-46.52			
						0.00			feet sedimentation
		Before Sampling				44.43			
		Recovery				44.43			
		Recovery				44.43			
		Recovery				44.43			
		Recovery				44.43			

IDNR Form 542-1322

Monitoring Well: MW-38R

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

GENERAL INFORMATION

TOC	74.19
Well Depth	50.60
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	74.19
Well Depth	50.60
Top Screen	34.60
Bottom Screen	24.60
Bottom Well	23.59
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	45.00
Top sample	29.19
Bottom sample	25.19
Turbidity(NTU)	4.25

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	9:36	46.65	27.54	

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		4.25
Appendix I	Metals	150	150		4.25
Appendix I	VOC	240	240		4.25
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	74.19	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	50.60	Before purging	10/27/2025	9:36	46.65	27.54		0.0	
		After purging				74.19			
		Top of Screen after construction				34.60			
						-7.06	feet above (+) or below (-) top screen		
		Bottom of Well after construction				23.59			
		Bottom of Well	10/27/2025		50.60	23.59			
						0.00	feet sedimentation		
		Before Sampling				74.19			
		Recovery				74.19			
		Recovery				74.19			
		Recovery				74.19			
		Recovery				74.19			

IDNR Form 542-1322

Monitoring Well: MW-22

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

GENERAL INFORMATION

TOC	93.3
Well Depth	118.80
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	93.3
Well Depth	118.80
Top Screen	-15.50
Bottom Screen	-25.50
Bottom Well	-25.50
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	110.00
Top sample	-16.70
Bottom sample	-20.70
Turbidity(NTU)	1.56

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	12:44	61.01	32.29	

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		1.56
Appendix I	Metals	150	150		1.56
Appendix I	VOC	240	240		1.56
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	93.3	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	118.80	Before purging	10/27/2025	12:44	61.01	32.29		0.0	
		After purging				93.30			
		Top of Screen after construction				-15.50			
						47.79	feet above (+) or below (-) top screen		
		Bottom of Well after construction				-25.50			
		Bottom of Well			118.80	-25.50			
						0.00	feet sedimentation		
		Before Sampling				93.30			
		Recovery				93.30			
		Recovery				93.30			
		Recovery				93.30			
		Recovery				93.30			

IDNR Form 542-1322

Monitoring Well: MW-21

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

GENERAL INFORMATION

TOC	72.98
Well Depth	30.20
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	72.98
Well Depth	30.20
Top Screen	52.80
Bottom Screen	42.80
Bottom Well	42.78
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	24.00
Top sample	48.98
Bottom sample	44.98
Turbidity(NTU)	4.04

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	9:52	10.78	62.2	

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		4.04
Appendix I	Metals	150	150		4.04
Appendix I	VOC	240	240		4.04
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	72.98	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	30.20	Before purging	10/27/2025	9:52	10.78	62.20		0.0	
		After purging				72.98			
		Top of Screen after construction				52.80			
						9.40	feet above (+) or below (-) top screen		
		Bottom of Well after construction				42.78			
		Bottom of Well	10/27/2025		30.10	42.88			
						0.10	feet sedimentation		
		Before Sampling				72.98			
		Recovery				72.98			
		Recovery				72.98			
		Recovery				72.98			
		Recovery				72.98			

IDNR Form 542-1322

Monitoring Well: MW-23

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

GENERAL INFORMATION

TOC	69.01
Well Depth	62.21
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	69.01
Well Depth	62.21
Top Screen	16.80
Bottom Screen	6.80
Bottom Well	6.80
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	56.00
Top sample	13.01
Bottom sample	9.01
Turbidity(NTU)	3.27

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	10:03	40.72	28.29	

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		3.27
Appendix I	Metals	150	150		3.27
Appendix I	VOC	240	240		3.27
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	69.01	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	62.21	Before purging	10/27/2025	10:03	40.72	28.29		0.0	
		After purging				69.01			
		Top of Screen after construction				16.80			
						52.21			feet above (+) or below (-) top screen
		Bottom of Well after construction				6.80			
		Bottom of Well	10/27/2025		62.20	6.81			
						0.01			feet sedimentation
		Before Sampling				69.01			App I
		Recovery				69.01			App II
		Recovery				69.01			
		Recovery				69.01			
		Recovery				69.01			

IDNR Form 542-1322

Monitoring Well: MW-37R

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

GENERAL INFORMATION

TOC	62.91
Well Depth	43.60
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	62.91
Well Depth	43.60
Top Screen	30.50
Bottom Screen	20.50
Bottom Well	19.31
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	36.00
Top sample	26.91
Bottom sample	22.91
Turbidity(NTU)	2.02

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	13:22	33.85	29.06	

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		2.02
Appendix I	Metals	150	150		2.02
Appendix I	VOC	240	240		2.02
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	62.91	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	43.60	Before purging	10/27/2025	13:22	33.85	29.06		0.0	
		After purging				62.91			
		Top of Screen after construction				30.50			
						32.41			feet above (+) or below (-) top screen
		Bottom of Well after construction				19.31			
		Bottom of Well	10/27/2025		43.60	19.31			
						0.00			feet sedimentation
		Before Sampling				62.91			
		Recovery				62.91			
		Recovery				62.91			
		Recovery				62.91			
		Recovery				62.91			

IDNR Form 542-1322

Monitoring Well: MW-19

Primary Sampling Method: No-Purge for Appendix I

Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	48.6
Well Depth	41.70
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	48.6
Well Depth	41.70
Top Screen	11.90
Bottom Screen	6.90
Bottom Well	6.90
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	36.00
Top sample	12.60
Bottom sample	8.60
Turbidity(NTU)	2.31

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	10:38	20.5	28.1	

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		2.31
Appendix I	Metals	150	150		2.31
Appendix I	VOC	240	240		2.31
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	48.6	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	41.70	Before purging	10/27/2025	10:38	20.50	28.10		0.0	
		After purging				48.60			
		Top of Screen after construction				11.90			
						16.20	feet above (+) or below (-) top screen		
		Bottom of Well after construction				6.90			
		Bottom of Well	10/27/2025		41.70	6.90			
						0.00	feet sedimentation		
		Before Sampling				48.60			
		Recovery				48.60			
		Recovery				48.60			
		Recovery				48.60			
		Recovery				48.60			

IDNR Form 542-1322

Monitoring Well: MW-20

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

GENERAL INFORMATION

TOC	48.51
Well Depth	26.70
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	48.51
Well Depth	26.70
Top Screen	31.81
Bottom Screen	21.81
Bottom Well	21.81
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	20.00
Top sample	28.51
Bottom sample	24.51
Turbidity(NTU)	8.06

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	10:47	16.71	31.8	

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		8.06
Appendix I	Metals	150	150		8.06
Appendix I	VOC	240	240		8.06
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	48.51	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	26.70	Before purging	10/27/2025	10:47	16.71	31.80		0.0	
		After purging				48.51			
		Top of Screen after construction				31.81			
						-0.01	feet above (+) or below (-) top screen		
		Bottom of Well after construction				21.81			
		Bottom of Well	10/27/2025		26.70	21.81			
						0.00	feet sedimentation		
		Before Sampling				48.51			
		Recovery				48.51			
		Recovery				48.51			
		Recovery				48.51			
		Recovery				48.51			

IDNR Form 542-1322

Monitoring Well: MW-24

Primary Sampling Method: No-Purge for Appendix I

Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	44.6
Well Depth	32.00
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	44.6
Well Depth	32.00
Top Screen	22.60
Bottom Screen	12.60
Bottom Well	12.60
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	26.00
Top sample	18.60
Bottom sample	14.60
Turbidity(NTU)	9.94

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	11:00	16.48	28.12	

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		9.94
Appendix I	Metals	150	150		9.94
Appendix I	VOC	240	240		9.94
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	44.6	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	32.00	Before purging	10/27/2025	11:00	16.48	28.12		0.0	
		After purging				44.60			
		Top of Screen after construction				22.60			
						5.52	feet above (+) or below (-) top screen		
		Bottom of Well after construction				12.60			
		Bottom of Well	10/27/2025		32.00	12.60			
						0.00	feet sedimentation		
		Before Sampling				44.60			
		Recovery				44.60			
		Recovery				44.60			
		Recovery				44.60			
		Recovery				44.60			

IDNR Form 542-1322

Monitoring Well: MW-36

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

GENERAL INFORMATION

TOC	72.22
Well Depth	62.80
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	72.22
Well Depth	62.80
Top Screen	29.70
Bottom Screen	9.70
Bottom Well	9.42
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	56.00
Top sample	16.22
Bottom sample	12.22
Turbidity(NTU)	25.10

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	11:28	43.82	28.4	

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		25.10
Appendix I	Metals	150	150		25.10
Appendix I	VOC	240	240		25.10
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	72.22	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	62.80	Before purging	10/27/2025	11:28	43.82	28.40		0.0	
		After purging				72.22			
		Top of Screen after construction				29.70			
						-1.30	feet above (+) or below (-) top screen		
		Bottom of Well after construction				9.42			
		Bottom of Well	10/27/2025		62.80	9.42			
						0.00	feet sedimentation		
		Before Sampling				72.22			
		Recovery				72.22			
		Recovery				72.22			
		Recovery				72.22			
		Recovery				72.22			

IDNR Form 542-1322

Monitoring Well: MW-43

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

GENERAL INFORMATION

TOC	41.54
Well Depth	23.64
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	41.54
Well Depth	23.64
Top Screen	27.90
Bottom Screen	17.90
Bottom Well	17.90
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	18.00
Top sample	23.54
Bottom sample	19.54
Turbidity(NTU)	9.09

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	9:20	18.16	23.38	

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		9.09
Appendix I	Metals	150	150		9.09
Appendix I	VOC	240	240		9.09
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	41.54	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	23.64	Before purging	10/27/2025	9:20	18.16	23.38		0.0	
		After purging				41.54			
		Top of Screen after construction				27.90			
						-4.52	feet above (+) or below (-) top screen		
		Bottom of Well after construction				17.90			
		Bottom of Well	10/27/2025		23.60	17.94			
						0.04	feet sedimentation		
		Before Sampling				41.54			
		Recovery				41.54			
		Recovery				41.54			
		Recovery				41.54			
		Recovery				41.54			

IDNR Form 542-1322

Monitoring Well: MW-39

Primary Sampling Method:

No-Purge for Appendix I

Secondary Sampling Method:

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	111.9
Well Depth	32.70
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	111.9
Well Depth	32.70
Top Screen	99.20
Bottom Screen	79.20
Bottom Well	79.20
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	26.00
Top sample	85.90
Bottom sample	81.90
Turbidity(NTU)	1.62

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	11:44	15.9	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		1.62
Appendix I	Metals	150	150		1.62
Appendix I	VOC	240	240		1.62
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

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

TOC	111.9	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	32.70	Before purging	10/27/2025	11:44	15.90	96.00		0.0	
		After purging				111.90			
		Top of Screen after construction				99.20			
						-3.20	feet above (+) or below (-) top screen		
		Bottom of Well after construction				79.20			
		Bottom of Well	10/27/2025		32.70	79.20			
						0.00	feet sedimentation		
		Before Sampling				111.90			
		Recovery				111.90			
		Recovery				111.90			
		Recovery				111.90			
		Recovery				111.90			

Cass County Sanitary Landfill
PERMIT # 15-SDP-01-75C

Sampled by: Glenn Hunter

Sunny, calm, 34-56 degrees

IDNR Form 542-1324

UD-0

IDNR Form 542-1324

UD-1

IDNR Form 542-1322

Monitoring Well: MW-13

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

GENERAL INFORMATION

TOC	44.43
Well Depth	90.95
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	44.43
Well Depth	90.95
Top Screen	-35.63
Bottom Screen	-45.63
Bottom Well	-46.52
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	80.00
Top sample	-35.57
Bottom sample	-39.57
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	Notes
12/5/2025	13:18	15.22	29.21	

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			0.00
Appendix I	Metals	150			0.00
Appendix I	VOC	240	240		0.00
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			240	0	

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

TOC	44.43	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	90.95	Before purging	12/5/2025	13:18	15.22	29.21		0.0	
		After purging				44.43			
		Top of Screen after construction				-35.63			
						64.84	feet above (+) or below (-) top screen		
		Bottom of Well after construction				-46.52			
		Bottom of Well	12/5/2025		90.95	-46.52			
						0.00	feet sedimentation		
		Before Sampling				44.43			
		Recovery				44.43			
		Recovery				44.43			
		Recovery				44.43			
		Recovery				44.43			

IDNR Form 542-1322

Monitoring Well: MW-43

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

GENERAL INFORMATION

TOC	41.54
Well Depth	23.64
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	41.54
Well Depth	23.64
Top Screen	27.90
Bottom Screen	17.90
Bottom Well	17.90
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	18.00
Top sample	23.54
Bottom sample	19.54
Turbidity(NTU)	13.10

Date	Time	Water Level	Water Elevation	Notes
12/5/2025	13:29	18.19	23.35	

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		13.10
Appendix I	Metals	150	250		13.10
Appendix I	VOC	240			13.10
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			260	0	

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

TOC	41.54	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	23.64	Before purging	12/5/2025	13:29	18.19	23.35		0.0	
		After purging				41.54			
		Top of Screen after construction				27.90			
						-4.55	feet above (+) or below (-) top screen		
		Bottom of Well after construction				17.90			
		Bottom of Well	12/5/2025		23.60	17.94			
						0.04	feet sedimentation		
		Before Sampling				41.54			
		Recovery				41.54			
		Recovery				41.54			
		Recovery				41.54			
		Recovery				41.54			

Appendix C

Statistical Report

Appendix C.1
Spring Statistical Evaluation Report

Results of the Ground Water Statistics

for Cass County Sanitary Landfill

First Semi-Annual Monitoring Events in 2025

Prepared for:
Cass County Sanitary Landfill
Atlantic, IA

Prepared by:
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(847) 464-1355

July 2025

INTRODUCTION

This report contains the results of the statistical analyses used to evaluate the ground water data obtained during the first semi-annual monitoring event in 2025 at the Cass County Landfill. The ground water monitoring wells were sampled on April 16, 2025 and analyzed for the parameters required by permit. 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. Both intrawell and interwell methodologies are described and then applied to the Cass County Landfill data. The statistical plan conforms with IAC 567, Chapter 113.10, USEPA Guidance document (“*Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Unified Guidance*”, March 2009), and the American Society for Testing and Materials (ASTM) standard D6312-98, *Developing Appropriate Statistical Approaches for Ground-Water Detection Monitoring Programs*.

Ground Water Monitoring Program

The groundwater monitoring network for Cass County Landfill includes wells MW-15R (upgradient), MW-12, MW-19, MW-20, MW-21, MW-24, MW-37R, MW-38R, MW-39, MW-43, UD-0, and UD-1 in the water table and MW-22 (upgradient), MW-11, MW-23, MW-36, and MW-13 in the Dakota sandstone. Each of the groundwater monitoring wells is to be sampled at least semiannually and analyzed for the detection monitoring parameters listed below.

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. Both of these methods were applied to the Cass 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. The DUMPStat program is consistent with all USEPA regulations and guidance and the ASTM D6312-98 guidance. Ground water statistics are to be done on the constituents listed.

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 will 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 – Water Table

The background data used in this statistical analysis includes the ground water data collected from ground water well MW-15R during the period from 2010 through the current data. A summary of the background data from monitoring well MW-15R 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 MW-19, MW-20, MW-21, MW-24, MW-37R, MW-38R, MW-39, and MW-43, 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.

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

Well	Parameter	Result, µg/L	Prediction Limit, µg/L	Prediction Limit Type	Verified/ Awaiting verification
MW-19	Barium	1240	683.1743	Lognormal	Verified
	Cobalt	22.6	7.9000	Nonparametric	Verified
	Nickel	52.9	6.5000	Nonparametric	Verified
MW-20	Arsenic	71.2	19.7000	Nonparametric	Verified
	Barium	1780	683.1743	Lognormal	Verified
	Nickel	9.5	6.5000	Nonparametric	Verified
MW-21	Barium	1050	683.1743	Lognormal	Verified
	Cobalt	19.0	7.9000	Nonparametric	Verified
	Nickel	18.0	6.5000	Nonparametric	Verified
MW-24	Barium	779	683.1743	Lognormal	Awaiting verification
	Nickel	31.3	6.5000	Nonparametric	Verified
MW-37R	Barium	687	683.1743	Lognormal	Verified
	Selenium	50.3	5.0000	Nonparametric	Verified
MW-39	Selenium	71.5	5.0000	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. 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.

Results of the Interwell Statistics – Dakota

The background data used in this statistical analysis includes the ground water data collected from ground water well MW-22 during the period from 2008 through the current data. A summary of the background data from monitoring well MW-22 is listed in Attachment C, 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 MW-11, MW-13, MW-23, and MW-36, 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.

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

Well	Parameter	Result, µg/L	Prediction Limit, µg/L	Prediction Limit Type	Verified/ Awaiting verification
MW-11	Arsenic	17.7	1.3500	Nonparametric	Verified
	Barium	608	295.8863	Normal	Verified
	Cadmium	1.6	1.5800	Nonparametric	Awaiting verification
	Cobalt	14.2	1.7300	Nonparametric	Verified
	Copper	104	16.4000	Nonparametric	Awaiting verification
	Lead	3.0	1.0000	Nonparametric	Awaiting verification
	Nickel	23.1	10.7500	Nonparametric	Awaiting verification
	Vanadium	7.5	3.0000	Nonparametric	Awaiting verification
	Zinc	131	34.1000	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. 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 2% and the test becomes sensitive to 4 standard deviation unit increases over background.

Intrawell Statistics

Intrawell statistics are appropriate for facilities where the upgradient wells do not accurately characterize the natural ground water conditions downgradient from the facility. This may be due to different hydrogeological conditions where the wells are screened, having too few upgradient wells to account for the spatial variability, or the site exhibiting no definable hydraulic gradient. Intrawell statistics compare new measurements to the historical data at each ground water monitoring well independently. It is recommended that at least eight background samples be obtained prior to performing the statistics.

The most useful technique for intrawell comparisons is the combined Shewhart-CUSUM control chart. This control chart procedure is useful because it will detect releases both in terms of the constituent concentration and cumulative increases. This method is also extremely sensitive to sudden and gradual releases. A requirement for constructing these control charts is that the parameter is detected at a frequency greater than or equal to 25%, otherwise the data variance is not properly defined.

The combined Shewhart-CUSUM control chart assumes that the data are independent and normally distributed with a fixed mean and a constant variance. Independent data is much more critical than the normality assumption. To achieve independence, it is recommended that data are collected no more frequently than quarterly to account for seasonal variation. The combined Shewhart-CUSUM control chart is extremely robust to deviations from normality. Because the control charts do not use a specific multiplier based on a normal distribution, it is more conservative to assume normality.

It is recommended that at least eight rounds of data be available to provide a reliable estimate of the mean and standard deviation of the parameter concentration, although the control charts will be generated with as few as four data points. Having only four data points may produce greater uncertainty in the mean and standard deviation of the background data, leading to higher control limits, thus having a potentially high false negative rate.

Many groundwater monitoring parameters are not detected at a frequency great enough to generate the combined Shewhart-CUSUM control charts. For constituents that are detected less than 25% of the time at a particular well, the data should be plotted as a time series until a sufficient number of data points are available to provide a 99% confidence nonparametric prediction limit. Thirteen independent measurements (with 1 resample) are necessary to achieve a 99% confidence (1% false positive rate) nonparametric prediction limit. Eight independent measurements (for pass 1 of 2 resamples) are necessary to achieve a 99% confidence nonparametric prediction limit. The nonparametric prediction limit is the largest determination out of the data set collected for that well and parameter. If the detection frequency is 0% after thirteen samples have been collected, the practical quantitation limit (PQL) becomes the nonparametric prediction limit.

In developing the statistical background, the historical data must be thoroughly screened for anomalous data due to sampling error, analytical error, or simply by chance alone. An erroneous data point, if not removed prior to the mean and variance computations, would yield a larger control limit thus increasing the false negative rate. The DUMPStat® program screens for outliers using the Dixon test. Anomalous data will still be plotted on the graphs (with a unique symbol) but will not be included in the calculations.

The verification resample plan is an integral function of the statistical plan to reduce the probability that anomalous data obtained after the background has been established, is indicative of a release.

The background data for each well and constituent is tested for existing trends using Sen's nonparametric estimate of trend. If contamination exists prior to completing the background, the control limits could be potentially high and this control chart method would not be able to detect an increasing trend unless the increase is severe.

Results of the Intrawell Statistics

The detection monitoring constituents were evaluated using the combined Shewhart-CUSUM control chart method. The background used to determine control limits includes the data obtained from 2008 through 2023 for wells MW-11, MW-15R (upgradient), MW-19, MW-20, MW-21, MW-22 (upgradient), MW-23,

MW-36, and MW-39. The background was extended through May 2024 for wells MW-37R and MW-38R. There are fewer than eight round of data at wells MW-24, MW-43, and MW-13.

A summary of the intrawell statistics is included in Attachment D, Table 1 “Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts.” The control charts or time series graphs follow the summary table. For the most current data, the control limit exceedances detected are summarized in the table below.

Control Limit Exceedances at Cass County Landfill during the First Semi-Annual Monitoring Event in 2025

Well	Parameter	Result	CUSUM Value	Control Limit	Prediction Limit Type	Verified/ Awaiting verification
MW-11	Copper, µg/L	104	--	28.3000	Nonparametric	Awaiting verification
	Vanadium, µg/L	7.5	--	5.0000	Nonparametric	Awaiting verification
MW-15R (upgradient)	Arsenic, µg/L	19.7	--	4.5000	Nonparametric	Verified
	Barium, µg/L	662	877.8093	607.0582	Normal	Awaiting verification
	Cobalt, µg/L	7.9	--	2.0000	Nonparametric	Verified
	Lead, µg/L	1.0	--	0.518	Nonparametric	Awaiting verification
	Nickel, µg/L	6.5	--	5.0000	Nonparametric	Verified
	Vanadium, µg/L	5.2	--	5.0000	Nonparametric	Awaiting verification

Increasing trends were detected in the background data for barium at MW-15R, barium at MW-19, barium at MW-21, nickel at MW-24, and barium at MW-39.

A control chart factor was selected to provide a balance of the site-wide false positive and false negative rates. A statistical power curve indicates the expected false assessments for the site as a whole. The site-wide false positive rate is 9% and the test becomes sensitive to 4 standard deviation units over background.

Assessment Statistics

The trace metals which have exceeded ground water protection standards (GWPS) or verified statistical exceedances were evaluated against the GWPS using confidence limits (Attachment E). 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 GWPS 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-20 (63.530 µg/L) exceeded the GWPS of 10 µg/L.

The 95% LCL for cobalt at MW-11 (2.950 µg/L) exceeded the GWPS of 2.1 µg/L.

The 95% LCL for cobalt at MW-19 (20.033 µg/L) exceeded the GWPS of 2.1 µg/L.

The 95% LCL for cobalt at MW-20 (3.992 µg/L) exceeded the GWPS of 2.1 µg/L.

The 95% LCL for cobalt at MW-21 (3.479 µg/L) exceeded the GWPS of 2.1 µg/L.

The 95% LCL for cobalt at MW-24 (2.143 µg/L) exceeded the GWPS of 2.1 µg/L.

The 95% LCL for selenium at MW-39 (64.703 µg/L) exceeded the GWPS of 50 µg/L.

The calculated 95% LCL for the remainder of the trace metals did not exceed 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. VOCs detected in the ground water at Cass County Landfill during the first semi-annual monitoring event in 2025 are summarized below. Historical VOC detections are summarized in Attachment F.

Organic compounds detected 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-19	Chlorobenzene	1.4	1	Verified	100
MW-20	1,4-Dichlorobenzene	1.6	1	Verified	75
	Benzene	1.7	1	Verified	5
	Chlorobenzene	2.3	1	Verified	100

The VOCs detections did not exceed GWPS. The verified VOC detections were evaluated against the GWPS using confidence limits (Attachment G). The analysis was conducted to evaluate whether verified concentrations are significantly above the water quality standard. The calculated LCLs for historically detected VOCs are below the respective GWPS.

Attachment A

Ground Water Data

Table 1

Analytical Data Summary for 4/16/2025

Constituents	Units	MW-11	MW-13	MW-15R	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-27	MW-28
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-Dichloroethene	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	<5	<5	<5	<5	<5	<5	<5	<5	<5		
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	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<1.0		
2,4,5-T	ug/L					<5						
2-Butanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10		
2-Hexanone	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5		
4-Methyl-2-Pentanone	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	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0	<1.0	<1.0	<1.0
Arsenic	ug/L	17.7	<2.0	19.7	<2.0	71.2	<2.0	<2.0	<2.0	4.2	<2.0	<2.0
Barium	ug/L	608.0	218.0	662.0	1240.0	1780.0	1050.0	283.0	39.1	779.0	329.0	80.0
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	<1.0		
Beryllium	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		
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	ug/L	1.6	<2	.3	.3	<2	<2	.2	<2	1.0	<2	.2
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	<1.0	<1.0	<1.0	1.4	2.3	<1.0	<1.0	<1.0	<1.0		
Chlorodibromomethane	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	ug/L	4.5	1.9	2.0	2.2	1.5	1.4	1.7	1.8	1.1	2.1	1.9
cis-1,2-Dichloroethene	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	ug/L	14.2	<5	7.9	22.6	3.6	19.0	<5	<5	2.9	<5	<5
Copper	ug/L	104.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Endosulfan I	ug/L				<.05	<.05						
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1		
gamma-Chlordane	ug/L				<.05	<.05						
Iodomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Lead	ug/L	3.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Bromide	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	ug/L	23.1	<5.0	6.5	52.9	9.5	18.0	<5.0	<5.0	31.3	<5.0	<5.0
Selenium	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Silver	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		
Sulfate	mg/L				13.3	<1.0	15.8					
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Thallium	ug/L	.6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1		
trans-1,2-Dichloroethene	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		
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Vanadium	ug/L	7.5	<2.0	5.2	<2.0	2.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
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	ug/L	131.0	<5.0	12.8	5.8	<5.0	<5.0	<5.0	5.0	<5.0	<5.0	6.1

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

Table 1

Analytical Data Summary for 4/16/2025

Constituents	MW-29	MW-36	MW-37R	MW-38R	MW-39	MW-40	MW-41	MW-43
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-Dichloroethene		<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
2,4,5-T								
2-Butanone		<10	<10	<10	<10			<10
2-Hexanone		<5	<5	<5	<5			<5
4-Methyl-2-Pentanone		<5	<5	<5	<5			<5
Acetone		<10	<10	<10	<10			<10
Acrylonitrile		<5	<5	<5	<5			<5
Antimony	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	6.8
Barium	303.0	134.0	687.0	215.0	95.8	607.0	223.0	392.0
Benzene		<1.0	<1.0	<1.0	<1.0			<1.0
Beryllium	<.5	<.5	<.5	<.5	<.5	2.2	<.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	<.2	1.0	<.2	.2	<.2	4.3	.3	<.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
Chlorodibromomethane		<1	<1	<1	<1			<1
Chloroethane		<1	<1	<1	<1			<1
Chloroform		<1	<1	<1	<1			<1
Chloromethane		<1	<1	<1	<1			<1
Chromium	3.8	1.3	1.8	3.2	1.8	39.8	1.0	2.9
cis-1,2-Dichloroethene		<1	<1	<1	<1			<1
cis-1,3-Dichloropropene		<1	<1	<1	<1			<1
Cobalt	<.5	1.2	<.5	.5	<.5	61.9	<.5	2.5
Copper	<5.0	<5.0	<5.0	<5.0	<5.0	57.8	<5.0	<5.0
Endosulfan I								
Ethylbenzene		<1	<1	<1	<1			<1
gamma-Chlordane								
Iodomethane		<1	<1	<1	<1			<1
Lead	<1.0	<1.0	<1.0	<1.0	<1.0	52.5	<1.0	<1.0
Methylene Bromide		<1	<1	<1	<1			<1
Methylene Chloride		<5	<5	<5	<5			<5
Nickel	<5.0	6.2	<5.0	<5.0	<5.0	67.0	<5.0	6.4
Selenium	2.4	<2.0	50.3	3.2	71.5	<2.0	<2.0	<2.0
Silver	<5	<5	<5	<5	<5	<5	<5	<5
Styrene		<1	<1	<1	<1			<1
Sulfate								
Tetrachloroethene		<1	<1	<1	<1			<1
Thallium	<.5	<.5	<.5	<.5	<.5	.7	<.5	<.5
Toluene		<1	<1	<1	<1			<1
trans-1,2-Dichloroethene		<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
Trichloroethene		<1	<1	<1	<1			<1
Trichlorofluoromethane		<1	<1	<1	<1			<1
Vanadium	<2.0	<2.0	<2.0	<2.0	<2.0	66.8	<2.0	2.6
Vinyl Acetate		<5	<5	<5	<5			<5
Vinyl Chloride		<1	<1	<1	<1			<1
Xylenes, total		<2	<2	<2	<2			<2
Zinc	<5.0	<5.0	<5.0	<5.0	<5.0	95.1	<5.0	<5.0

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

Attachment B

Summary Tables and Graphs for the Interwell Comparisons – Water Table

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony	ug/L	MW-15R	03/11/2010	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	05/27/2010	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	08/31/2010	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	11/04/2010	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	02/16/2011	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	10/27/2011	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	04/26/2012	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	10/09/2012	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	02/20/2013	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	10/03/2013	ND	1.0300	2.0000	**
Antimony	ug/L	MW-15R	04/22/2014	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	10/14/2014	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	05/12/2015	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	07/29/2015	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	02/15/2016	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	10/31/2016	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	03/27/2017	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	11/13/2017	ND	0.2550	2.0000	**
Antimony	ug/L	MW-15R	06/06/2018	ND	3.0000	2.0000	**
Antimony	ug/L	MW-15R	11/27/2018	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	03/18/2019	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	12/02/2019	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	03/30/2020	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	11/17/2020	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	05/06/2021	ND	2.0000		
Antimony	ug/L	MW-15R	10/07/2021	ND	2.0000		
Antimony	ug/L	MW-15R	04/06/2022	ND	2.0000		
Antimony	ug/L	MW-15R	08/23/2022	ND	2.0000		
Antimony	ug/L	MW-15R	03/08/2023	ND	2.0000		
Antimony	ug/L	MW-15R	09/13/2023	ND	1.6500	2.0000	**
Antimony	ug/L	MW-15R	05/29/2024	ND	2.0000		
Antimony	ug/L	MW-15R	10/15/2024	ND	2.0000		
Antimony	ug/L	MW-15R	04/16/2025	ND	1.0000	2.0000	**
Arsenic	ug/L	MW-15R	03/11/2010	ND	1.0000		
Arsenic	ug/L	MW-15R	05/27/2010	ND	1.0000		
Arsenic	ug/L	MW-15R	08/31/2010	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	11/04/2010	ND	1.0000		
Arsenic	ug/L	MW-15R	02/16/2011	ND	1.0000		
Arsenic	ug/L	MW-15R	10/27/2011	ND	1.0000		
Arsenic	ug/L	MW-15R	04/26/2012		4.5000		
Arsenic	ug/L	MW-15R	10/09/2012	ND	1.0000		
Arsenic	ug/L	MW-15R	02/20/2013	ND	1.0000		
Arsenic	ug/L	MW-15R	10/03/2013	ND	0.6440	1.0000	**
Arsenic	ug/L	MW-15R	04/22/2014	ND	1.0000		
Arsenic	ug/L	MW-15R	10/14/2014	ND	1.0000		
Arsenic	ug/L	MW-15R	05/12/2015	ND	1.4700	1.0000	**
Arsenic	ug/L	MW-15R	07/29/2015	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	02/15/2016	ND	1.3400	1.0000	**
Arsenic	ug/L	MW-15R	10/31/2016	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	03/27/2017	ND	0.5430	1.0000	**
Arsenic	ug/L	MW-15R	11/13/2017	ND	0.6080	1.0000	**
Arsenic	ug/L	MW-15R	06/06/2018		1.6700		
Arsenic	ug/L	MW-15R	11/27/2018	ND	1.1100	1.0000	**
Arsenic	ug/L	MW-15R	03/18/2019	ND	0.8590	1.0000	**
Arsenic	ug/L	MW-15R	12/02/2019	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	03/30/2020	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	11/17/2020	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	05/06/2021	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	10/07/2021		2.8400		
Arsenic	ug/L	MW-15R	04/06/2022	ND	0.8210	1.0000	**
Arsenic	ug/L	MW-15R	08/23/2022	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	03/08/2023	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	09/13/2023	ND	0.6400	1.0000	**
Arsenic	ug/L	MW-15R	05/29/2024		9.1300		
Arsenic	ug/L	MW-15R	10/15/2024		9.1000		
Arsenic	ug/L	MW-15R	04/16/2025		19.7000		
Barium	ug/L	MW-15R	03/11/2010		54.7000		
Barium	ug/L	MW-15R	05/27/2010		50.3000		
Barium	ug/L	MW-15R	08/31/2010		120.0000		
Barium	ug/L	MW-15R	11/04/2010		86.6000		
Barium	ug/L	MW-15R	02/16/2011		84.8000		
Barium	ug/L	MW-15R	10/27/2011		79.1000		
Barium	ug/L	MW-15R	04/26/2012		251.0000		
Barium	ug/L	MW-15R	10/09/2012		140.0000		

* - 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	
Barium	ug/L	MW-15R	02/20/2013		131.0000		
Barium	ug/L	MW-15R	10/03/2013		160.0000		
Barium	ug/L	MW-15R	04/22/2014		173.5000		
Barium	ug/L	MW-15R	10/14/2014		226.0000		
Barium	ug/L	MW-15R	05/12/2015		195.0000		
Barium	ug/L	MW-15R	07/29/2015		175.0000		
Barium	ug/L	MW-15R	02/15/2016		187.0000		
Barium	ug/L	MW-15R	10/31/2016		168.0000		
Barium	ug/L	MW-15R	03/27/2017		217.0000		
Barium	ug/L	MW-15R	11/13/2017		193.0000		
Barium	ug/L	MW-15R	06/06/2018		170.0000		
Barium	ug/L	MW-15R	11/27/2018		199.0000		
Barium	ug/L	MW-15R	03/18/2019		263.0000		
Barium	ug/L	MW-15R	12/02/2019		208.0000		
Barium	ug/L	MW-15R	03/30/2020		205.0000		
Barium	ug/L	MW-15R	11/17/2020		224.0000		
Barium	ug/L	MW-15R	05/06/2021		217.0000		
Barium	ug/L	MW-15R	10/07/2021		207.0000		
Barium	ug/L	MW-15R	04/06/2022		257.0000		
Barium	ug/L	MW-15R	08/23/2022		248.0000		
Barium	ug/L	MW-15R	03/08/2023		265.0000		
Barium	ug/L	MW-15R	09/13/2023		306.0000		
Barium	ug/L	MW-15R	05/29/2024		351.0000		
Barium	ug/L	MW-15R	10/15/2024		376.0000		
Barium	ug/L	MW-15R	04/16/2025		662.0000		
Beryllium	ug/L	MW-15R	03/11/2010	ND	1.0000		
Beryllium	ug/L	MW-15R	05/27/2010	ND	1.0000		
Beryllium	ug/L	MW-15R	08/31/2010	ND	1.0000		
Beryllium	ug/L	MW-15R	11/04/2010	ND	1.0000		
Beryllium	ug/L	MW-15R	02/16/2011	ND	1.0000		
Beryllium	ug/L	MW-15R	10/27/2011	ND	1.0000		
Beryllium	ug/L	MW-15R	04/26/2012	ND	4.0000		*
Beryllium	ug/L	MW-15R	10/09/2012	ND	1.0000		
Beryllium	ug/L	MW-15R	02/20/2013	ND	1.0000		
Beryllium	ug/L	MW-15R	10/03/2013	ND	1.0000		
Beryllium	ug/L	MW-15R	04/22/2014	ND	1.0000		
Beryllium	ug/L	MW-15R	10/14/2014	ND	1.0000		
Beryllium	ug/L	MW-15R	05/12/2015	ND	1.0000		
Beryllium	ug/L	MW-15R	07/29/2015	ND	1.0000		
Beryllium	ug/L	MW-15R	02/15/2016	ND	1.0000		
Beryllium	ug/L	MW-15R	10/31/2016	ND	1.0000		
Beryllium	ug/L	MW-15R	03/27/2017	ND	1.0000		
Beryllium	ug/L	MW-15R	11/13/2017	ND	1.0000		
Beryllium	ug/L	MW-15R	06/06/2018	ND	1.0000		
Beryllium	ug/L	MW-15R	11/27/2018	ND	1.0000		
Beryllium	ug/L	MW-15R	03/18/2019	ND	1.0000		
Beryllium	ug/L	MW-15R	12/02/2019	ND	1.0000		
Beryllium	ug/L	MW-15R	03/30/2020	ND	1.0000		
Beryllium	ug/L	MW-15R	11/17/2020	ND	1.0000		
Beryllium	ug/L	MW-15R	05/06/2021	ND	1.0000		
Beryllium	ug/L	MW-15R	10/07/2021	ND	1.0000		
Beryllium	ug/L	MW-15R	04/06/2022	ND	1.0000		
Beryllium	ug/L	MW-15R	08/23/2022	ND	1.0000		
Beryllium	ug/L	MW-15R	03/08/2023	ND	1.0000		
Beryllium	ug/L	MW-15R	09/13/2023	ND	1.0000		
Beryllium	ug/L	MW-15R	05/29/2024	ND	1.0000		
Beryllium	ug/L	MW-15R	10/15/2024	ND	4.0000		*
Beryllium	ug/L	MW-15R	04/16/2025	ND	0.5000	1.0000	**
Cadmium	ug/L	MW-15R	03/11/2010		0.6490		
Cadmium	ug/L	MW-15R	05/27/2010		1.2500		
Cadmium	ug/L	MW-15R	08/31/2010		1.1100		
Cadmium	ug/L	MW-15R	11/04/2010		0.6100		
Cadmium	ug/L	MW-15R	02/16/2011		0.9480		
Cadmium	ug/L	MW-15R	10/27/2011		0.5140		
Cadmium	ug/L	MW-15R	04/26/2012	ND	0.8000	0.1110	**
Cadmium	ug/L	MW-15R	10/09/2012		0.7830		
Cadmium	ug/L	MW-15R	02/20/2013	ND	0.5000	0.1110	**
Cadmium	ug/L	MW-15R	10/03/2013		1.0700		
Cadmium	ug/L	MW-15R	04/22/2014		1.0470		
Cadmium	ug/L	MW-15R	10/14/2014	ND	0.2945	0.1110	**
Cadmium	ug/L	MW-15R	05/12/2015	ND	0.1950	0.1110	**
Cadmium	ug/L	MW-15R	07/29/2015	ND	0.1620	0.1110	**
Cadmium	ug/L	MW-15R	02/15/2016	ND	0.5000	0.1110	**
Cadmium	ug/L	MW-15R	10/31/2016	ND	0.0400	0.1110	**

* - 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	ug/L	MW-15R	03/27/2017	ND	0.0480	0.1110	**
Cadmium	ug/L	MW-15R	11/13/2017	ND	0.0890	0.1110	**
Cadmium	ug/L	MW-15R	06/06/2018	ND	0.5000	0.1110	**
Cadmium	ug/L	MW-15R	11/27/2018	ND	0.5000	0.1110	**
Cadmium	ug/L	MW-15R	03/18/2019	ND	0.5000	0.1110	**
Cadmium	ug/L	MW-15R	12/02/2019	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	03/30/2020	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	11/17/2020	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	05/06/2021	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	10/07/2021	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	04/06/2022	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	08/23/2022	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	03/08/2023	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	09/13/2023	ND	0.2000	0.1110	**
Cadmium	ug/L	MW-15R	05/29/2024	ND	0.1110		
Cadmium	ug/L	MW-15R	10/15/2024	ND	0.8000	0.1110	**
Cadmium	ug/L	MW-15R	04/16/2025		0.3000		
Chromium	ug/L	MW-15R	03/11/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	05/27/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	08/31/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	11/04/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	02/16/2011	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	10/27/2011	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	04/26/2012	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	10/09/2012	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	02/20/2013	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	10/03/2013	ND	3.0500	5.0000	**
Chromium	ug/L	MW-15R	04/22/2014	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	10/14/2014	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	05/12/2015	ND	5.0000		
Chromium	ug/L	MW-15R	07/29/2015	ND	5.0000		
Chromium	ug/L	MW-15R	02/15/2016	ND	5.0000		
Chromium	ug/L	MW-15R	10/31/2016	ND	0.7430	5.0000	**
Chromium	ug/L	MW-15R	03/27/2017	ND	0.7930	5.0000	**
Chromium	ug/L	MW-15R	11/13/2017	ND	0.9120	5.0000	**
Chromium	ug/L	MW-15R	06/06/2018	ND	4.3100	5.0000	**
Chromium	ug/L	MW-15R	11/27/2018	ND	0.8020	5.0000	**
Chromium	ug/L	MW-15R	03/18/2019	ND	5.0000		
Chromium	ug/L	MW-15R	12/02/2019	ND	5.0000		
Chromium	ug/L	MW-15R	03/30/2020	ND	5.0000		
Chromium	ug/L	MW-15R	11/17/2020	ND	5.0000		
Chromium	ug/L	MW-15R	05/06/2021	ND	5.0000		
Chromium	ug/L	MW-15R	10/07/2021	ND	1.1100	5.0000	**
Chromium	ug/L	MW-15R	04/06/2022	ND	5.0000		
Chromium	ug/L	MW-15R	08/23/2022	ND	5.0000		
Chromium	ug/L	MW-15R	03/08/2023	ND	5.0000		
Chromium	ug/L	MW-15R	09/13/2023	ND	5.0000		
Chromium	ug/L	MW-15R	05/29/2024	ND	5.0000		
Chromium	ug/L	MW-15R	10/15/2024	ND	8.0000	5.0000	**
Chromium	ug/L	MW-15R	04/16/2025		2.0000		
Cobalt	ug/L	MW-15R	03/11/2010	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	05/27/2010		1.7700		
Cobalt	ug/L	MW-15R	08/31/2010	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	11/04/2010	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	02/16/2011	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	10/27/2011	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	04/26/2012		2.0000		
Cobalt	ug/L	MW-15R	10/09/2012	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	02/20/2013	ND	1.3200	0.5000	**
Cobalt	ug/L	MW-15R	10/03/2013	ND	1.3200	0.5000	**
Cobalt	ug/L	MW-15R	04/22/2014	ND	2.4100	0.5000	**
Cobalt	ug/L	MW-15R	10/14/2014	ND	2.4100	0.5000	**
Cobalt	ug/L	MW-15R	05/12/2015	ND	0.2440	0.5000	**
Cobalt	ug/L	MW-15R	07/29/2015	ND	0.0700	0.5000	**
Cobalt	ug/L	MW-15R	02/15/2016	ND	0.1520	0.5000	**
Cobalt	ug/L	MW-15R	10/31/2016	ND	0.5000		
Cobalt	ug/L	MW-15R	03/27/2017	ND	0.5000		
Cobalt	ug/L	MW-15R	11/13/2017	ND	0.5000		
Cobalt	ug/L	MW-15R	06/06/2018	ND	1.0000	0.5000	**
Cobalt	ug/L	MW-15R	11/27/2018		1.0200		
Cobalt	ug/L	MW-15R	03/18/2019	ND	0.2140	0.5000	**
Cobalt	ug/L	MW-15R	12/02/2019	ND	0.5000		
Cobalt	ug/L	MW-15R	03/30/2020	ND	0.5000		
Cobalt	ug/L	MW-15R	11/17/2020	ND	0.5000		

* - 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	
Cobalt	ug/L	MW-15R	05/06/2021	ND	0.5000		
Cobalt	ug/L	MW-15R	10/07/2021	ND	0.5000		
Cobalt	ug/L	MW-15R	04/06/2022	ND	0.4640	0.5000	**
Cobalt	ug/L	MW-15R	08/23/2022	ND	0.5000		
Cobalt	ug/L	MW-15R	03/08/2023	ND	0.3080	0.5000	**
Cobalt	ug/L	MW-15R	09/13/2023	ND	0.5000		
Cobalt	ug/L	MW-15R	05/29/2024		2.7300		
Cobalt	ug/L	MW-15R	10/15/2024		4.2000		
Cobalt	ug/L	MW-15R	04/16/2025		7.9000		
Copper	ug/L	MW-15R	03/11/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	05/27/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	08/31/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	11/04/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	02/16/2011	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	10/27/2011	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	04/26/2012	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	10/09/2012	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	02/20/2013	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	10/03/2013	ND	6.5200	5.0000	**
Copper	ug/L	MW-15R	04/22/2014	ND	6.6800	5.0000	**
Copper	ug/L	MW-15R	10/14/2014	ND	11.8300	5.0000	**
Copper	ug/L	MW-15R	05/12/2015	ND	1.5300	5.0000	**
Copper	ug/L	MW-15R	07/29/2015	ND	1.0600	5.0000	**
Copper	ug/L	MW-15R	02/15/2016	ND	2.0000	5.0000	**
Copper	ug/L	MW-15R	10/31/2016	ND	5.0000		
Copper	ug/L	MW-15R	03/27/2017	ND	5.0000		
Copper	ug/L	MW-15R	11/13/2017	ND	5.0000		
Copper	ug/L	MW-15R	06/06/2018	ND	0.8860	5.0000	**
Copper	ug/L	MW-15R	11/27/2018	ND	5.0000		
Copper	ug/L	MW-15R	03/18/2019	ND	5.0000		
Copper	ug/L	MW-15R	12/02/2019	ND	5.0000		
Copper	ug/L	MW-15R	03/30/2020	ND	5.0000		
Copper	ug/L	MW-15R	11/17/2020	ND	5.0000		
Copper	ug/L	MW-15R	05/06/2021	ND	5.0000		
Copper	ug/L	MW-15R	10/07/2021	ND	5.0000		
Copper	ug/L	MW-15R	04/06/2022	ND	5.0000		
Copper	ug/L	MW-15R	08/23/2022	ND	5.0000		
Copper	ug/L	MW-15R	03/08/2023	ND	5.0000		
Copper	ug/L	MW-15R	09/13/2023	ND	5.0000		
Copper	ug/L	MW-15R	05/29/2024	ND	5.0000		
Copper	ug/L	MW-15R	10/15/2024	ND	4.0000	5.0000	**
Copper	ug/L	MW-15R	04/16/2025	ND	5.0000		
Lead	ug/L	MW-15R	03/11/2010	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	05/27/2010	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	08/31/2010	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	11/04/2010	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	02/16/2011	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	10/27/2011	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	04/26/2012	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	10/09/2012	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	02/20/2013	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	10/03/2013	ND	1.8300	0.5000	**
Lead	ug/L	MW-15R	04/22/2014	ND	2.4200	0.5000	**
Lead	ug/L	MW-15R	10/14/2014	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	05/12/2015	ND	0.2640	0.5000	**
Lead	ug/L	MW-15R	07/29/2015	ND	0.5000		
Lead	ug/L	MW-15R	02/15/2016	ND	0.5000		
Lead	ug/L	MW-15R	10/31/2016	ND	0.5000		
Lead	ug/L	MW-15R	03/27/2017	ND	0.5000		
Lead	ug/L	MW-15R	11/13/2017	ND	0.5180		
Lead	ug/L	MW-15R	06/06/2018	ND	0.5000		
Lead	ug/L	MW-15R	11/27/2018	ND	0.5000		
Lead	ug/L	MW-15R	03/18/2019	ND	0.5000		
Lead	ug/L	MW-15R	12/02/2019	ND	0.5000		
Lead	ug/L	MW-15R	03/30/2020	ND	0.5000		
Lead	ug/L	MW-15R	11/17/2020	ND	0.5000		
Lead	ug/L	MW-15R	05/06/2021	ND	0.5000		
Lead	ug/L	MW-15R	10/07/2021	ND	0.5000		
Lead	ug/L	MW-15R	04/06/2022	ND	0.5000		
Lead	ug/L	MW-15R	08/23/2022	ND	0.5000		
Lead	ug/L	MW-15R	03/08/2023	ND	0.5000		
Lead	ug/L	MW-15R	09/13/2023	ND	0.5000		
Lead	ug/L	MW-15R	05/29/2024	ND	0.5000		
Lead	ug/L	MW-15R	10/15/2024	ND	4.0000	0.5000	**

* - 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	ug/L	MW-15R	04/16/2025		1.0000		
Nickel	ug/L	MW-15R	03/11/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	05/27/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	08/31/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	11/04/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	02/16/2011	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	10/27/2011	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	04/26/2012	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	10/09/2012	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	02/20/2013	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	10/03/2013	ND	3.1100	5.0000	**
Nickel	ug/L	MW-15R	04/22/2014	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	10/14/2014	ND	11.8500	5.0000	**
Nickel	ug/L	MW-15R	05/12/2015	ND	2.3800	5.0000	**
Nickel	ug/L	MW-15R	07/29/2015	ND	0.6790	5.0000	**
Nickel	ug/L	MW-15R	02/15/2016	ND	5.0000		
Nickel	ug/L	MW-15R	10/31/2016	ND	5.0000		
Nickel	ug/L	MW-15R	03/27/2017	ND	5.0000		
Nickel	ug/L	MW-15R	11/13/2017	ND	5.0000		
Nickel	ug/L	MW-15R	06/06/2018	ND	1.0300	5.0000	**
Nickel	ug/L	MW-15R	11/27/2018	ND	5.0000		
Nickel	ug/L	MW-15R	03/18/2019	ND	5.0000		
Nickel	ug/L	MW-15R	12/02/2019	ND	5.0000		
Nickel	ug/L	MW-15R	03/30/2020	ND	5.0000		
Nickel	ug/L	MW-15R	11/17/2020	ND	5.0000		
Nickel	ug/L	MW-15R	05/06/2021	ND	5.0000		
Nickel	ug/L	MW-15R	10/07/2021	ND	5.0000		
Nickel	ug/L	MW-15R	04/06/2022	ND	5.0000		
Nickel	ug/L	MW-15R	08/23/2022	ND	5.0000		
Nickel	ug/L	MW-15R	03/08/2023	ND	2.3300	5.0000	**
Nickel	ug/L	MW-15R	09/13/2023	ND	5.0000		
Nickel	ug/L	MW-15R	05/29/2024	ND	2.4800	5.0000	**
Nickel	ug/L	MW-15R	10/15/2024		6.3000		
Nickel	ug/L	MW-15R	04/16/2025		6.5000		
Selenium	ug/L	MW-15R	03/11/2010	ND	5.0000		
Selenium	ug/L	MW-15R	05/27/2010	ND	5.0000		
Selenium	ug/L	MW-15R	08/31/2010	ND	5.0000		
Selenium	ug/L	MW-15R	11/04/2010	ND	5.0000		
Selenium	ug/L	MW-15R	02/16/2011	ND	5.0000		
Selenium	ug/L	MW-15R	10/27/2011	ND	5.0000		
Selenium	ug/L	MW-15R	04/26/2012	ND	5.0000		
Selenium	ug/L	MW-15R	10/09/2012	ND	5.0000		
Selenium	ug/L	MW-15R	02/20/2013	ND	5.0000		
Selenium	ug/L	MW-15R	10/03/2013	ND	2.4600	5.0000	**
Selenium	ug/L	MW-15R	04/22/2014	ND	5.0000		
Selenium	ug/L	MW-15R	10/14/2014	ND	5.0000		
Selenium	ug/L	MW-15R	05/12/2015	ND	5.0000		
Selenium	ug/L	MW-15R	07/29/2015	ND	5.0000		
Selenium	ug/L	MW-15R	02/15/2016	ND	5.0000		
Selenium	ug/L	MW-15R	10/31/2016	ND	1.2100	5.0000	**
Selenium	ug/L	MW-15R	03/27/2017	ND	1.1900	5.0000	**
Selenium	ug/L	MW-15R	11/13/2017	ND	1.1900	5.0000	**
Selenium	ug/L	MW-15R	06/06/2018	ND	1.5200	5.0000	**
Selenium	ug/L	MW-15R	11/27/2018	ND	1.5800	5.0000	**
Selenium	ug/L	MW-15R	03/18/2019	ND	5.0000		
Selenium	ug/L	MW-15R	12/02/2019	ND	5.0000		
Selenium	ug/L	MW-15R	03/30/2020	ND	1.2900	5.0000	**
Selenium	ug/L	MW-15R	11/17/2020	ND	5.0000		
Selenium	ug/L	MW-15R	05/06/2021	ND	2.0700	5.0000	**
Selenium	ug/L	MW-15R	10/07/2021	ND	1.3500	5.0000	**
Selenium	ug/L	MW-15R	04/06/2022	ND	1.0000	5.0000	**
Selenium	ug/L	MW-15R	08/23/2022	ND	1.1300	5.0000	**
Selenium	ug/L	MW-15R	03/08/2023	ND	1.5500	5.0000	**
Selenium	ug/L	MW-15R	09/13/2023	ND	5.0000		
Selenium	ug/L	MW-15R	05/29/2024	ND	5.0000		
Selenium	ug/L	MW-15R	10/15/2024	ND	4.0000	5.0000	**
Selenium	ug/L	MW-15R	04/16/2025	ND	2.0000	5.0000	**
Silver	ug/L	MW-15R	03/11/2010	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	05/27/2010	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	08/31/2010	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	11/04/2010	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	02/16/2011	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	10/27/2011	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	04/26/2012	ND	20.0000	1.0000	**

* - 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	ug/L	MW-15R	10/09/2012	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	02/20/2013	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	10/03/2013	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	04/22/2014	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	10/14/2014	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	05/12/2015	ND	1.0000		
Silver	ug/L	MW-15R	07/29/2015	ND	1.0000		
Silver	ug/L	MW-15R	02/15/2016	ND	1.0000		
Silver	ug/L	MW-15R	10/31/2016	ND	1.0000		
Silver	ug/L	MW-15R	03/27/2017	ND	1.0000		
Silver	ug/L	MW-15R	11/13/2017	ND	1.0000		
Silver	ug/L	MW-15R	06/06/2018	ND	0.5000	1.0000	**
Silver	ug/L	MW-15R	11/27/2018	ND	1.0000		
Silver	ug/L	MW-15R	03/18/2019	ND	1.0000		
Silver	ug/L	MW-15R	12/02/2019	ND	1.0000		
Silver	ug/L	MW-15R	03/30/2020	ND	1.0000		
Silver	ug/L	MW-15R	11/17/2020	ND	1.0000		
Silver	ug/L	MW-15R	05/06/2021	ND	1.0000		
Silver	ug/L	MW-15R	10/07/2021	ND	1.0000		
Silver	ug/L	MW-15R	04/06/2022	ND	1.0000		
Silver	ug/L	MW-15R	08/23/2022	ND	1.0000		
Silver	ug/L	MW-15R	03/08/2023	ND	1.0000		
Silver	ug/L	MW-15R	09/13/2023	ND	1.0000		
Silver	ug/L	MW-15R	05/29/2024	ND	1.0000		
Silver	ug/L	MW-15R	10/15/2024	ND	4.0000	1.0000	**
Silver	ug/L	MW-15R	04/16/2025	ND	5.0000	1.0000	**
Thallium	ug/L	MW-15R	03/11/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	05/27/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	08/31/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	11/04/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	02/16/2011	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	10/27/2011	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	04/26/2012	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	10/09/2012	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	02/20/2013	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	10/03/2013	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	04/22/2014	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	10/14/2014	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	05/12/2015	ND	1.0000		
Thallium	ug/L	MW-15R	07/29/2015	ND	1.0000		
Thallium	ug/L	MW-15R	02/15/2016	ND	1.0000		
Thallium	ug/L	MW-15R	10/31/2016	ND	1.0000		
Thallium	ug/L	MW-15R	03/27/2017	ND	1.0000		
Thallium	ug/L	MW-15R	11/13/2017	ND	1.0000		
Thallium	ug/L	MW-15R	06/06/2018	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	11/27/2018	ND	1.0000		
Thallium	ug/L	MW-15R	03/18/2019	ND	1.0000		
Thallium	ug/L	MW-15R	12/02/2019	ND	1.0000		
Thallium	ug/L	MW-15R	03/30/2020	ND	1.0000		
Thallium	ug/L	MW-15R	11/17/2020	ND	1.0000		
Thallium	ug/L	MW-15R	05/06/2021	ND	1.0000		
Thallium	ug/L	MW-15R	10/07/2021	ND	1.0000		
Thallium	ug/L	MW-15R	04/06/2022	ND	1.0000		
Thallium	ug/L	MW-15R	08/23/2022	ND	1.0000		
Thallium	ug/L	MW-15R	03/08/2023	ND	1.0000		
Thallium	ug/L	MW-15R	09/13/2023	ND	1.0000		
Thallium	ug/L	MW-15R	05/29/2024	ND	1.0000		
Thallium	ug/L	MW-15R	10/15/2024	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	04/16/2025	ND	0.5000	1.0000	**
Vanadium	ug/L	MW-15R	03/11/2010	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	05/27/2010	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	08/31/2010	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	11/04/2010	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	02/16/2011	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	10/27/2011	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	04/26/2012	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	10/09/2012	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	02/20/2013	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	10/03/2013	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	04/22/2014	ND	2.9900	5.0000	**
Vanadium	ug/L	MW-15R	10/14/2014	ND	26.3450	5.0000	**
Vanadium	ug/L	MW-15R	05/12/2015	ND	5.0000		
Vanadium	ug/L	MW-15R	07/29/2015	ND	0.4570	5.0000	**
Vanadium	ug/L	MW-15R	02/15/2016	ND	5.0000		

* - 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	ug/L	MW-15R	10/31/2016	ND	0.3370	5.0000	**
Vanadium	ug/L	MW-15R	03/27/2017	ND	5.0000		
Vanadium	ug/L	MW-15R	11/13/2017	ND	5.0000		
Vanadium	ug/L	MW-15R	06/06/2018	ND	3.2300	5.0000	**
Vanadium	ug/L	MW-15R	11/27/2018	ND	0.5650	5.0000	**
Vanadium	ug/L	MW-15R	03/18/2019	ND	5.0000		
Vanadium	ug/L	MW-15R	12/02/2019	ND	5.0000		
Vanadium	ug/L	MW-15R	03/30/2020	ND	5.0000		
Vanadium	ug/L	MW-15R	11/17/2020	ND	5.0000		
Vanadium	ug/L	MW-15R	05/06/2021	ND	5.0000		
Vanadium	ug/L	MW-15R	10/07/2021	ND	5.0000		
Vanadium	ug/L	MW-15R	04/06/2022	ND	5.0000		
Vanadium	ug/L	MW-15R	08/23/2022	ND	5.0000		
Vanadium	ug/L	MW-15R	03/08/2023	ND	5.0000		
Vanadium	ug/L	MW-15R	09/13/2023	ND	5.0000		
Vanadium	ug/L	MW-15R	05/29/2024	ND	5.0000		
Vanadium	ug/L	MW-15R	10/15/2024	ND	20.0000	5.0000	**
Vanadium	ug/L	MW-15R	04/16/2025		5.2000		
Zinc	ug/L	MW-15R	03/11/2010		57.7000		
Zinc	ug/L	MW-15R	05/27/2010	ND	20.0000		
Zinc	ug/L	MW-15R	08/31/2010		48.9000		
Zinc	ug/L	MW-15R	11/04/2010		22.6000		
Zinc	ug/L	MW-15R	02/16/2011	ND	20.0000		
Zinc	ug/L	MW-15R	10/27/2011		39.4000		
Zinc	ug/L	MW-15R	04/26/2012		23.8000		
Zinc	ug/L	MW-15R	10/09/2012		145.0000		
Zinc	ug/L	MW-15R	02/20/2013		51.1000		
Zinc	ug/L	MW-15R	10/03/2013		185.0000		
Zinc	ug/L	MW-15R	04/22/2014	ND	20.0000		
Zinc	ug/L	MW-15R	10/14/2014	ND	20.0000		
Zinc	ug/L	MW-15R	05/12/2015	ND	7.9300	20.0000	**
Zinc	ug/L	MW-15R	07/29/2015	ND	10.0000	20.0000	**
Zinc	ug/L	MW-15R	02/15/2016	ND	10.0000	20.0000	**
Zinc	ug/L	MW-15R	10/31/2016	ND	10.0000	20.0000	**
Zinc	ug/L	MW-15R	03/27/2017	ND	20.0000		
Zinc	ug/L	MW-15R	11/13/2017	ND	20.0000		
Zinc	ug/L	MW-15R	06/06/2018	ND	10.8000	20.0000	**
Zinc	ug/L	MW-15R	11/27/2018	ND	20.0000		
Zinc	ug/L	MW-15R	03/18/2019	ND	20.0000		
Zinc	ug/L	MW-15R	12/02/2019	ND	20.0000		
Zinc	ug/L	MW-15R	03/30/2020	ND	20.0000		
Zinc	ug/L	MW-15R	11/17/2020	ND	20.0000		
Zinc	ug/L	MW-15R	05/06/2021	ND	20.0000		
Zinc	ug/L	MW-15R	10/07/2021	ND	20.0000		
Zinc	ug/L	MW-15R	04/06/2022	ND	20.0000		
Zinc	ug/L	MW-15R	08/23/2022	ND	20.0000		
Zinc	ug/L	MW-15R	03/08/2023	ND	20.0000		
Zinc	ug/L	MW-15R	09/13/2023	ND	20.0000		
Zinc	ug/L	MW-15R	05/29/2024	ND	20.0000		
Zinc	ug/L	MW-15R	10/15/2024	ND	20.0000		
Zinc	ug/L	MW-15R	04/16/2025		12.8000		

* - 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	ug/L	MW-19	04/16/2025	ND	1.0000		2.0000
Arsenic	ug/L	MW-19	04/16/2025	ND	2.0000		19.7000
Barium	ug/L	MW-19	04/16/2025		1240.0000	***	683.1743
Beryllium	ug/L	MW-19	04/16/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-19	04/16/2025		0.3000		1.2500
Chromium	ug/L	MW-19	04/16/2025		2.2000		5.0000
Cobalt	ug/L	MW-19	04/16/2025		22.6000	***	7.9000
Copper	ug/L	MW-19	04/16/2025	ND	5.0000		5.0000
Lead	ug/L	MW-19	04/16/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-19	04/16/2025		52.9000	***	6.5000
Selenium	ug/L	MW-19	04/16/2025	ND	2.0000		5.0000
Silver	ug/L	MW-19	04/16/2025	ND	5.0000		1.0000
Thallium	ug/L	MW-19	04/16/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-19	04/16/2025	ND	2.0000		5.2000
Zinc	ug/L	MW-19	04/16/2025		5.8000		185.0000
Antimony	ug/L	MW-20	04/16/2025	ND	1.0000		2.0000
Arsenic	ug/L	MW-20	04/16/2025		71.2000	***	19.7000
Barium	ug/L	MW-20	04/16/2025		1780.0000	***	683.1743
Beryllium	ug/L	MW-20	04/16/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-20	04/16/2025	ND	0.2000		1.2500
Chromium	ug/L	MW-20	04/16/2025		1.5000		5.0000
Cobalt	ug/L	MW-20	04/16/2025		3.6000	**	7.9000
Copper	ug/L	MW-20	04/16/2025	ND	5.0000		5.0000
Lead	ug/L	MW-20	04/16/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-20	04/16/2025		9.5000	***	6.5000
Selenium	ug/L	MW-20	04/16/2025	ND	2.0000		5.0000
Silver	ug/L	MW-20	04/16/2025	ND	5.0000		1.0000
Thallium	ug/L	MW-20	04/16/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-20	04/16/2025		2.2000		5.2000
Zinc	ug/L	MW-20	04/16/2025	ND	5.0000		185.0000
Antimony	ug/L	MW-21	04/16/2025	ND	1.0000		2.0000
Arsenic	ug/L	MW-21	04/16/2025	ND	2.0000		19.7000
Barium	ug/L	MW-21	04/16/2025		1050.0000	***	683.1743
Beryllium	ug/L	MW-21	04/16/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-21	04/16/2025	ND	0.2000		1.2500
Chromium	ug/L	MW-21	04/16/2025		1.4000		5.0000
Cobalt	ug/L	MW-21	04/16/2025		19.0000	***	7.9000
Copper	ug/L	MW-21	04/16/2025	ND	5.0000	**	5.0000
Lead	ug/L	MW-21	04/16/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-21	04/16/2025		18.0000	***	6.5000
Selenium	ug/L	MW-21	04/16/2025	ND	2.0000		5.0000
Silver	ug/L	MW-21	04/16/2025	ND	5.0000		1.0000
Thallium	ug/L	MW-21	04/16/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-21	04/16/2025	ND	2.0000		5.2000
Zinc	ug/L	MW-21	04/16/2025	ND	5.0000		185.0000
Antimony	ug/L	MW-24	04/16/2025	ND	1.0000		2.0000
Arsenic	ug/L	MW-24	04/16/2025		4.2000		19.7000
Barium	ug/L	MW-24	04/16/2025		779.0000	***	683.1743
Beryllium	ug/L	MW-24	04/16/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-24	04/16/2025		1.0000		1.2500
Chromium	ug/L	MW-24	04/16/2025		1.1000		5.0000
Cobalt	ug/L	MW-24	04/16/2025		2.9000		7.9000
Copper	ug/L	MW-24	04/16/2025	ND	5.0000		5.0000
Lead	ug/L	MW-24	04/16/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-24	04/16/2025		31.3000	***	6.5000
Selenium	ug/L	MW-24	04/16/2025	ND	2.0000		5.0000
Silver	ug/L	MW-24	04/16/2025	ND	5.0000		1.0000
Thallium	ug/L	MW-24	04/16/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-24	04/16/2025	ND	2.0000		5.2000
Zinc	ug/L	MW-24	04/16/2025	ND	5.0000		185.0000
Antimony	ug/L	MW-37R	04/16/2025	ND	1.0000		2.0000
Arsenic	ug/L	MW-37R	04/16/2025	ND	2.0000		19.7000
Barium	ug/L	MW-37R	04/16/2025		687.0000	***	683.1743
Beryllium	ug/L	MW-37R	04/16/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-37R	04/16/2025	ND	0.2000		1.2500
Chromium	ug/L	MW-37R	04/16/2025		1.8000		5.0000
Cobalt	ug/L	MW-37R	04/16/2025	ND	0.5000		7.9000
Copper	ug/L	MW-37R	04/16/2025	ND	5.0000		5.0000
Lead	ug/L	MW-37R	04/16/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-37R	04/16/2025	ND	5.0000		6.5000
Selenium	ug/L	MW-37R	04/16/2025		50.3000	***	5.0000
Silver	ug/L	MW-37R	04/16/2025	ND	5.0000		1.0000

* - 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	ug/L	MW-37R	04/16/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-37R	04/16/2025	ND	2.0000		5.2000
Zinc	ug/L	MW-37R	04/16/2025	ND	5.0000		185.0000
Antimony	ug/L	MW-38R	04/16/2025	ND	1.0000		2.0000
Arsenic	ug/L	MW-38R	04/16/2025	ND	2.0000		19.7000
Barium	ug/L	MW-38R	04/16/2025		215.0000		683.1743
Beryllium	ug/L	MW-38R	04/16/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-38R	04/16/2025		0.2000	**	1.2500
Chromium	ug/L	MW-38R	04/16/2025		3.2000	**	5.0000
Cobalt	ug/L	MW-38R	04/16/2025		0.5000	**	7.9000
Copper	ug/L	MW-38R	04/16/2025	ND	5.0000	**	5.0000
Lead	ug/L	MW-38R	04/16/2025	ND	1.0000	**	1.0000
Nickel	ug/L	MW-38R	04/16/2025	ND	5.0000	**	6.5000
Selenium	ug/L	MW-38R	04/16/2025		3.2000	**	5.0000
Silver	ug/L	MW-38R	04/16/2025	ND	5.0000		1.0000
Thallium	ug/L	MW-38R	04/16/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-38R	04/16/2025	ND	2.0000	**	5.2000
Zinc	ug/L	MW-38R	04/16/2025	ND	5.0000		185.0000
Antimony	ug/L	MW-39	04/16/2025	ND	1.0000		2.0000
Arsenic	ug/L	MW-39	04/16/2025	ND	2.0000		19.7000
Barium	ug/L	MW-39	04/16/2025		95.8000		683.1743
Beryllium	ug/L	MW-39	04/16/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-39	04/16/2025	ND	0.2000		1.2500
Chromium	ug/L	MW-39	04/16/2025		1.8000		5.0000
Cobalt	ug/L	MW-39	04/16/2025	ND	0.5000		7.9000
Copper	ug/L	MW-39	04/16/2025	ND	5.0000		5.0000
Lead	ug/L	MW-39	04/16/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-39	04/16/2025	ND	5.0000		6.5000
Selenium	ug/L	MW-39	04/16/2025		71.5000	***	5.0000
Silver	ug/L	MW-39	04/16/2025	ND	5.0000		1.0000
Thallium	ug/L	MW-39	04/16/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-39	04/16/2025	ND	2.0000		5.2000
Zinc	ug/L	MW-39	04/16/2025	ND	5.0000		185.0000
Antimony	ug/L	MW-43	04/16/2025	ND	1.0000		2.0000
Arsenic	ug/L	MW-43	04/16/2025		6.8000		19.7000
Barium	ug/L	MW-43	04/16/2025		392.0000		683.1743
Beryllium	ug/L	MW-43	04/16/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-43	04/16/2025	ND	0.2000		1.2500
Chromium	ug/L	MW-43	04/16/2025		2.9000		5.0000
Cobalt	ug/L	MW-43	04/16/2025		2.5000		7.9000
Copper	ug/L	MW-43	04/16/2025	ND	5.0000		5.0000
Lead	ug/L	MW-43	04/16/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-43	04/16/2025		6.4000		6.5000
Selenium	ug/L	MW-43	04/16/2025	ND	2.0000		5.0000
Silver	ug/L	MW-43	04/16/2025	ND	5.0000		1.0000
Thallium	ug/L	MW-43	04/16/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-43	04/16/2025		2.6000		5.2000
Zinc	ug/L	MW-43	04/16/2025	ND	5.0000		185.0000

* - 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	0	33	0.000	1	192	0.005
Arsenic	6	33	0.182	78	214	0.364
Barium	33	33	1.000	208	208	1.000
Beryllium	0	31	0.000	5	192	0.026
Cadmium	10	33	0.303	87	194	0.448
Chromium	1	33	0.030	16	192	0.083
Cobalt	6	33	0.182	131	205	0.639
Copper	0	33	0.000	17	192	0.089
Lead	2	33	0.061	47	193	0.244
Nickel	2	33	0.061	116	204	0.569
Selenium	0	33	0.000	64	195	0.328
Silver	0	33	0.000	0	192	0.000
Thallium	0	33	0.000	2	192	0.010
Vanadium	1	33	0.030	9	192	0.047
Zinc	9	33	0.273	50	192	0.260

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	0	33	0.000									nonpar
Arsenic	6	33	0.182	0.791	1.213					2.326	normal	nonpar
Barium	33	33	1.000	3.675	1.335					2.326	lognor	lognor
Beryllium	0	31	0.000									nonpar
Cadmium	10	33	0.303	0.583	0.697					2.326	normal	nonpar
Chromium	1	33	0.030									nonpar
Cobalt	6	33	0.182	1.056	1.792					2.326	normal	nonpar
Copper	0	33	0.000									nonpar
Lead	2	33	0.061									nonpar
Nickel	2	33	0.061									nonpar
Selenium	0	33	0.000									nonpar
Silver	0	33	0.000									nonpar
Thallium	0	33	0.000									nonpar
Vanadium	1	33	0.030									nonpar
Zinc	9	33	0.273	2.098	0.514					2.326	normal	nonpar

* - Distribution override for that constituent.

Fit to distribution is confirmed if $G \leq$ 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	ug/L	0	33					2.0000	nonpar	***	0.99
Arsenic	ug/L	6	33					19.7000	nonpar		0.99
Barium	ug/L	33	33	5.2075	0.5308	0.0100	2.4853	683.1743	lognor		
Beryllium	ug/L	0	31					1.0000	nonpar	***	0.99
Cadmium	ug/L	10	33					1.2500	nonpar		0.99
Chromium	ug/L	1	33					5.0000	nonpar	***	0.99
Cobalt	ug/L	6	33					7.9000	nonpar		0.99
Copper	ug/L	0	33					5.0000	nonpar	***	0.99
Lead	ug/L	2	33					1.0000	nonpar		0.99
Nickel	ug/L	2	33					6.5000	nonpar		0.99
Selenium	ug/L	0	33					5.0000	nonpar	***	0.99
Silver	ug/L	0	33					1.0000	nonpar	***	0.99
Thallium	ug/L	0	33					1.0000	nonpar	***	0.99
Vanadium	ug/L	1	33					5.2000	nonpar		0.99
Zinc	ug/L	9	33					185.0000	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
Beryllium	ug/L	MW-15R	04/26/2012	4.0000	< 4.0000	03/11/2010-04/16/2025	33	0.4448
Beryllium	ug/L	MW-15R	10/15/2024	4.0000	< 4.0000	03/11/2010-04/16/2025	33	0.4448

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
Barium	ug/L	MW-19	02/11/2008		675.0000	683.1743
Barium	ug/L	MW-19	04/30/2008		791.0000 *	683.1743
Barium	ug/L	MW-19	07/09/2008		600.0000	683.1743
Barium	ug/L	MW-19	09/11/2008		309.0000	683.1743
Barium	ug/L	MW-19	12/10/2008		599.0000	683.1743
Barium	ug/L	MW-19	03/03/2009		670.0000	683.1743
Barium	ug/L	MW-19	08/21/2009		546.0000	683.1743
Barium	ug/L	MW-19	03/11/2010		567.0000	683.1743
Barium	ug/L	MW-19	08/31/2010		490.0000	683.1743
Barium	ug/L	MW-19	02/16/2011		607.0000	683.1743
Barium	ug/L	MW-19	07/07/2011		4440.0000 *	683.1743
Barium	ug/L	MW-19	10/27/2011		639.0000	683.1743
Barium	ug/L	MW-19	04/26/2012		918.0000 *	683.1743
Barium	ug/L	MW-19	10/09/2012		990.0000 *	683.1743
Barium	ug/L	MW-19	02/20/2013		1110.0000 *	683.1743
Barium	ug/L	MW-19	05/15/2013		1020.0000 *	683.1743
Barium	ug/L	MW-19	10/03/2013		1010.0000 *	683.1743
Barium	ug/L	MW-19	04/22/2014		1170.0000 *	683.1743
Barium	ug/L	MW-19	10/14/2014		1010.0000 *	683.1743
Barium	ug/L	MW-19	05/12/2015		978.0000 *	683.1743
Barium	ug/L	MW-19	07/29/2015		860.0000 *	683.1743
Barium	ug/L	MW-19	02/15/2016		838.0000 *	683.1743
Barium	ug/L	MW-19	10/31/2016		792.0000 *	683.1743
Barium	ug/L	MW-19	03/27/2017		875.0000 *	683.1743
Barium	ug/L	MW-19	11/13/2017		978.0000 *	683.1743
Barium	ug/L	MW-19	06/06/2018		1120.0000 *	683.1743
Barium	ug/L	MW-19	11/26/2018		1040.0000 *	683.1743
Barium	ug/L	MW-19	03/18/2019		1160.0000 *	683.1743
Barium	ug/L	MW-19	12/02/2019		1030.0000 *	683.1743
Barium	ug/L	MW-19	03/30/2020		1040.0000 *	683.1743
Barium	ug/L	MW-19	11/17/2020		1150.0000 *	683.1743
Barium	ug/L	MW-19	05/06/2021		1150.0000 *	683.1743
Barium	ug/L	MW-19	10/07/2021		1140.0000 *	683.1743
Barium	ug/L	MW-19	04/06/2022		1300.0000 *	683.1743
Barium	ug/L	MW-19	08/23/2022		1110.0000 *	683.1743
Barium	ug/L	MW-19	03/08/2023		1270.0000 *	683.1743
Barium	ug/L	MW-19	09/13/2023		1240.0000 *	683.1743
Barium	ug/L	MW-19	05/29/2024		1070.0000 *	683.1743
Barium	ug/L	MW-19	10/15/2024		966.0000 *	683.1743
Barium	ug/L	MW-19	04/16/2025		1240.0000 *	683.1743
Cobalt	ug/L	MW-19	02/11/2008	ND	20.0000	7.9000
Cobalt	ug/L	MW-19	04/30/2008	ND	1.4000	7.9000
Cobalt	ug/L	MW-19	07/09/2008	ND	20.0000	7.9000
Cobalt	ug/L	MW-19	09/11/2008	ND	20.0000	7.9000
Cobalt	ug/L	MW-19	12/10/2008	ND	20.0000	7.9000
Cobalt	ug/L	MW-19	03/03/2009	ND	20.0000	7.9000
Cobalt	ug/L	MW-19	08/21/2009	ND	20.0000	7.9000
Cobalt	ug/L	MW-19	03/11/2010		2.5200	7.9000
Cobalt	ug/L	MW-19	08/31/2010	ND	1.5500	7.9000
Cobalt	ug/L	MW-19	02/16/2011		2.1400	7.9000
Cobalt	ug/L	MW-19	07/07/2011		27.1000 *	7.9000
Cobalt	ug/L	MW-19	10/27/2011		3.6700	7.9000
Cobalt	ug/L	MW-19	04/26/2012		23.5000 *	7.9000
Cobalt	ug/L	MW-19	10/09/2012		11.6000 *	7.9000
Cobalt	ug/L	MW-19	02/20/2013		22.5000 *	7.9000
Cobalt	ug/L	MW-19	10/03/2013		20.3000 *	7.9000
Cobalt	ug/L	MW-19	04/22/2014		18.4000 *	7.9000
Cobalt	ug/L	MW-19	10/14/2014		19.3000 *	7.9000
Cobalt	ug/L	MW-19	05/12/2015		12.7000 *	7.9000
Cobalt	ug/L	MW-19	07/29/2015		10.2000 *	7.9000
Cobalt	ug/L	MW-19	02/15/2016		9.8100 *	7.9000
Cobalt	ug/L	MW-19	10/31/2016		7.0800	7.9000
Cobalt	ug/L	MW-19	03/27/2017		6.3100	7.9000
Cobalt	ug/L	MW-19	11/13/2017		11.4000 *	7.9000
Cobalt	ug/L	MW-19	06/06/2018		15.8000 *	7.9000
Cobalt	ug/L	MW-19	11/26/2018		16.9000 *	7.9000
Cobalt	ug/L	MW-19	03/18/2019		13.3000 *	7.9000
Cobalt	ug/L	MW-19	12/02/2019		15.5000 *	7.9000
Cobalt	ug/L	MW-19	03/30/2020		14.2000 *	7.9000
Cobalt	ug/L	MW-19	11/17/2020		20.6000 *	7.9000
Cobalt	ug/L	MW-19	05/06/2021		20.1000 *	7.9000

* - 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
Cobalt	ug/L	MW-19	10/07/2021		22.6000	*	7.9000
Cobalt	ug/L	MW-19	04/06/2022		25.6000	*	7.9000
Cobalt	ug/L	MW-19	08/23/2022		21.3000	*	7.9000
Cobalt	ug/L	MW-19	03/08/2023		23.5500	*	7.9000
Cobalt	ug/L	MW-19	09/13/2023		23.8000	*	7.9000
Cobalt	ug/L	MW-19	05/29/2024		23.4000	*	7.9000
Cobalt	ug/L	MW-19	10/15/2024		19.5000	*	7.9000
Cobalt	ug/L	MW-19	04/16/2025		22.6000	*	7.9000
Nickel	ug/L	MW-19	02/11/2008	ND	50.0000		6.5000
Nickel	ug/L	MW-19	04/30/2008	ND	4.6000		6.5000
Nickel	ug/L	MW-19	07/09/2008	ND	50.0000		6.5000
Nickel	ug/L	MW-19	09/11/2008	ND	50.0000		6.5000
Nickel	ug/L	MW-19	12/10/2008	ND	50.0000		6.5000
Nickel	ug/L	MW-19	03/03/2009	ND	50.0000		6.5000
Nickel	ug/L	MW-19	08/21/2009	ND	50.0000		6.5000
Nickel	ug/L	MW-19	03/11/2010	ND	50.0000		6.5000
Nickel	ug/L	MW-19	08/31/2010	ND	50.0000		6.5000
Nickel	ug/L	MW-19	02/16/2011	ND	50.0000		6.5000
Nickel	ug/L	MW-19	07/07/2011		127.0000	*	6.5000
Nickel	ug/L	MW-19	10/27/2011	ND	50.0000		6.5000
Nickel	ug/L	MW-19	04/26/2012		59.3000	*	6.5000
Nickel	ug/L	MW-19	10/09/2012		51.4000	*	6.5000
Nickel	ug/L	MW-19	02/20/2013	ND	50.0000		6.5000
Nickel	ug/L	MW-19	05/15/2013	ND	50.0000		6.5000
Nickel	ug/L	MW-19	10/03/2013		59.0000	*	6.5000
Nickel	ug/L	MW-19	04/22/2014		75.6000	*	6.5000
Nickel	ug/L	MW-19	10/14/2014		79.7000	*	6.5000
Nickel	ug/L	MW-19	05/12/2015		60.3000	*	6.5000
Nickel	ug/L	MW-19	07/29/2015		58.5000	*	6.5000
Nickel	ug/L	MW-19	02/15/2016		53.1000	*	6.5000
Nickel	ug/L	MW-19	10/31/2016		43.4000	*	6.5000
Nickel	ug/L	MW-19	03/27/2017		49.9000	*	6.5000
Nickel	ug/L	MW-19	11/13/2017		45.4000	*	6.5000
Nickel	ug/L	MW-19	06/06/2018		60.5000	*	6.5000
Nickel	ug/L	MW-19	11/26/2018		62.7000	*	6.5000
Nickel	ug/L	MW-19	03/18/2019		64.5000	*	6.5000
Nickel	ug/L	MW-19	12/02/2019		59.6000	*	6.5000
Nickel	ug/L	MW-19	03/30/2020		58.1000	*	6.5000
Nickel	ug/L	MW-19	11/17/2020		60.4000	*	6.5000
Nickel	ug/L	MW-19	05/06/2021		49.5000	*	6.5000
Nickel	ug/L	MW-19	10/07/2021		56.4000	*	6.5000
Nickel	ug/L	MW-19	04/06/2022		64.3000	*	6.5000
Nickel	ug/L	MW-19	08/23/2022		63.8000	*	6.5000
Nickel	ug/L	MW-19	03/08/2023		61.6500	*	6.5000
Nickel	ug/L	MW-19	09/13/2023		43.1000	*	6.5000
Nickel	ug/L	MW-19	05/29/2024		59.6000	*	6.5000
Nickel	ug/L	MW-19	10/15/2024		55.7000	*	6.5000
Nickel	ug/L	MW-19	04/16/2025		52.9000	*	6.5000
Arsenic	ug/L	MW-20	09/11/2008		6.6000		19.7000
Arsenic	ug/L	MW-20	12/10/2008		66.3000	*	19.7000
Arsenic	ug/L	MW-20	03/03/2009		80.4000	*	19.7000
Arsenic	ug/L	MW-20	08/21/2009		108.0000	*	19.7000
Arsenic	ug/L	MW-20	10/21/2009		95.0000	*	19.7000
Arsenic	ug/L	MW-20	03/11/2010		83.5000	*	19.7000
Arsenic	ug/L	MW-20	08/31/2010		20.0000	*	19.7000
Arsenic	ug/L	MW-20	02/16/2011		136.0000	*	19.7000
Arsenic	ug/L	MW-20	10/27/2011		92.6000	*	19.7000
Arsenic	ug/L	MW-20	04/26/2012		85.3000	*	19.7000
Arsenic	ug/L	MW-20	10/09/2012		49.1000	*	19.7000
Arsenic	ug/L	MW-20	02/20/2013		90.4000	*	19.7000
Arsenic	ug/L	MW-20	10/03/2013		153.0000	*	19.7000
Arsenic	ug/L	MW-20	04/22/2014		111.0000	*	19.7000
Arsenic	ug/L	MW-20	10/14/2014		140.0000	*	19.7000
Arsenic	ug/L	MW-20	05/12/2015		97.3000	*	19.7000
Arsenic	ug/L	MW-20	07/29/2015		77.4000	*	19.7000
Arsenic	ug/L	MW-20	02/15/2016		62.8000	*	19.7000
Arsenic	ug/L	MW-20	10/31/2016		102.0000	*	19.7000
Arsenic	ug/L	MW-20	03/27/2017		61.0000	*	19.7000
Arsenic	ug/L	MW-20	11/13/2017		81.1000	*	19.7000
Arsenic	ug/L	MW-20	06/06/2018		66.4500	*	19.7000
Arsenic	ug/L	MW-20	11/27/2018		59.2000	*	19.7000

* - 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
Arsenic	ug/L	MW-20	03/18/2019	ND	43.3000	*	19.7000
Arsenic	ug/L	MW-20	12/02/2019		76.3000	*	19.7000
Arsenic	ug/L	MW-20	03/30/2020		56.4000	*	19.7000
Arsenic	ug/L	MW-20	11/17/2020		63.7000	*	19.7000
Arsenic	ug/L	MW-20	05/06/2021		53.0000	*	19.7000
Arsenic	ug/L	MW-20	10/07/2021		75.8500	*	19.7000
Arsenic	ug/L	MW-20	04/06/2022		83.3000	*	19.7000
Arsenic	ug/L	MW-20	08/23/2022		7.7800	*	19.7000
Arsenic	ug/L	MW-20	03/08/2023		81.3000	*	19.7000
Arsenic	ug/L	MW-20	09/13/2023		80.0000	*	19.7000
Arsenic	ug/L	MW-20	05/29/2024		112.5000	*	19.7000
Arsenic	ug/L	MW-20	10/15/2024		77.5000	*	19.7000
Arsenic	ug/L	MW-20	04/16/2025		71.2000	*	19.7000
Barium	ug/L	MW-20	09/11/2008	ND	646.0000	*	683.1743
Barium	ug/L	MW-20	12/10/2008		3940.0000	*	683.1743
Barium	ug/L	MW-20	03/03/2009		4460.0000	*	683.1743
Barium	ug/L	MW-20	08/21/2009		4150.0000	*	683.1743
Barium	ug/L	MW-20	10/21/2009		4270.0000	*	683.1743
Barium	ug/L	MW-20	03/11/2010		3760.0000	*	683.1743
Barium	ug/L	MW-20	08/31/2010		3880.0000	*	683.1743
Barium	ug/L	MW-20	02/16/2011		4350.0000	*	683.1743
Barium	ug/L	MW-20	10/27/2011		4770.0000	*	683.1743
Barium	ug/L	MW-20	04/26/2012		4920.0000	*	683.1743
Barium	ug/L	MW-20	10/09/2012		4320.0000	*	683.1743
Barium	ug/L	MW-20	02/20/2013		5540.0000	*	683.1743
Barium	ug/L	MW-20	10/03/2013		2730.0000	*	683.1743
Barium	ug/L	MW-20	04/22/2014		2950.0000	*	683.1743
Barium	ug/L	MW-20	10/14/2014		2400.0000	*	683.1743
Barium	ug/L	MW-20	05/12/2015		2430.0000	*	683.1743
Barium	ug/L	MW-20	07/29/2015		2290.0000	*	683.1743
Barium	ug/L	MW-20	02/15/2016		2660.0000	*	683.1743
Barium	ug/L	MW-20	10/31/2016		4200.0000	*	683.1743
Barium	ug/L	MW-20	03/27/2017		2190.0000	*	683.1743
Barium	ug/L	MW-20	11/13/2017		3290.0000	*	683.1743
Barium	ug/L	MW-20	06/06/2018		2400.0000	*	683.1743
Barium	ug/L	MW-20	11/27/2018		1930.0000	*	683.1743
Barium	ug/L	MW-20	03/18/2019		2740.0000	*	683.1743
Barium	ug/L	MW-20	12/02/2019		2960.0000	*	683.1743
Barium	ug/L	MW-20	03/30/2020		1850.0000	*	683.1743
Barium	ug/L	MW-20	11/17/2020		3320.0000	*	683.1743
Barium	ug/L	MW-20	05/06/2021		2090.0000	*	683.1743
Barium	ug/L	MW-20	10/07/2021		2285.0000	*	683.1743
Barium	ug/L	MW-20	04/06/2022		2120.0000	*	683.1743
Barium	ug/L	MW-20	08/23/2022		2470.0000	*	683.1743
Barium	ug/L	MW-20	03/08/2023		3800.0000	*	683.1743
Barium	ug/L	MW-20	09/13/2023		3320.0000	*	683.1743
Barium	ug/L	MW-20	05/29/2024		1640.0000	*	683.1743
Barium	ug/L	MW-20	10/15/2024		2430.0000	*	683.1743
Barium	ug/L	MW-20	04/16/2025		1780.0000	*	683.1743
Cobalt	ug/L	MW-20	09/11/2008	ND	20.0000	*	7.9000
Cobalt	ug/L	MW-20	12/10/2008		23.3000	*	7.9000
Cobalt	ug/L	MW-20	03/03/2009		37.5000	*	7.9000
Cobalt	ug/L	MW-20	08/21/2009		30.6000	*	7.9000
Cobalt	ug/L	MW-20	10/21/2009		25.5000	*	7.9000
Cobalt	ug/L	MW-20	03/11/2010		20.6000	*	7.9000
Cobalt	ug/L	MW-20	08/31/2010		22.0000	*	7.9000
Cobalt	ug/L	MW-20	02/16/2011		25.7000	*	7.9000
Cobalt	ug/L	MW-20	10/27/2011		28.9000	*	7.9000
Cobalt	ug/L	MW-20	04/26/2012		29.2000	*	7.9000
Cobalt	ug/L	MW-20	10/09/2012		24.0000	*	7.9000
Cobalt	ug/L	MW-20	02/20/2013		38.1000	*	7.9000
Cobalt	ug/L	MW-20	10/03/2013		17.4000	*	7.9000
Cobalt	ug/L	MW-20	04/22/2014		13.0000	*	7.9000
Cobalt	ug/L	MW-20	10/14/2014		14.6000	*	7.9000
Cobalt	ug/L	MW-20	05/12/2015		12.7000	*	7.9000
Cobalt	ug/L	MW-20	07/29/2015		11.6000	*	7.9000
Cobalt	ug/L	MW-20	02/15/2016		9.8900	*	7.9000
Cobalt	ug/L	MW-20	10/31/2016		18.7000	*	7.9000
Cobalt	ug/L	MW-20	03/27/2017		12.3000	*	7.9000
Cobalt	ug/L	MW-20	11/13/2017		13.3000	*	7.9000
Cobalt	ug/L	MW-20	06/06/2018		11.8500	*	7.9000

* - 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
Cobalt	ug/L	MW-20	11/27/2018		7.9600	*	7.9000
Cobalt	ug/L	MW-20	03/18/2019		10.4000	*	7.9000
Cobalt	ug/L	MW-20	12/02/2019		12.4000	*	7.9000
Cobalt	ug/L	MW-20	03/30/2020		7.9600	*	7.9000
Cobalt	ug/L	MW-20	11/17/2020		13.0000	*	7.9000
Cobalt	ug/L	MW-20	05/06/2021		8.4400	*	7.9000
Cobalt	ug/L	MW-20	10/07/2021		9.3150	*	7.9000
Cobalt	ug/L	MW-20	04/06/2022		9.1600	*	7.9000
Cobalt	ug/L	MW-20	08/23/2022		8.8200	*	7.9000
Cobalt	ug/L	MW-20	03/08/2023		15.8000	*	7.9000
Cobalt	ug/L	MW-20	09/13/2023		13.1000	*	7.9000
Cobalt	ug/L	MW-20	05/29/2024		8.0400	*	7.9000
Cobalt	ug/L	MW-20	10/15/2024		9.9000	*	7.9000
Cobalt	ug/L	MW-20	04/16/2025		3.6000		7.9000
Nickel	ug/L	MW-20	09/11/2008	ND	50.0000		6.5000
Nickel	ug/L	MW-20	12/10/2008		112.0000	*	6.5000
Nickel	ug/L	MW-20	03/03/2009		140.0000	*	6.5000
Nickel	ug/L	MW-20	08/21/2009		63.2000	*	6.5000
Nickel	ug/L	MW-20	10/21/2009		127.0000	*	6.5000
Nickel	ug/L	MW-20	03/11/2010		98.1000	*	6.5000
Nickel	ug/L	MW-20	08/31/2010		111.0000	*	6.5000
Nickel	ug/L	MW-20	02/16/2011		128.0000	*	6.5000
Nickel	ug/L	MW-20	10/27/2011		137.0000	*	6.5000
Nickel	ug/L	MW-20	04/26/2012		147.0000	*	6.5000
Nickel	ug/L	MW-20	10/09/2012		111.0000	*	6.5000
Nickel	ug/L	MW-20	02/20/2013		158.0000	*	6.5000
Nickel	ug/L	MW-20	10/03/2013		76.8000	*	6.5000
Nickel	ug/L	MW-20	04/22/2014		54.1000	*	6.5000
Nickel	ug/L	MW-20	10/14/2014		60.4000	*	6.5000
Nickel	ug/L	MW-20	05/12/2015		20.1000	*	6.5000
Nickel	ug/L	MW-20	07/29/2015		28.8000	*	6.5000
Nickel	ug/L	MW-20	02/15/2016		45.6000	*	6.5000
Nickel	ug/L	MW-20	10/31/2016		83.8000	*	6.5000
Nickel	ug/L	MW-20	03/27/2017		30.9000	*	6.5000
Nickel	ug/L	MW-20	11/13/2017		56.1000	*	6.5000
Nickel	ug/L	MW-20	06/06/2018		34.6500	*	6.5000
Nickel	ug/L	MW-20	11/27/2018		16.2000	*	6.5000
Nickel	ug/L	MW-20	03/18/2019		46.0000	*	6.5000
Nickel	ug/L	MW-20	12/02/2019		58.2000	*	6.5000
Nickel	ug/L	MW-20	03/30/2020		12.0000	*	6.5000
Nickel	ug/L	MW-20	11/17/2020		71.6000	*	6.5000
Nickel	ug/L	MW-20	05/06/2021		20.5000	*	6.5000
Nickel	ug/L	MW-20	10/07/2021		42.1500	*	6.5000
Nickel	ug/L	MW-20	04/06/2022		31.2000	*	6.5000
Nickel	ug/L	MW-20	08/23/2022		65.0000	*	6.5000
Nickel	ug/L	MW-20	03/08/2023		78.7000	*	6.5000
Nickel	ug/L	MW-20	09/13/2023		48.7000	*	6.5000
Nickel	ug/L	MW-20	05/29/2024		14.4000	*	6.5000
Nickel	ug/L	MW-20	10/15/2024		50.8000	*	6.5000
Nickel	ug/L	MW-20	04/16/2025		9.5000	*	6.5000
Barium	ug/L	MW-21	12/23/2008		732.0000	*	683.1743
Barium	ug/L	MW-21	03/03/2009		782.0000	*	683.1743
Barium	ug/L	MW-21	08/21/2009		679.0000	*	683.1743
Barium	ug/L	MW-21	12/15/2009		630.0000	*	683.1743
Barium	ug/L	MW-21	03/11/2010		841.0000	*	683.1743
Barium	ug/L	MW-21	08/31/2010		801.0000	*	683.1743
Barium	ug/L	MW-21	02/16/2011		743.0000	*	683.1743
Barium	ug/L	MW-21	07/07/2011		699.0000	*	683.1743
Barium	ug/L	MW-21	10/27/2011		633.0000	*	683.1743
Barium	ug/L	MW-21	04/26/2012		1970.0000	*	683.1743
Barium	ug/L	MW-21	10/09/2012		945.0000	*	683.1743
Barium	ug/L	MW-21	02/20/2013		1080.0000	*	683.1743
Barium	ug/L	MW-21	10/03/2013		1390.0000	*	683.1743
Barium	ug/L	MW-21	04/22/2014		1110.0000	*	683.1743
Barium	ug/L	MW-21	05/12/2015		929.0000	*	683.1743
Barium	ug/L	MW-21	07/29/2015		978.0000	*	683.1743
Barium	ug/L	MW-21	02/15/2016		969.0000	*	683.1743
Barium	ug/L	MW-21	10/31/2016		1000.0000	*	683.1743
Barium	ug/L	MW-21	03/27/2017		969.0000	*	683.1743
Barium	ug/L	MW-21	11/13/2017		958.0000	*	683.1743
Barium	ug/L	MW-21	06/06/2018		957.0000	*	683.1743

* - 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	ug/L	MW-21	11/27/2018		421.0000	683.1743
Barium	ug/L	MW-21	03/18/2019		236.0000	683.1743
Barium	ug/L	MW-21	12/02/2019		969.0000 *	683.1743
Barium	ug/L	MW-21	03/30/2020		1180.0000 *	683.1743
Barium	ug/L	MW-21	11/17/2020		894.0000 *	683.1743
Barium	ug/L	MW-21	05/06/2021		909.0000 *	683.1743
Barium	ug/L	MW-21	10/07/2021		733.0000 *	683.1743
Barium	ug/L	MW-21	04/06/2022		1050.0000 *	683.1743
Barium	ug/L	MW-21	08/23/2022		1095.0000 *	683.1743
Barium	ug/L	MW-21	03/08/2023		1210.0000 *	683.1743
Barium	ug/L	MW-21	09/13/2023		1240.0000 *	683.1743
Barium	ug/L	MW-21	05/29/2024		1110.0000 *	683.1743
Barium	ug/L	MW-21	10/15/2024		1170.0000 *	683.1743
Barium	ug/L	MW-21	04/16/2025		1050.0000 *	683.1743
Cobalt	ug/L	MW-21	12/23/2008	ND	20.0000	7.9000
Cobalt	ug/L	MW-21	03/03/2009	ND	20.0000	7.9000
Cobalt	ug/L	MW-21	08/21/2009	ND	20.0000	7.9000
Cobalt	ug/L	MW-21	12/15/2009	ND	20.0000	7.9000
Cobalt	ug/L	MW-21	03/11/2010		4.9900	7.9000
Cobalt	ug/L	MW-21	08/31/2010		10.0000 *	7.9000
Cobalt	ug/L	MW-21	02/16/2011		3.4000	7.9000
Cobalt	ug/L	MW-21	07/07/2011		7.1000	7.9000
Cobalt	ug/L	MW-21	10/27/2011	ND	1.5500	7.9000
Cobalt	ug/L	MW-21	04/26/2012		224.0000 *	7.9000
Cobalt	ug/L	MW-21	10/09/2012		13.3000 *	7.9000
Cobalt	ug/L	MW-21	02/20/2013		12.1000 *	7.9000
Cobalt	ug/L	MW-21	10/03/2013		42.9000 *	7.9000
Cobalt	ug/L	MW-21	04/22/2014		16.0000 *	7.9000
Cobalt	ug/L	MW-21	05/12/2015		1.6200	7.9000
Cobalt	ug/L	MW-21	07/29/2015		2.4300	7.9000
Cobalt	ug/L	MW-21	02/15/2016	ND	0.0740	7.9000
Cobalt	ug/L	MW-21	10/31/2016		6.5400	7.9000
Cobalt	ug/L	MW-21	03/27/2017	ND	0.3560	7.9000
Cobalt	ug/L	MW-21	11/13/2017		3.5800	7.9000
Cobalt	ug/L	MW-21	06/06/2018		2.4800	7.9000
Cobalt	ug/L	MW-21	11/27/2018		1.3300	7.9000
Cobalt	ug/L	MW-21	03/18/2019		3.3900	7.9000
Cobalt	ug/L	MW-21	12/02/2019		3.3000	7.9000
Cobalt	ug/L	MW-21	03/30/2020		1.7000	7.9000
Cobalt	ug/L	MW-21	11/17/2020		1.8600	7.9000
Cobalt	ug/L	MW-21	05/06/2021		1.6400	7.9000
Cobalt	ug/L	MW-21	10/07/2021		2.6800	7.9000
Cobalt	ug/L	MW-21	04/06/2022		4.6200	7.9000
Cobalt	ug/L	MW-21	08/23/2022		3.9400	7.9000
Cobalt	ug/L	MW-21	03/08/2023		5.7300	7.9000
Cobalt	ug/L	MW-21	09/13/2023		4.6800	7.9000
Cobalt	ug/L	MW-21	05/29/2024		7.1500	7.9000
Cobalt	ug/L	MW-21	10/15/2024		13.4000 *	7.9000
Cobalt	ug/L	MW-21	04/16/2025		19.0000 *	7.9000
Copper	ug/L	MW-21	12/23/2008	ND	20.0000	5.0000
Copper	ug/L	MW-21	03/03/2009		21.1000 *	5.0000
Copper	ug/L	MW-21	08/21/2009	ND	20.0000	5.0000
Copper	ug/L	MW-21	12/15/2009	ND	20.0000	5.0000
Copper	ug/L	MW-21	03/11/2010	ND	20.0000	5.0000
Copper	ug/L	MW-21	08/31/2010	ND	20.0000	5.0000
Copper	ug/L	MW-21	02/16/2011	ND	20.0000	5.0000
Copper	ug/L	MW-21	07/07/2011	ND	20.0000	5.0000
Copper	ug/L	MW-21	10/27/2011	ND	20.0000	5.0000
Copper	ug/L	MW-21	04/26/2012		127.0000 *	5.0000
Copper	ug/L	MW-21	10/09/2012	ND	20.0000	5.0000
Copper	ug/L	MW-21	02/20/2013		20.3000 *	5.0000
Copper	ug/L	MW-21	10/03/2013	ND	20.0000	5.0000
Copper	ug/L	MW-21	04/22/2014	ND	7.7900	5.0000
Copper	ug/L	MW-21	05/12/2015		13.6000 *	5.0000
Copper	ug/L	MW-21	07/29/2015		5.0400 *	5.0000
Copper	ug/L	MW-21	02/15/2016		2.8500	5.0000
Copper	ug/L	MW-21	10/31/2016	ND	5.0000	5.0000
Copper	ug/L	MW-21	03/27/2017	ND	2.6200	5.0000
Copper	ug/L	MW-21	11/13/2017	ND	2.2700	5.0000
Copper	ug/L	MW-21	06/06/2018		2.6100	5.0000
Copper	ug/L	MW-21	11/27/2018		5.7700 *	5.0000

* - 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
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Copper	ug/L	MW-21	03/18/2019	ND	5.0000	5.0000
Copper	ug/L	MW-21	12/02/2019	ND	5.0000	5.0000
Copper	ug/L	MW-21	03/30/2020	ND	5.0000	5.0000
Copper	ug/L	MW-21	11/17/2020	ND	5.0000	5.0000
Copper	ug/L	MW-21	05/06/2021	ND	5.0000	5.0000
Copper	ug/L	MW-21	10/07/2021	ND	5.0000	5.0000
Copper	ug/L	MW-21	04/06/2022	ND	5.0000	5.0000
Copper	ug/L	MW-21	08/23/2022	ND	5.0000	5.0000
Copper	ug/L	MW-21	03/08/2023	ND	5.0000	5.0000
Copper	ug/L	MW-21	09/13/2023	ND	5.0000	5.0000
Copper	ug/L	MW-21	05/29/2024	ND	5.0000	5.0000
Copper	ug/L	MW-21	10/15/2024	*	7.4000	5.0000
Copper	ug/L	MW-21	04/16/2025	ND	5.0000	5.0000
Nickel	ug/L	MW-21	12/23/2008	ND	50.0000	6.5000
Nickel	ug/L	MW-21	03/03/2009	ND	50.0000	6.5000
Nickel	ug/L	MW-21	08/21/2009	ND	50.0000	6.5000
Nickel	ug/L	MW-21	12/15/2009	ND	50.0000	6.5000
Nickel	ug/L	MW-21	03/11/2010	ND	50.0000	6.5000
Nickel	ug/L	MW-21	08/31/2010	ND	50.0000	6.5000
Nickel	ug/L	MW-21	02/16/2011	ND	50.0000	6.5000
Nickel	ug/L	MW-21	07/07/2011	ND	50.0000	6.5000
Nickel	ug/L	MW-21	10/27/2011	ND	50.0000	6.5000
Nickel	ug/L	MW-21	04/26/2012	*	204.0000	6.5000
Nickel	ug/L	MW-21	10/09/2012	ND	50.0000	6.5000
Nickel	ug/L	MW-21	02/20/2013	ND	50.0000	6.5000
Nickel	ug/L	MW-21	10/03/2013	*	72.9000	6.5000
Nickel	ug/L	MW-21	04/22/2014	ND	33.5000	6.5000
Nickel	ug/L	MW-21	05/12/2015	*	17.2000	6.5000
Nickel	ug/L	MW-21	07/29/2015	*	18.5000	6.5000
Nickel	ug/L	MW-21	02/15/2016	*	7.7700	6.5000
Nickel	ug/L	MW-21	10/31/2016	*	14.3000	6.5000
Nickel	ug/L	MW-21	03/27/2017	*	9.9800	6.5000
Nickel	ug/L	MW-21	11/13/2017	*	10.8000	6.5000
Nickel	ug/L	MW-21	06/06/2018	*	12.2000	6.5000
Nickel	ug/L	MW-21	11/27/2018	*	6.5500	6.5000
Nickel	ug/L	MW-21	03/18/2019	*	6.0900	6.5000
Nickel	ug/L	MW-21	12/02/2019	ND	3.4800	6.5000
Nickel	ug/L	MW-21	03/30/2020	ND	5.0000	6.5000
Nickel	ug/L	MW-21	11/17/2020	ND	3.1400	6.5000
Nickel	ug/L	MW-21	05/06/2021	ND	2.6800	6.5000
Nickel	ug/L	MW-21	10/07/2021	ND	4.3200	6.5000
Nickel	ug/L	MW-21	04/06/2022	ND	3.5600	6.5000
Nickel	ug/L	MW-21	08/23/2022	ND	3.5500	6.5000
Nickel	ug/L	MW-21	03/08/2023	*	8.5300	6.5000
Nickel	ug/L	MW-21	09/13/2023	ND	4.4400	6.5000
Nickel	ug/L	MW-21	05/29/2024	*	11.7000	6.5000
Nickel	ug/L	MW-21	10/15/2024	*	27.2000	6.5000
Nickel	ug/L	MW-21	04/16/2025	*	18.0000	6.5000
Barium	ug/L	MW-24	04/26/2012		595.0000	683.1743
Barium	ug/L	MW-24	07/29/2015		662.0000	683.1743
Barium	ug/L	MW-24	02/15/2016	*	688.0000	683.1743
Barium	ug/L	MW-24	10/31/2016		151.0000	683.1743
Barium	ug/L	MW-24	03/27/2017		172.0000	683.1743
Barium	ug/L	MW-24	11/13/2017		198.0000	683.1743
Barium	ug/L	MW-24	06/06/2018		259.0000	683.1743
Barium	ug/L	MW-24	11/26/2018		200.0000	683.1743
Barium	ug/L	MW-24	03/30/2020	*	761.0000	683.1743
Barium	ug/L	MW-24	11/17/2020	*	896.0000	683.1743
Barium	ug/L	MW-24	05/06/2021	*	735.0000	683.1743
Barium	ug/L	MW-24	10/07/2021	*	785.0000	683.1743
Barium	ug/L	MW-24	04/06/2022	*	702.0000	683.1743
Barium	ug/L	MW-24	07/08/2022	*	679.0000	683.1743
Barium	ug/L	MW-24	08/23/2022	*	774.0000	683.1743
Barium	ug/L	MW-24	09/29/2022	*	834.0000	683.1743
Barium	ug/L	MW-24	03/08/2023	*	819.0000	683.1743
Barium	ug/L	MW-24	09/13/2023	*	712.0000	683.1743
Barium	ug/L	MW-24	05/29/2024	*	581.0000	683.1743
Barium	ug/L	MW-24	10/15/2024	*	700.0000	683.1743
Barium	ug/L	MW-24	04/16/2025	*	779.0000	683.1743
Nickel	ug/L	MW-24	05/15/2013	ND	50.0000	6.5000
Nickel	ug/L	MW-24	07/29/2015	*	11.7000	6.5000

* - 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
Nickel	ug/L	MW-24	02/15/2016		28.0000 *	6.5000
Nickel	ug/L	MW-24	10/31/2016	ND	3.5500	6.5000
Nickel	ug/L	MW-24	03/27/2017	ND	3.0200	6.5000
Nickel	ug/L	MW-24	11/13/2017	ND	3.6600	6.5000
Nickel	ug/L	MW-24	06/06/2018		5.5500	6.5000
Nickel	ug/L	MW-24	11/26/2018	ND	2.7200	6.5000
Nickel	ug/L	MW-24	04/06/2022		32.3000 *	6.5000
Nickel	ug/L	MW-24	07/08/2022		29.0000 *	6.5000
Nickel	ug/L	MW-24	08/23/2022		30.6000 *	6.5000
Nickel	ug/L	MW-24	09/29/2022		29.1000 *	6.5000
Nickel	ug/L	MW-24	03/08/2023		30.1000 *	6.5000
Nickel	ug/L	MW-24	09/13/2023		23.9000 *	6.5000
Nickel	ug/L	MW-24	05/29/2024		30.5000 *	6.5000
Nickel	ug/L	MW-24	10/15/2024		32.7000 *	6.5000
Nickel	ug/L	MW-24	04/16/2025		31.3000 *	6.5000
Barium	ug/L	MW-37R	11/27/2018		828.0000 *	683.1743
Barium	ug/L	MW-37R	03/18/2019		887.0000 *	683.1743
Barium	ug/L	MW-37R	06/05/2019		710.0000 *	683.1743
Barium	ug/L	MW-37R	08/22/2019		879.0000 *	683.1743
Barium	ug/L	MW-37R	12/02/2019		786.0000 *	683.1743
Barium	ug/L	MW-37R	02/28/2020		857.0000 *	683.1743
Barium	ug/L	MW-37R	03/30/2020		805.0000 *	683.1743
Barium	ug/L	MW-37R	11/17/2020		780.0000 *	683.1743
Barium	ug/L	MW-37R	05/06/2021		907.0000 *	683.1743
Barium	ug/L	MW-37R	10/07/2021		911.0000 *	683.1743
Barium	ug/L	MW-37R	04/06/2022		939.0000 *	683.1743
Barium	ug/L	MW-37R	03/08/2023		863.0000 *	683.1743
Barium	ug/L	MW-37R	09/13/2023		693.0000 *	683.1743
Barium	ug/L	MW-37R	05/29/2024		686.0000 *	683.1743
Barium	ug/L	MW-37R	10/15/2024		715.0000 *	683.1743
Barium	ug/L	MW-37R	04/16/2025		687.0000 *	683.1743
Selenium	ug/L	MW-37R	11/27/2018		12.3000 *	5.0000
Selenium	ug/L	MW-37R	03/18/2019		8.0750 *	5.0000
Selenium	ug/L	MW-37R	06/05/2019		10.0000 *	5.0000
Selenium	ug/L	MW-37R	08/22/2019		6.3200 *	5.0000
Selenium	ug/L	MW-37R	12/02/2019		5.0400 *	5.0000
Selenium	ug/L	MW-37R	02/28/2020	ND	4.5800	5.0000
Selenium	ug/L	MW-37R	03/30/2020		5.0100 *	5.0000
Selenium	ug/L	MW-37R	11/17/2020		17.9000 *	5.0000
Selenium	ug/L	MW-37R	05/06/2021		12.9500 *	5.0000
Selenium	ug/L	MW-37R	10/07/2021		11.9000 *	5.0000
Selenium	ug/L	MW-37R	04/06/2022		14.3000 *	5.0000
Selenium	ug/L	MW-37R	03/08/2023		20.1000 *	5.0000
Selenium	ug/L	MW-37R	09/13/2023		55.8000 *	5.0000
Selenium	ug/L	MW-37R	05/29/2024		40.5000 *	5.0000
Selenium	ug/L	MW-37R	10/15/2024		15.8000 *	5.0000
Selenium	ug/L	MW-37R	04/16/2025		50.3000 *	5.0000
Cadmium	ug/L	MW-38R	11/27/2018	ND	0.1320	1.2500
Cadmium	ug/L	MW-38R	03/18/2019	ND	0.1510	1.2500
Cadmium	ug/L	MW-38R	06/05/2019	ND	0.2750	1.2500
Cadmium	ug/L	MW-38R	08/22/2019	ND	0.3980	1.2500
Cadmium	ug/L	MW-38R	12/02/2019		0.3210	1.2500
Cadmium	ug/L	MW-38R	02/28/2020		0.3910	1.2500
Cadmium	ug/L	MW-38R	03/30/2020		0.5250	1.2500
Cadmium	ug/L	MW-38R	11/17/2020		0.2200	1.2500
Cadmium	ug/L	MW-38R	05/06/2021		0.2760	1.2500
Cadmium	ug/L	MW-38R	04/06/2022		0.1970	1.2500
Cadmium	ug/L	MW-38R	08/23/2022		0.1610	1.2500
Cadmium	ug/L	MW-38R	03/08/2023	ND	0.0780	1.2500
Cadmium	ug/L	MW-38R	09/13/2023	ND	0.2000	1.2500
Cadmium	ug/L	MW-38R	05/29/2024	ND	0.1250	1.2500
Cadmium	ug/L	MW-38R	10/15/2024		1.9000 *	1.2500
Cadmium	ug/L	MW-38R	04/16/2025		0.2000	1.2500
Chromium	ug/L	MW-38R	11/27/2018	ND	5.0000	5.0000
Chromium	ug/L	MW-38R	03/18/2019	ND	5.0000	5.0000
Chromium	ug/L	MW-38R	06/05/2019	ND	5.0000	5.0000
Chromium	ug/L	MW-38R	08/22/2019		14.6000 *	5.0000
Chromium	ug/L	MW-38R	12/02/2019	ND	5.0000	5.0000
Chromium	ug/L	MW-38R	03/30/2020	ND	5.0000	5.0000
Chromium	ug/L	MW-38R	11/17/2020	ND	5.0000	5.0000
Chromium	ug/L	MW-38R	05/06/2021	ND	5.0000	5.0000

* - Significantly increased over background.

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Table 8

**Historical Downgradient Data for Constituent-Well Combinations
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Constituent	Units	Well	Date		Result	Pred. Limit
Chromium	ug/L	MW-38R	04/06/2022	ND	5.0000	5.0000
Chromium	ug/L	MW-38R	08/23/2022	ND	5.0000	5.0000
Chromium	ug/L	MW-38R	03/08/2023	ND	4.5700	5.0000
Chromium	ug/L	MW-38R	09/13/2023	ND	3.7500	5.0000
Chromium	ug/L	MW-38R	05/29/2024		177.0000 *	5.0000
Chromium	ug/L	MW-38R	10/15/2024		218.0000 *	5.0000
Chromium	ug/L	MW-38R	04/16/2025		3.2000	5.0000
Cobalt	ug/L	MW-38R	11/27/2018	ND	0.4290	7.9000
Cobalt	ug/L	MW-38R	03/18/2019	ND	0.4700	7.9000
Cobalt	ug/L	MW-38R	06/05/2019		1.3600	7.9000
Cobalt	ug/L	MW-38R	08/22/2019		1.1300	7.9000
Cobalt	ug/L	MW-38R	12/02/2019		3.8400	7.9000
Cobalt	ug/L	MW-38R	02/28/2020		2.6200	7.9000
Cobalt	ug/L	MW-38R	03/30/2020		3.1700	7.9000
Cobalt	ug/L	MW-38R	11/17/2020	ND	0.2130	7.9000
Cobalt	ug/L	MW-38R	05/06/2021		0.5010	7.9000
Cobalt	ug/L	MW-38R	04/06/2022	ND	0.4770	7.9000
Cobalt	ug/L	MW-38R	08/23/2022	ND	0.2610	7.9000
Cobalt	ug/L	MW-38R	03/08/2023	ND	0.3230	7.9000
Cobalt	ug/L	MW-38R	09/13/2023	ND	0.1850	7.9000
Cobalt	ug/L	MW-38R	05/29/2024		2.8700	7.9000
Cobalt	ug/L	MW-38R	10/15/2024		16.8000 *	7.9000
Cobalt	ug/L	MW-38R	04/16/2025		0.5000	7.9000
Copper	ug/L	MW-38R	11/27/2018	ND	5.0000	5.0000
Copper	ug/L	MW-38R	03/18/2019	ND	5.0000	5.0000
Copper	ug/L	MW-38R	06/05/2019	ND	1.9200	5.0000
Copper	ug/L	MW-38R	08/22/2019	ND	5.0000	5.0000
Copper	ug/L	MW-38R	12/02/2019	ND	5.0000	5.0000
Copper	ug/L	MW-38R	03/30/2020	ND	5.0000	5.0000
Copper	ug/L	MW-38R	11/17/2020	ND	1.9000	5.0000
Copper	ug/L	MW-38R	05/06/2021	ND	2.4500	5.0000
Copper	ug/L	MW-38R	04/06/2022	ND	2.0100	5.0000
Copper	ug/L	MW-38R	08/23/2022	ND	5.0000	5.0000
Copper	ug/L	MW-38R	03/08/2023	ND	5.0000	5.0000
Copper	ug/L	MW-38R	09/13/2023	ND	5.0000	5.0000
Copper	ug/L	MW-38R	05/29/2024		5.8800 *	5.0000
Copper	ug/L	MW-38R	10/15/2024		23.9000 *	5.0000
Copper	ug/L	MW-38R	04/16/2025	ND	5.0000	5.0000
Lead	ug/L	MW-38R	11/27/2018	ND	0.5000	1.0000
Lead	ug/L	MW-38R	03/18/2019	ND	0.5000	1.0000
Lead	ug/L	MW-38R	06/05/2019	ND	0.5000	1.0000
Lead	ug/L	MW-38R	08/22/2019	ND	0.2860	1.0000
Lead	ug/L	MW-38R	12/02/2019	ND	0.2780	1.0000
Lead	ug/L	MW-38R	03/30/2020	ND	0.4030	1.0000
Lead	ug/L	MW-38R	11/17/2020	ND	0.5000	1.0000
Lead	ug/L	MW-38R	05/06/2021		0.6010	1.0000
Lead	ug/L	MW-38R	04/06/2022		0.6840	1.0000
Lead	ug/L	MW-38R	08/23/2022	ND	0.3630	1.0000
Lead	ug/L	MW-38R	03/08/2023	ND	0.5000	1.0000
Lead	ug/L	MW-38R	09/13/2023	ND	0.5000	1.0000
Lead	ug/L	MW-38R	05/29/2024	ND	0.3140	1.0000
Lead	ug/L	MW-38R	10/15/2024		14.5000 *	1.0000
Lead	ug/L	MW-38R	04/16/2025	ND	1.0000	1.0000
Nickel	ug/L	MW-38R	11/27/2018		6.2500	6.5000
Nickel	ug/L	MW-38R	03/18/2019	ND	3.9800	6.5000
Nickel	ug/L	MW-38R	06/05/2019		11.0000 *	6.5000
Nickel	ug/L	MW-38R	08/22/2019		10.8000 *	6.5000
Nickel	ug/L	MW-38R	12/02/2019		10.8000 *	6.5000
Nickel	ug/L	MW-38R	02/28/2020		10.5000 *	6.5000
Nickel	ug/L	MW-38R	03/30/2020		8.9900 *	6.5000
Nickel	ug/L	MW-38R	11/17/2020		8.1100 *	6.5000
Nickel	ug/L	MW-38R	05/06/2021		7.3900 *	6.5000
Nickel	ug/L	MW-38R	04/06/2022	ND	2.7700	6.5000
Nickel	ug/L	MW-38R	08/23/2022	ND	4.4600	6.5000
Nickel	ug/L	MW-38R	03/08/2023		5.6900	6.5000
Nickel	ug/L	MW-38R	09/13/2023	ND	4.0900	6.5000
Nickel	ug/L	MW-38R	05/29/2024		135.0000 *	6.5000
Nickel	ug/L	MW-38R	10/15/2024		145.0000 *	6.5000
Nickel	ug/L	MW-38R	04/16/2025	ND	5.0000	6.5000
Selenium	ug/L	MW-38R	11/27/2018	ND	5.0000	5.0000
Selenium	ug/L	MW-38R	03/18/2019	ND	5.0000	5.0000

* - Significantly increased over background.

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*** - Manual exclusion.

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Constituent	Units	Well	Date		Result	Pred. Limit
Selenium	ug/L	MW-38R	06/05/2019	ND	2.5000	5.0000
Selenium	ug/L	MW-38R	08/22/2019	ND	5.0000	5.0000
Selenium	ug/L	MW-38R	12/02/2019	ND	5.0000	5.0000
Selenium	ug/L	MW-38R	03/30/2020	ND	5.0000	5.0000
Selenium	ug/L	MW-38R	11/17/2020	ND	5.0000	5.0000
Selenium	ug/L	MW-38R	05/06/2021	ND	1.7700	5.0000
Selenium	ug/L	MW-38R	04/06/2022		13.6000 *	5.0000
Selenium	ug/L	MW-38R	08/23/2022		10.3000 *	5.0000
Selenium	ug/L	MW-38R	03/08/2023		29.1000 *	5.0000
Selenium	ug/L	MW-38R	09/13/2023		26.4000 *	5.0000
Selenium	ug/L	MW-38R	05/29/2024		43.2000 *	5.0000
Selenium	ug/L	MW-38R	10/15/2024		7.8000 *	5.0000
Selenium	ug/L	MW-38R	04/16/2025		3.2000	5.0000
Vanadium	ug/L	MW-38R	11/27/2018	ND	1.0700	5.2000
Vanadium	ug/L	MW-38R	03/18/2019	ND	0.9310	5.2000
Vanadium	ug/L	MW-38R	06/05/2019	ND	5.0000	5.2000
Vanadium	ug/L	MW-38R	08/22/2019	ND	1.3100	5.2000
Vanadium	ug/L	MW-38R	12/02/2019	ND	0.9950	5.2000
Vanadium	ug/L	MW-38R	03/30/2020	ND	1.4800	5.2000
Vanadium	ug/L	MW-38R	11/17/2020	ND	1.5400	5.2000
Vanadium	ug/L	MW-38R	05/06/2021	ND	2.5200	5.2000
Vanadium	ug/L	MW-38R	04/06/2022	ND	2.7600	5.2000
Vanadium	ug/L	MW-38R	08/23/2022	ND	1.3700	5.2000
Vanadium	ug/L	MW-38R	03/08/2023	ND	5.0000	5.2000
Vanadium	ug/L	MW-38R	09/13/2023	ND	5.0000	5.2000
Vanadium	ug/L	MW-38R	05/29/2024	ND	2.2300	5.2000
Vanadium	ug/L	MW-38R	10/15/2024		59.3000 *	5.2000
Vanadium	ug/L	MW-38R	04/16/2025	ND	2.0000	5.2000
Selenium	ug/L	MW-39	08/21/2009		83.7000 *	5.0000
Selenium	ug/L	MW-39	12/15/2009		164.0000 *	5.0000
Selenium	ug/L	MW-39	02/18/2010		78.4000 *	5.0000
Selenium	ug/L	MW-39	03/11/2010		80.9500 *	5.0000
Selenium	ug/L	MW-39	05/27/2010		73.7000 *	5.0000
Selenium	ug/L	MW-39	08/31/2010		82.4000 *	5.0000
Selenium	ug/L	MW-39	11/04/2010		72.1000 *	5.0000
Selenium	ug/L	MW-39	02/16/2011		74.3000 *	5.0000
Selenium	ug/L	MW-39	07/07/2011		81.3000 *	5.0000
Selenium	ug/L	MW-39	10/27/2011		97.3000 *	5.0000
Selenium	ug/L	MW-39	04/26/2012		5.9000 *	5.0000
Selenium	ug/L	MW-39	10/09/2012		85.8000 *	5.0000
Selenium	ug/L	MW-39	02/20/2013		42.4000 *	5.0000
Selenium	ug/L	MW-39	10/03/2013		57.6000 *	5.0000
Selenium	ug/L	MW-39	04/22/2014		71.3000 *	5.0000
Selenium	ug/L	MW-39	10/14/2014		66.8000 *	5.0000
Selenium	ug/L	MW-39	05/12/2015		73.2000 *	5.0000
Selenium	ug/L	MW-39	07/29/2015		73.4000 *	5.0000
Selenium	ug/L	MW-39	02/15/2016		74.9000 *	5.0000
Selenium	ug/L	MW-39	10/31/2016		70.4000 *	5.0000
Selenium	ug/L	MW-39	03/27/2017		77.2000 *	5.0000
Selenium	ug/L	MW-39	11/13/2017		71.8500 *	5.0000
Selenium	ug/L	MW-39	06/06/2018		74.5000 *	5.0000
Selenium	ug/L	MW-39	11/27/2018		76.0000 *	5.0000
Selenium	ug/L	MW-39	03/18/2019		76.4000 *	5.0000
Selenium	ug/L	MW-39	12/02/2019		74.8000 *	5.0000
Selenium	ug/L	MW-39	03/30/2020		73.1000 *	5.0000
Selenium	ug/L	MW-39	11/17/2020		71.3000 *	5.0000
Selenium	ug/L	MW-39	05/06/2021		80.1000 *	5.0000
Selenium	ug/L	MW-39	10/07/2021		74.6000 *	5.0000
Selenium	ug/L	MW-39	04/06/2022		79.1000 *	5.0000
Selenium	ug/L	MW-39	08/23/2022		79.9000 *	5.0000
Selenium	ug/L	MW-39	03/08/2023		79.4000 *	5.0000
Selenium	ug/L	MW-39	09/13/2023		75.0500 *	5.0000
Selenium	ug/L	MW-39	05/29/2024		71.4000 *	5.0000
Selenium	ug/L	MW-39	10/15/2024		63.6000 *	5.0000
Selenium	ug/L	MW-39	04/16/2025		71.5000 *	5.0000

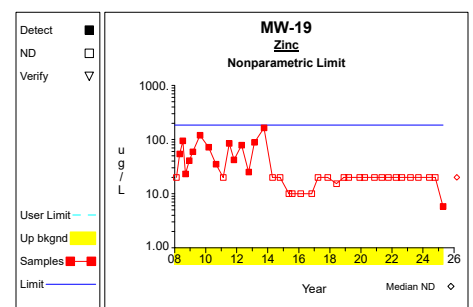
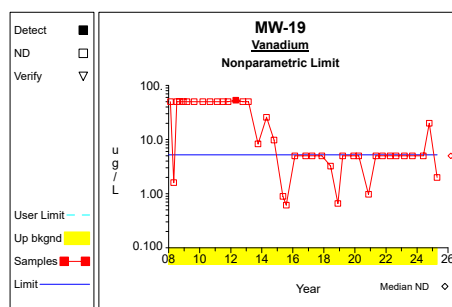
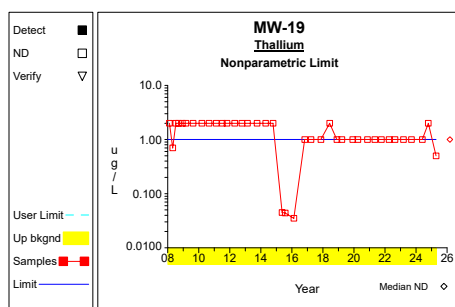
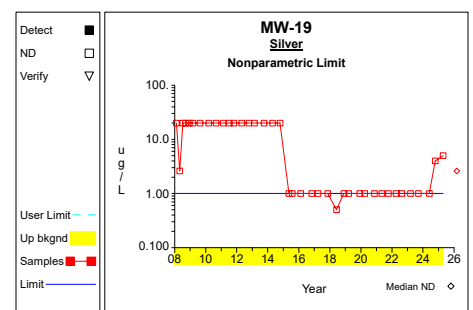
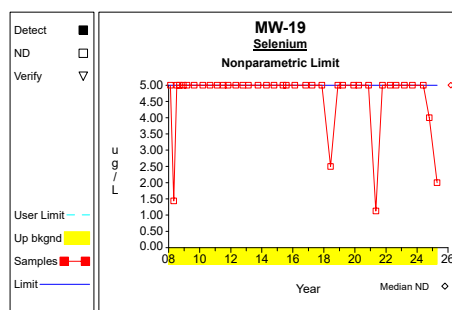
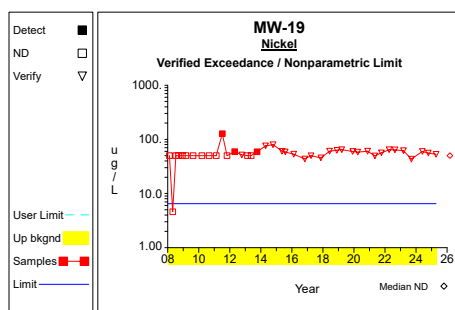
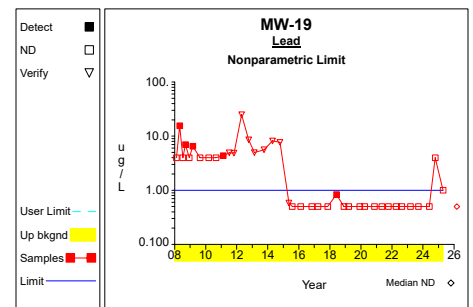
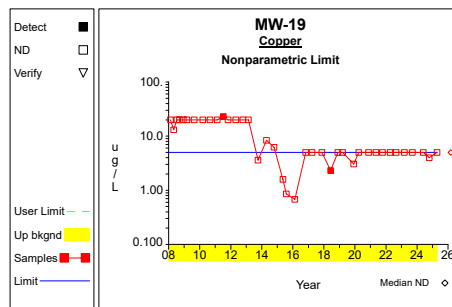
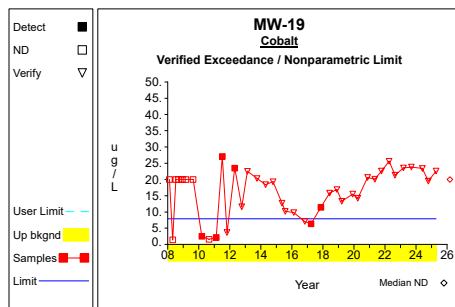
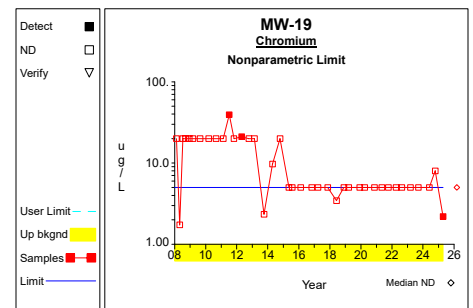
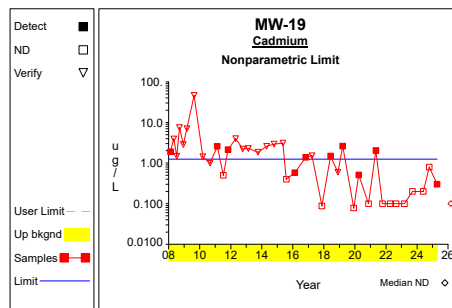
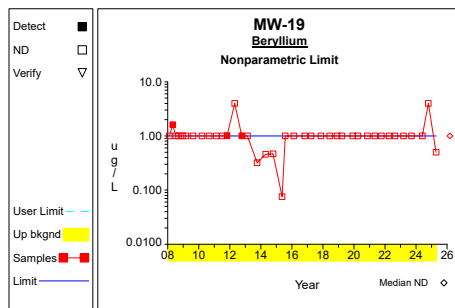
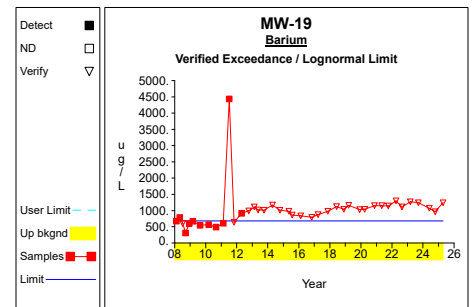
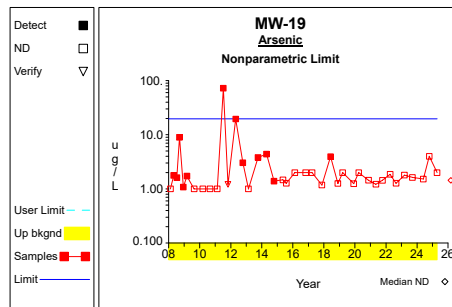
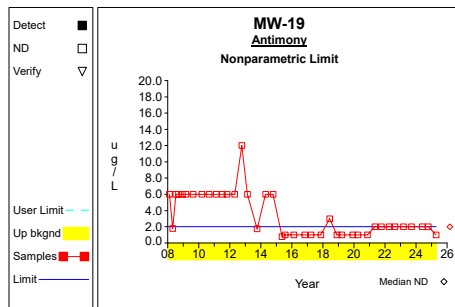
* - Significantly increased over background.

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

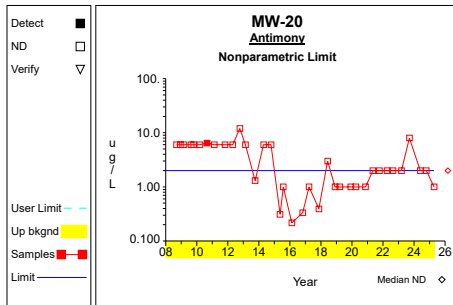
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

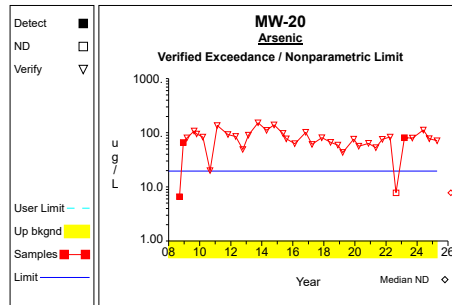
Up vs. Down Prediction Limits



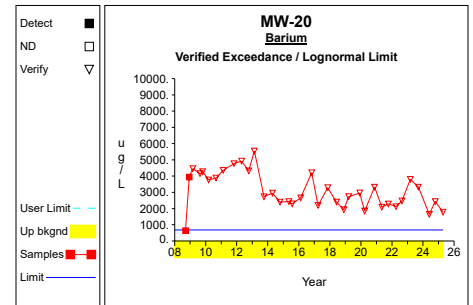
Up vs. Down Prediction Limits



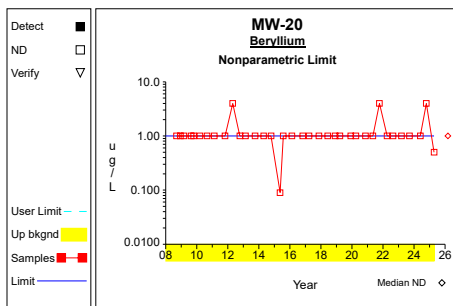
Graph 16



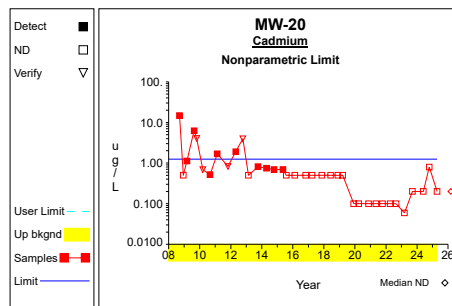
Graph 17



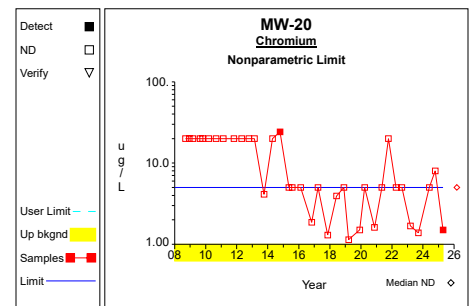
Graph 18



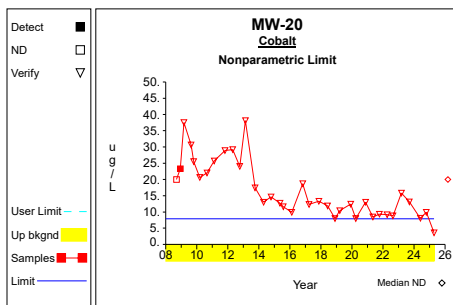
Graph 19



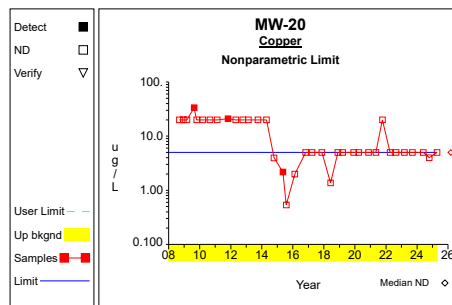
Graph 20



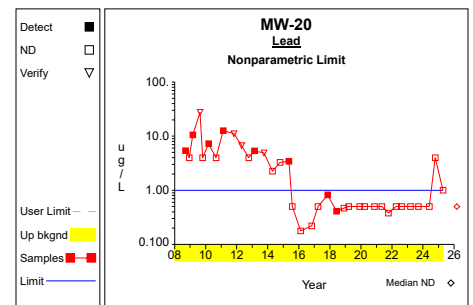
Graph 21



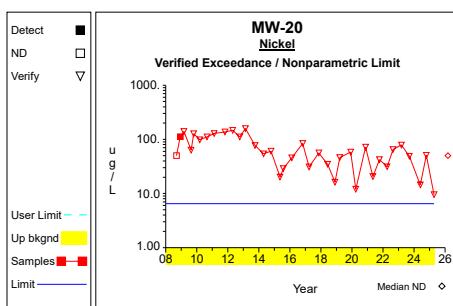
Graph 22



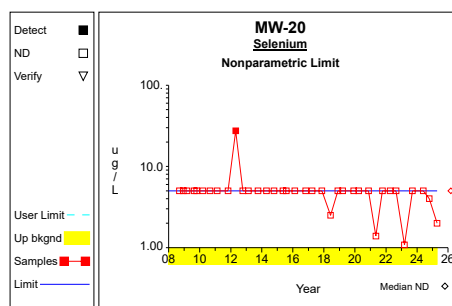
Graph 23



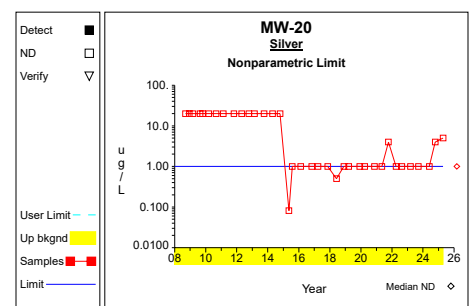
Graph 24



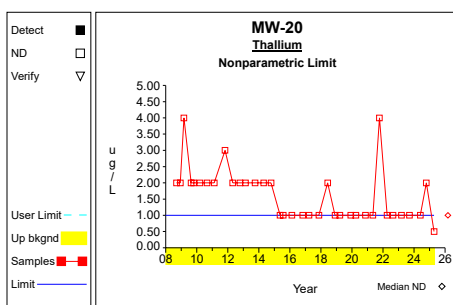
Graph 25



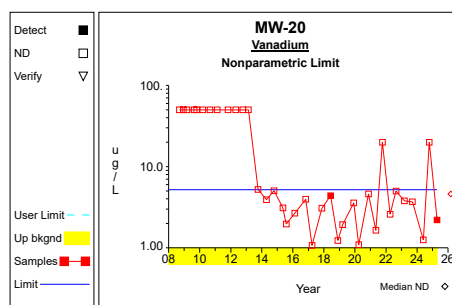
Graph 26



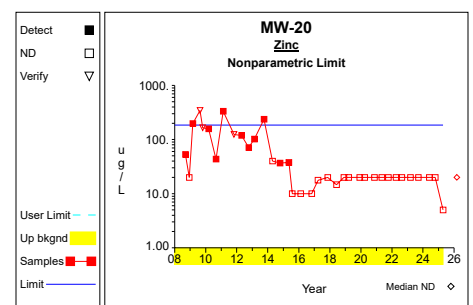
Graph 27



Graph 28

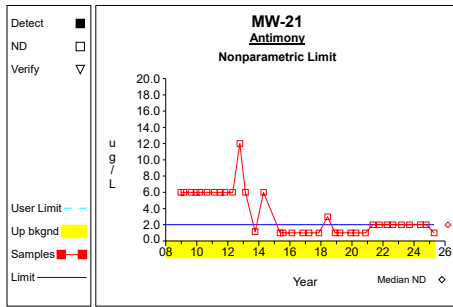


Graph 29

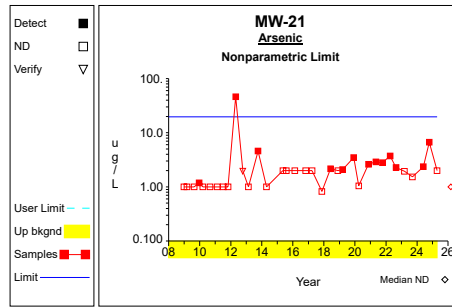


Graph 30

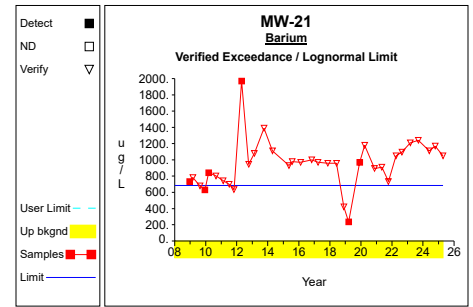
Up vs. Down Prediction Limits



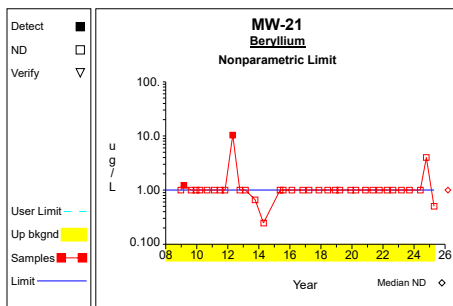
Graph 31



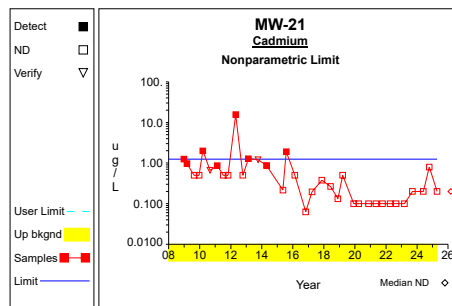
Graph 32



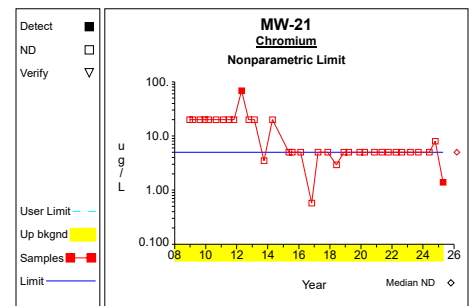
Graph 33



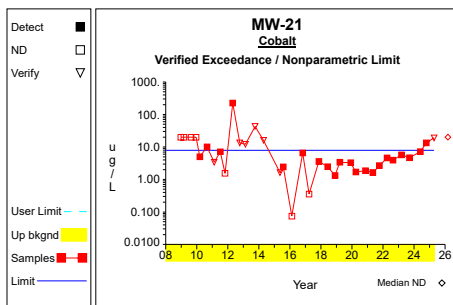
Graph 34



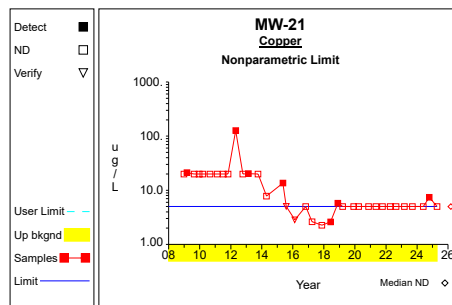
Graph 35



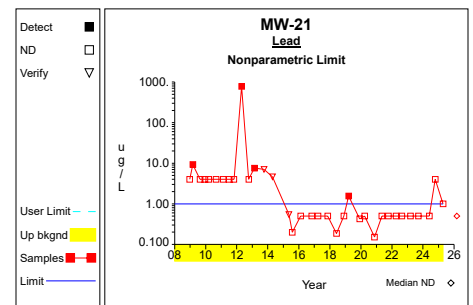
Graph 36



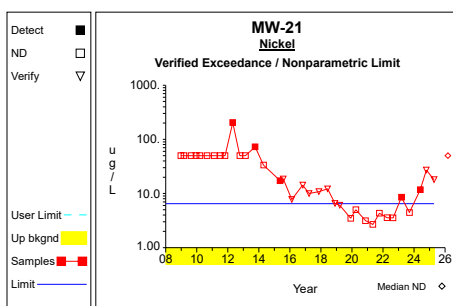
Graph 37



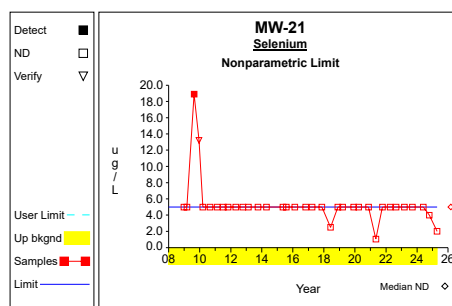
Graph 38



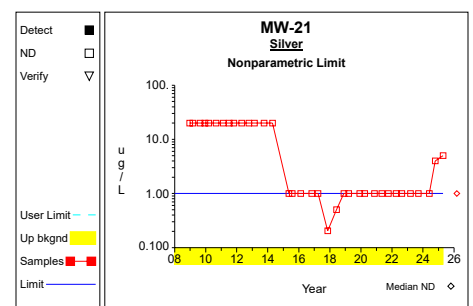
Graph 39



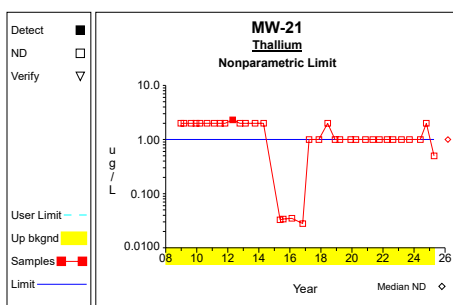
Graph 40



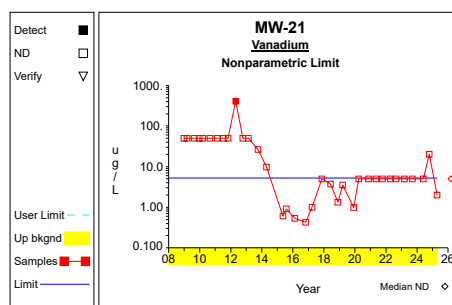
Graph 41



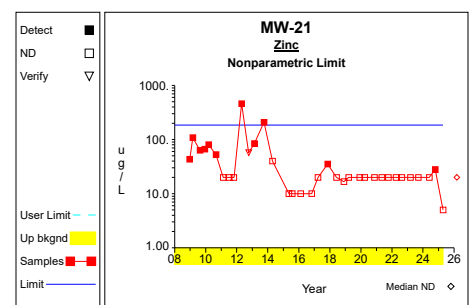
Graph 42



Graph 43

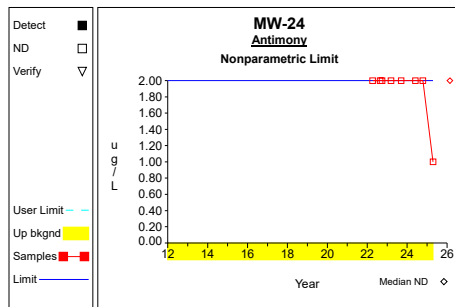


Graph 44

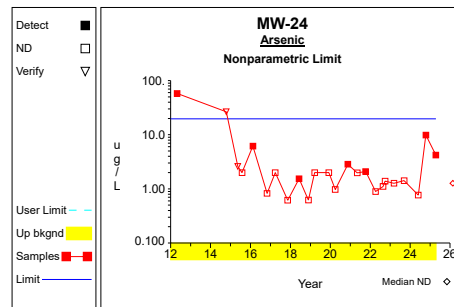


Graph 45

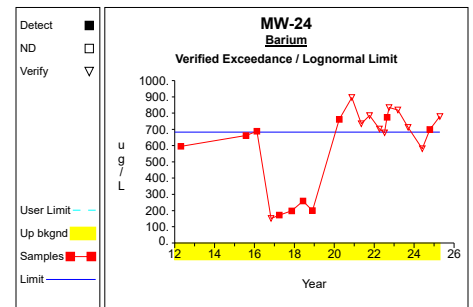
Up vs. Down Prediction Limits



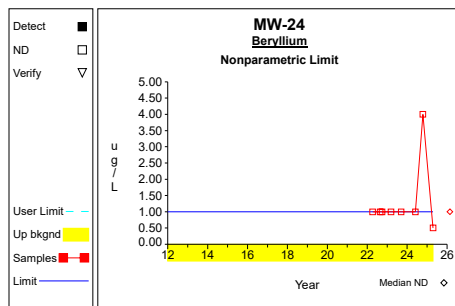
Graph 46



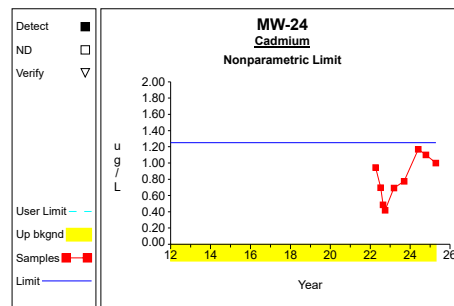
Graph 47



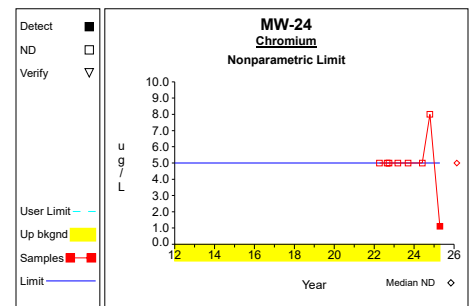
Graph 48



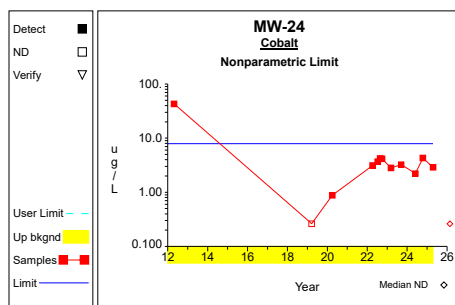
Graph 49



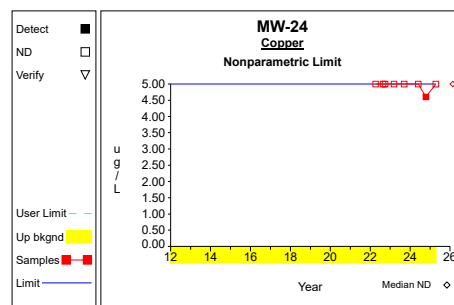
Graph 50



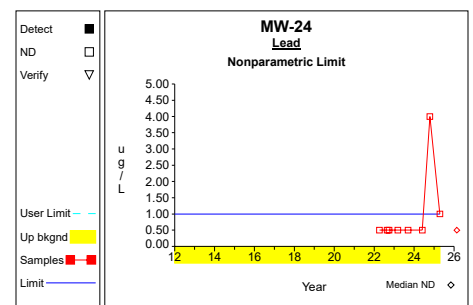
Graph 51



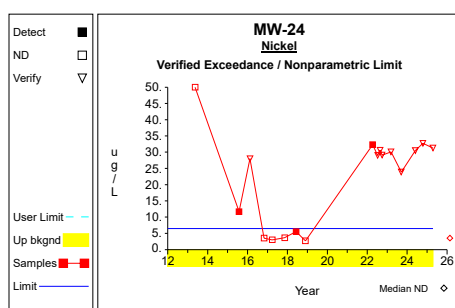
Graph 52



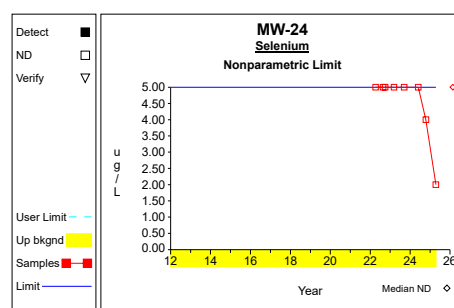
Graph 53



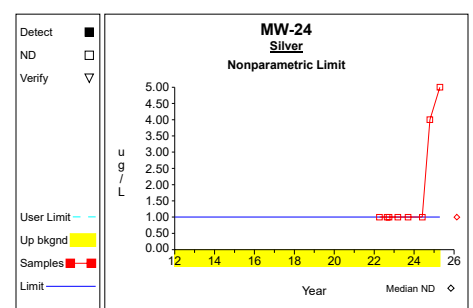
Graph 54



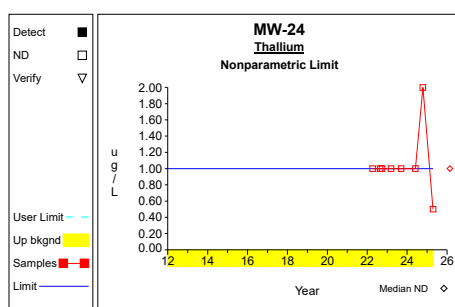
Graph 55



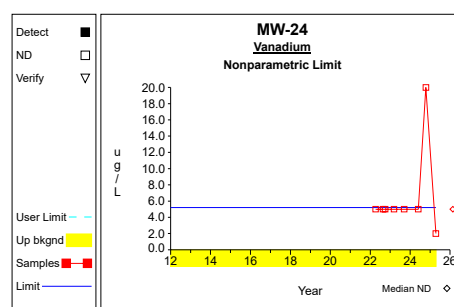
Graph 56



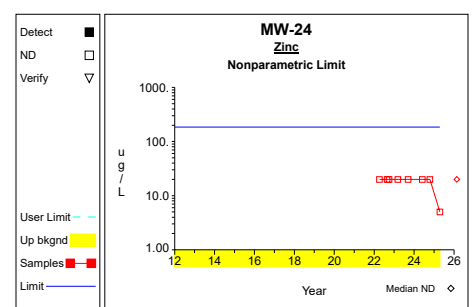
Graph 57



Graph 58

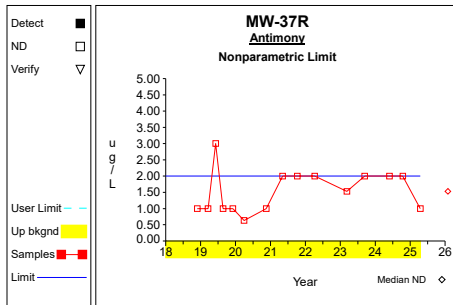


Graph 59

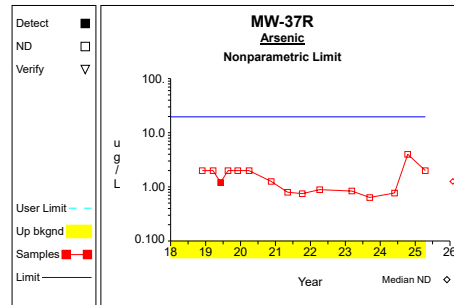


Graph 60

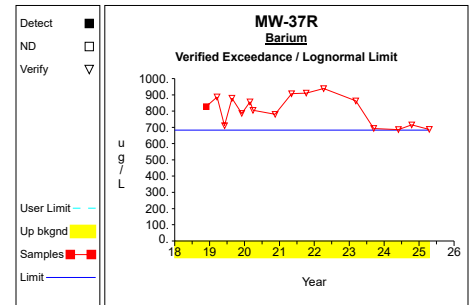
Up vs. Down Prediction Limits



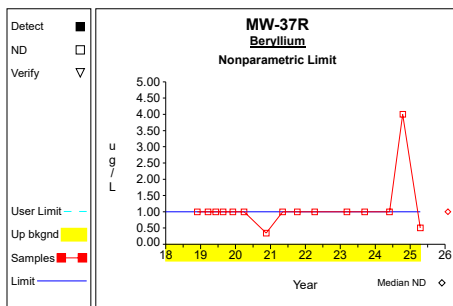
Graph 61



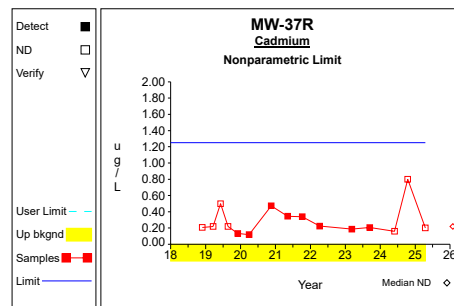
Graph 62



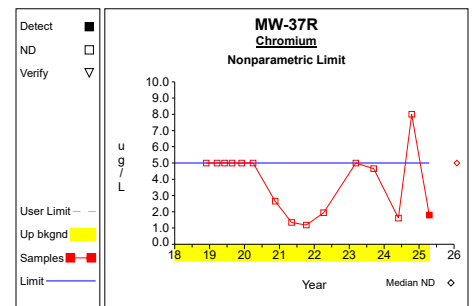
Graph 63



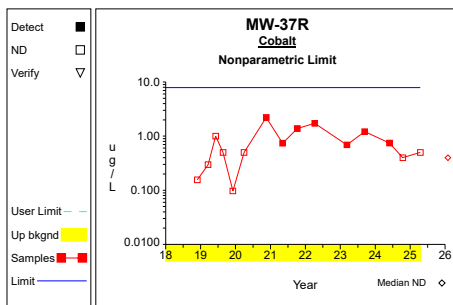
Graph 64



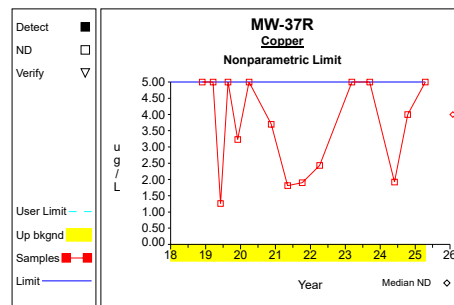
Graph 65



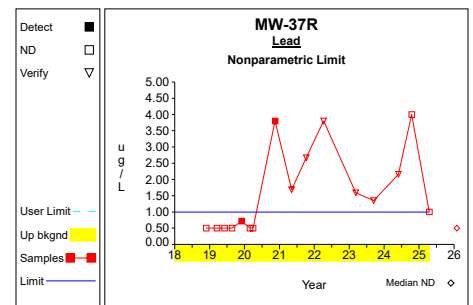
Graph 66



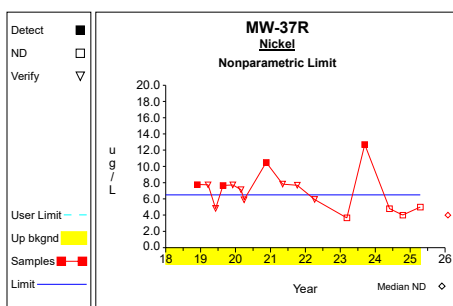
Graph 67



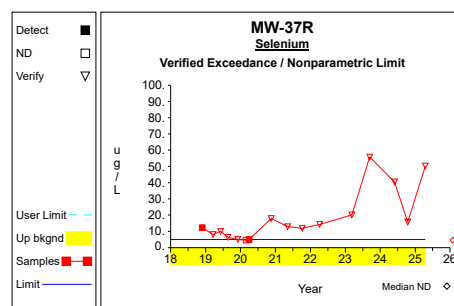
Graph 68



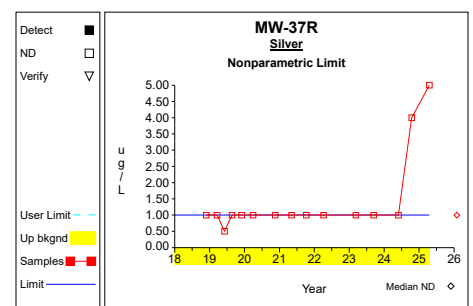
Graph 69



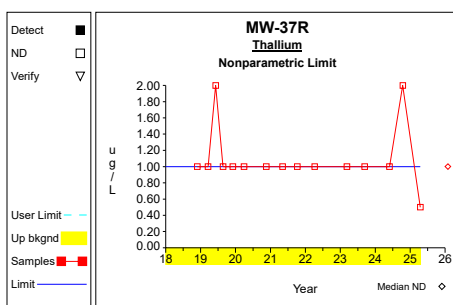
Graph 70



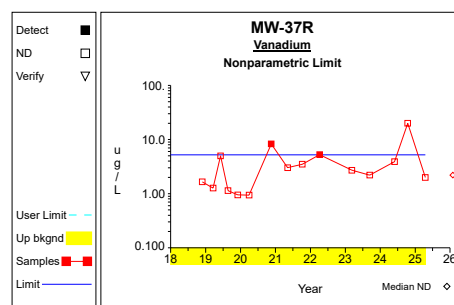
Graph 71



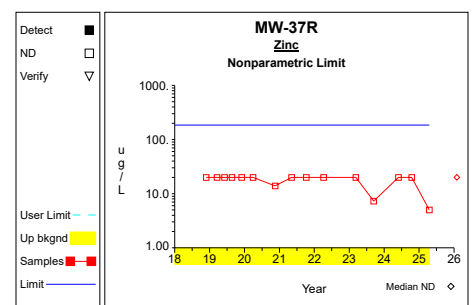
Graph 72



Graph 73

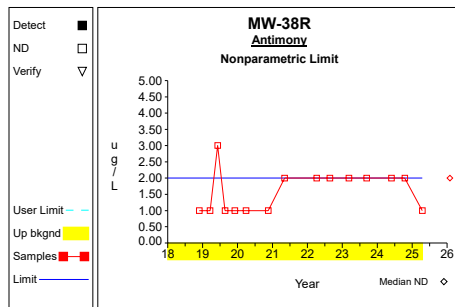


Graph 74

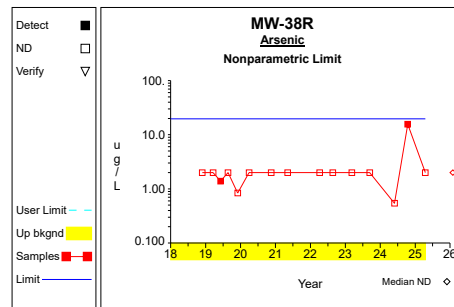


Graph 75

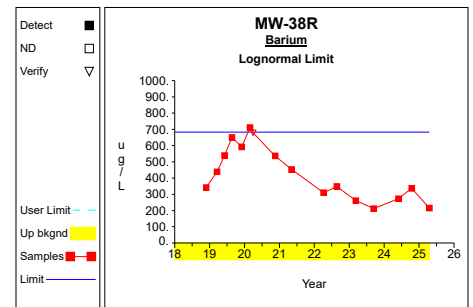
Up vs. Down Prediction Limits



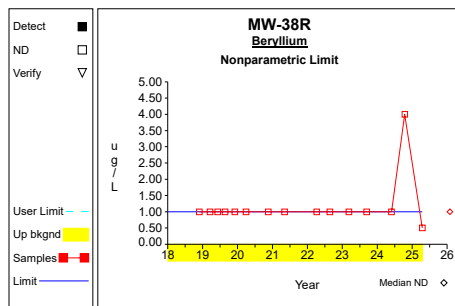
Graph 76



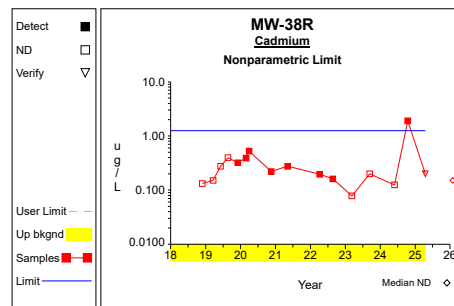
Graph 77



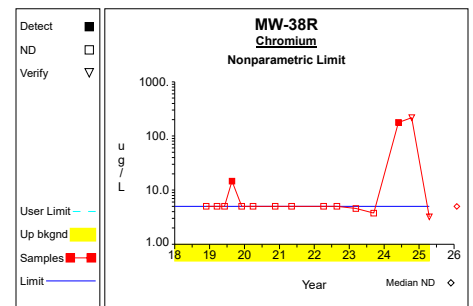
Graph 78



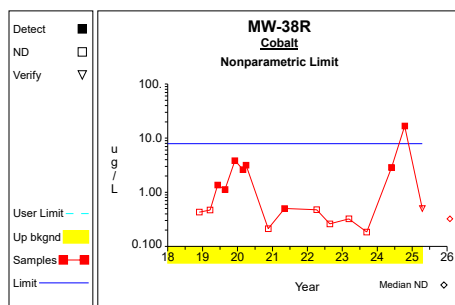
Graph 79



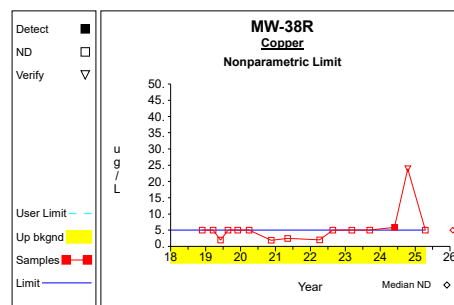
Graph 80



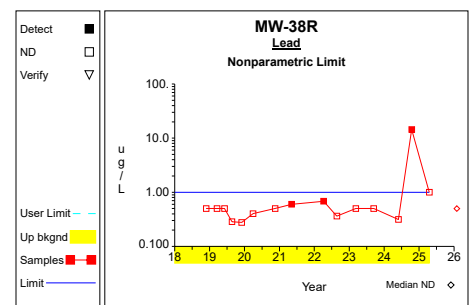
Graph 81



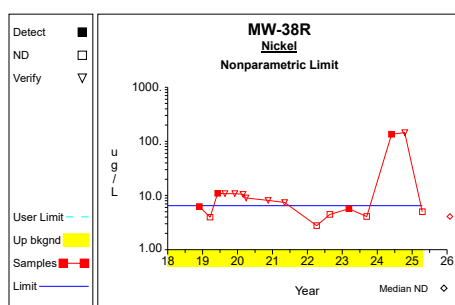
Graph 82



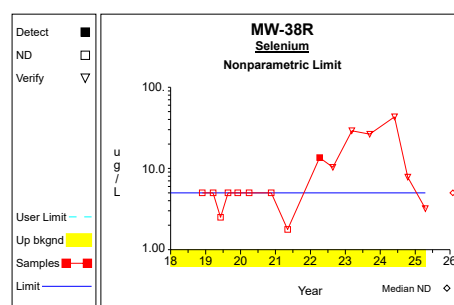
Graph 83



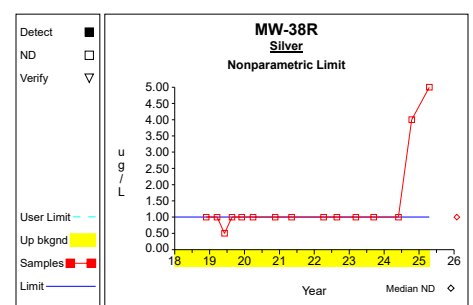
Graph 84



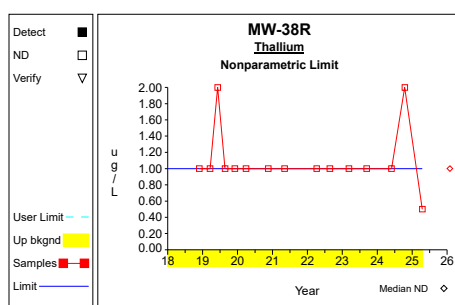
Graph 85



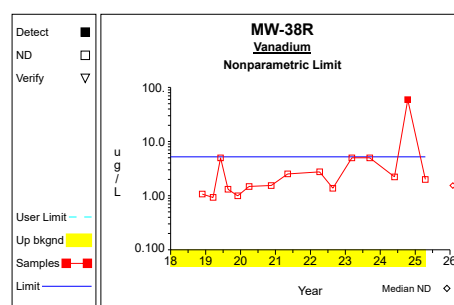
Graph 86



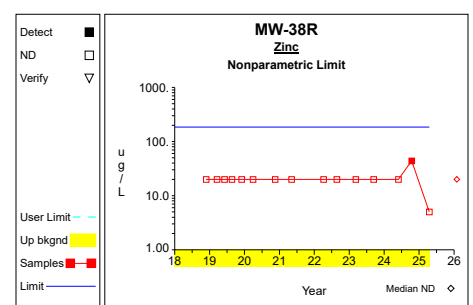
Graph 87



Graph 88

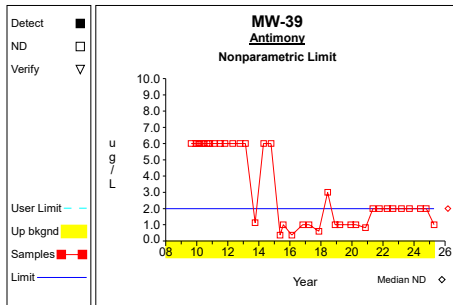


Graph 89

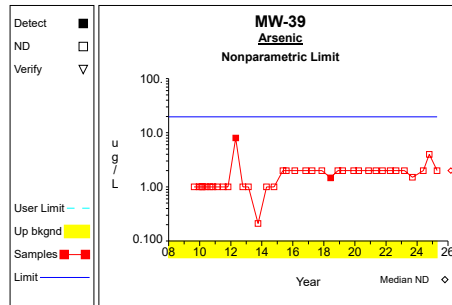


Graph 90

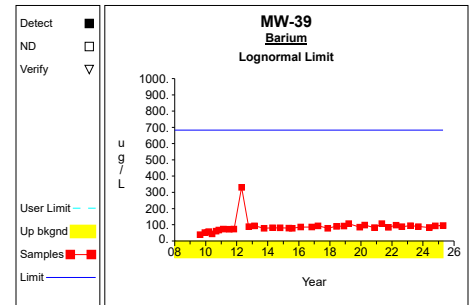
Up vs. Down Prediction Limits



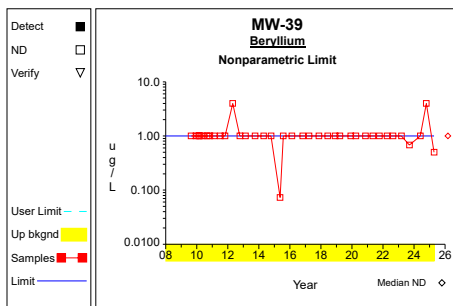
Graph 91



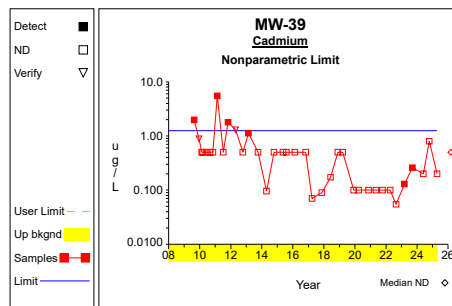
Graph 92



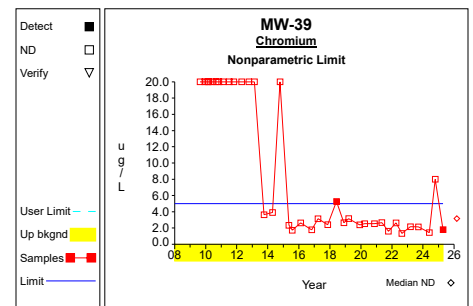
Graph 93



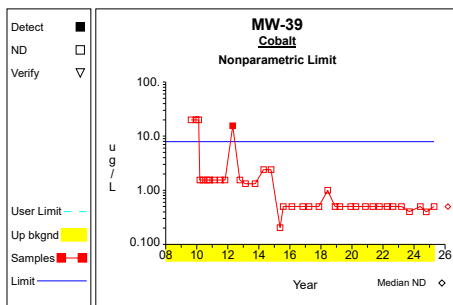
Graph 94



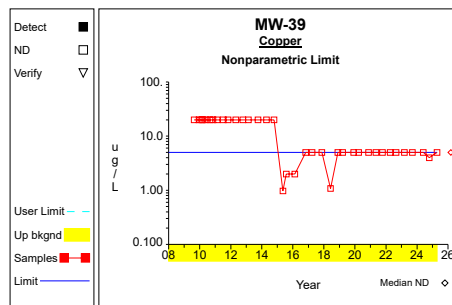
Graph 95



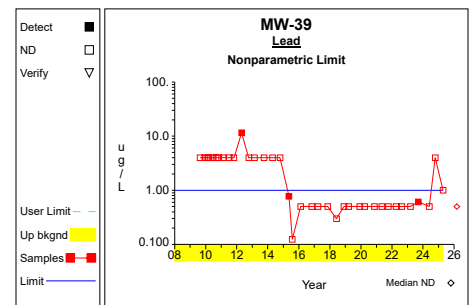
Graph 96



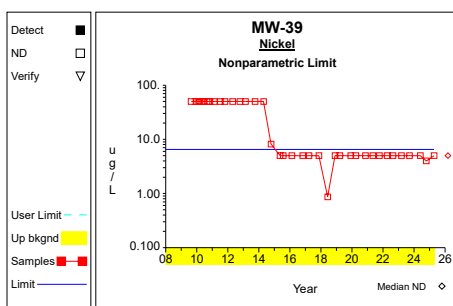
Graph 97



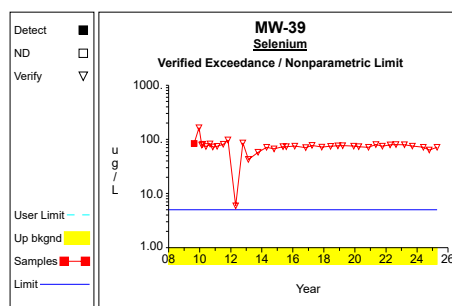
Graph 98



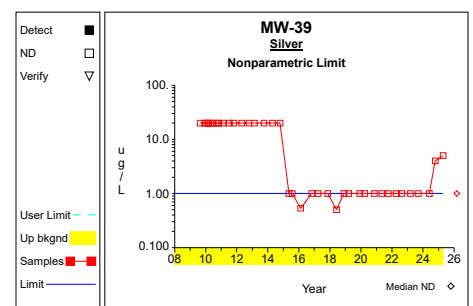
Graph 99



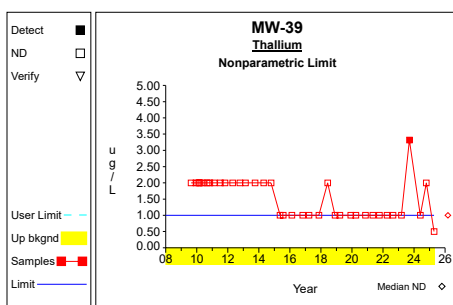
Graph 100



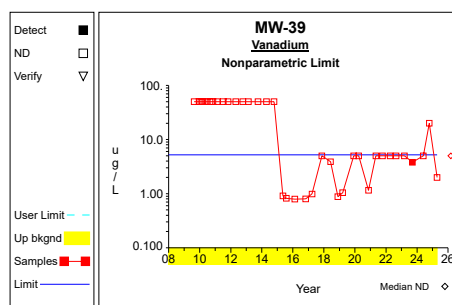
Graph 101



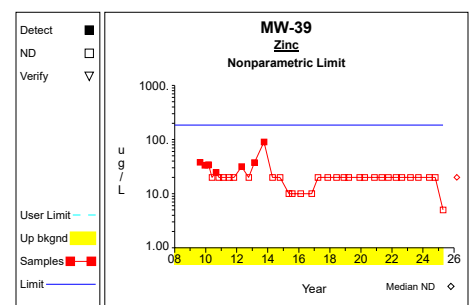
Graph 102



Graph 103

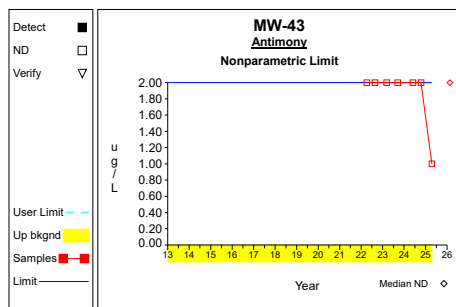


Graph 104

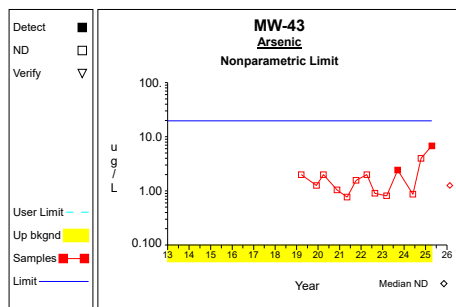


Graph 105

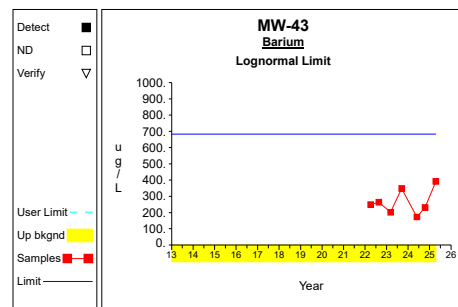
Up vs. Down Prediction Limits



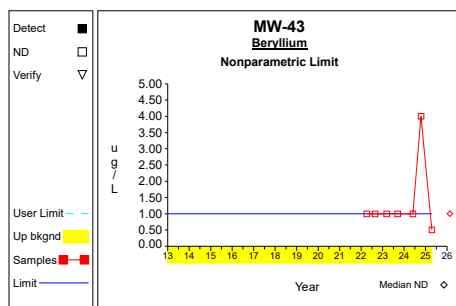
Graph 106



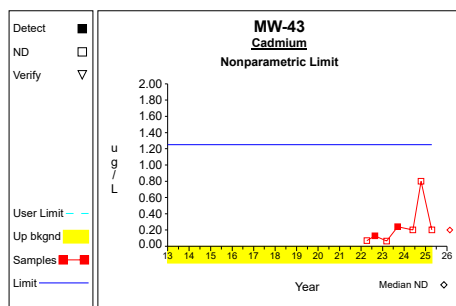
Graph 107



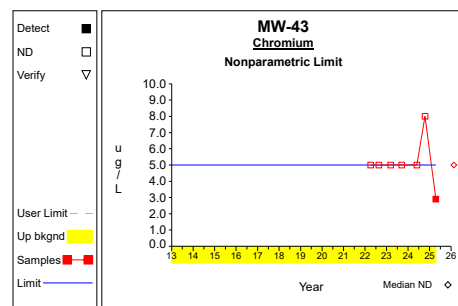
Graph 108



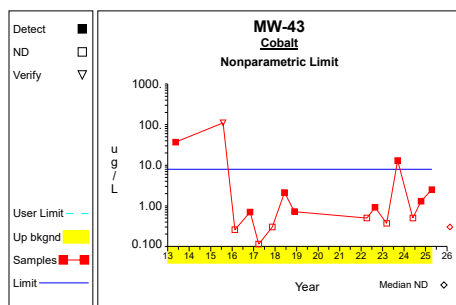
Graph 109



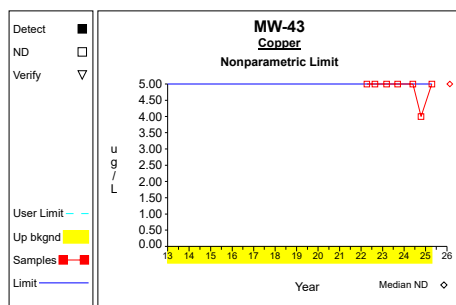
Graph 110



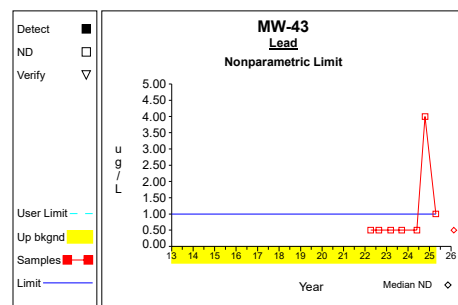
Graph 111



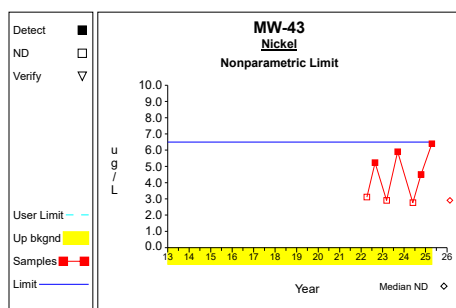
Graph 112



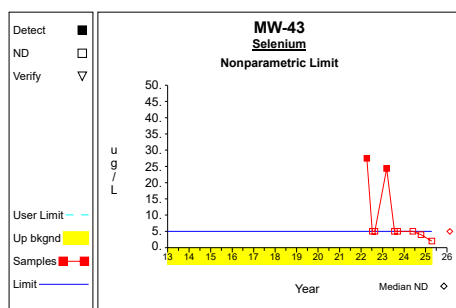
Graph 113



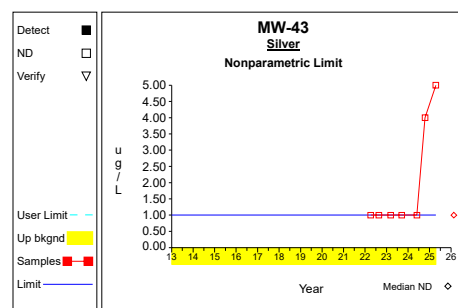
Graph 114



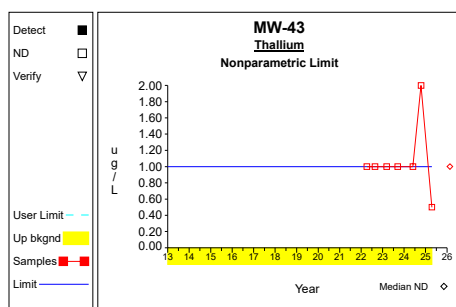
Graph 115



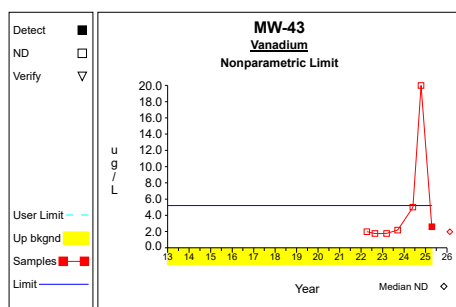
Graph 116



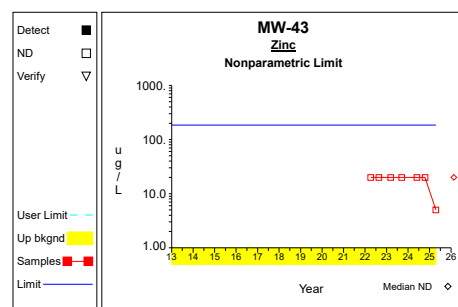
Graph 117



Graph 118

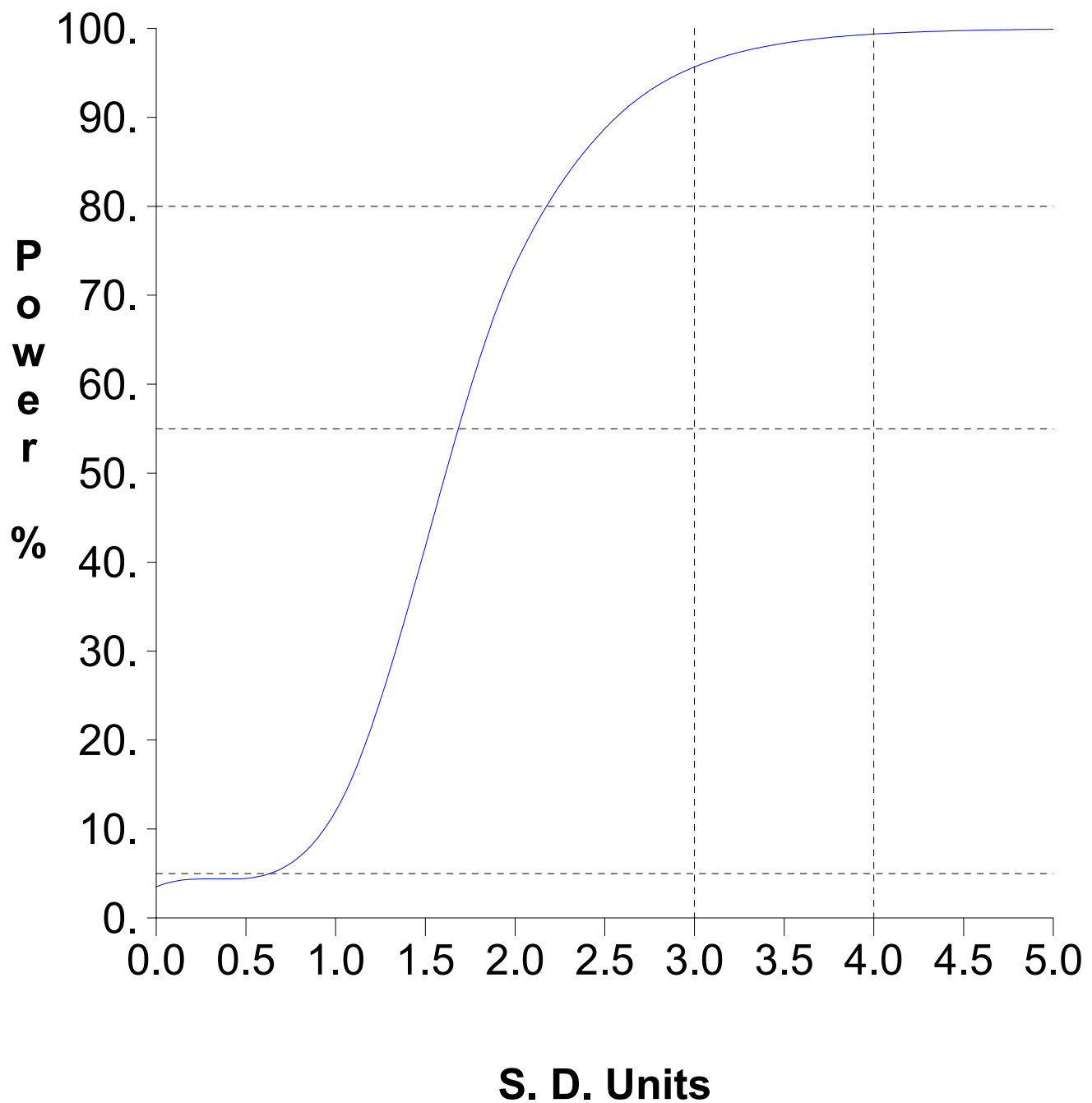


Graph 119



Graph 120

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



Attachment C

Summary Tables and Graphs for the Interwell Comparisons – Dakota

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony	ug/L	MW-22	02/11/2008	ND	6.0000		
Antimony	ug/L	MW-22	04/30/2008	ND	6.0000		
Antimony	ug/L	MW-22	07/09/2008	ND	6.0000		
Antimony	ug/L	MW-22	09/11/2008	ND	6.0000		
Antimony	ug/L	MW-22	12/10/2008	ND	6.0000		
Antimony	ug/L	MW-22	08/21/2009	ND	6.0000		
Antimony	ug/L	MW-22	03/11/2010	ND	6.0000		
Antimony	ug/L	MW-22	08/31/2010	ND	6.0000		
Antimony	ug/L	MW-22	02/16/2011	ND	6.0000		
Antimony	ug/L	MW-22	10/27/2011	ND	6.0000		
Antimony	ug/L	MW-22	04/26/2012	ND	6.0000		
Antimony	ug/L	MW-22	10/09/2012	ND	6.0000		
Antimony	ug/L	MW-22	02/20/2013	ND	6.0000		
Antimony	ug/L	MW-22	10/03/2013	ND	6.0000		
Antimony	ug/L	MW-22	04/22/2014	ND	6.0000		
Antimony	ug/L	MW-22	10/14/2014	ND	6.0000		
Antimony	ug/L	MW-22	05/12/2015	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	07/29/2015	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	03/28/2016		236.0000		*
Antimony	ug/L	MW-22	10/31/2016		2.1300		
Antimony	ug/L	MW-22	03/27/2017	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	11/13/2017		1.5400		
Antimony	ug/L	MW-22	06/06/2018		6.5100		
Antimony	ug/L	MW-22	11/26/2018	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	03/18/2019	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	12/02/2019	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	03/30/2020	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	11/17/2020	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	05/06/2021	ND	2.0000	6.0000	**
Antimony	ug/L	MW-22	10/07/2021	ND	2.0000	6.0000	**
Antimony	ug/L	MW-22	04/06/2022	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	08/23/2022		5.6500		
Antimony	ug/L	MW-22	03/08/2023	ND	2.0000	6.0000	**
Antimony	ug/L	MW-22	09/13/2023	ND	2.0000	6.0000	**
Antimony	ug/L	MW-22	05/29/2024		2.7900		
Antimony	ug/L	MW-22	10/15/2024		21.6000		*
Antimony	ug/L	MW-22	04/16/2025		5.6000		
Arsenic	ug/L	MW-22	02/11/2008	ND	1.0000		
Arsenic	ug/L	MW-22	04/30/2008	ND	1.0000		
Arsenic	ug/L	MW-22	07/09/2008	ND	1.0000		
Arsenic	ug/L	MW-22	09/11/2008	ND	1.0000		
Arsenic	ug/L	MW-22	12/10/2008	ND	1.0000		
Arsenic	ug/L	MW-22	08/21/2009	ND	1.0000		
Arsenic	ug/L	MW-22	03/11/2010	ND	1.0000		
Arsenic	ug/L	MW-22	08/31/2010	ND	1.0000		
Arsenic	ug/L	MW-22	02/16/2011	ND	1.0000		
Arsenic	ug/L	MW-22	10/27/2011	ND	1.0000		
Arsenic	ug/L	MW-22	04/26/2012	ND	4.0000		*
Arsenic	ug/L	MW-22	10/09/2012	ND	1.0000		
Arsenic	ug/L	MW-22	02/20/2013	ND	1.0000		
Arsenic	ug/L	MW-22	10/03/2013	ND	1.0000		
Arsenic	ug/L	MW-22	04/22/2014	ND	1.0000		
Arsenic	ug/L	MW-22	10/14/2014	ND	1.0000		
Arsenic	ug/L	MW-22	05/12/2015	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	07/29/2015	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	03/28/2016	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	10/31/2016	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	03/27/2017	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	11/13/2017	ND	1.0000		
Arsenic	ug/L	MW-22	06/06/2018		1.3500		
Arsenic	ug/L	MW-22	11/26/2018	ND	1.0000		
Arsenic	ug/L	MW-22	03/18/2019	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	12/02/2019	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	03/30/2020	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	11/17/2020	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	05/06/2021	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	10/07/2021	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	04/06/2022	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	08/23/2022	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	03/08/2023	ND	1.0000		
Arsenic	ug/L	MW-22	09/13/2023	ND	1.0000		
Arsenic	ug/L	MW-22	05/29/2024	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	10/15/2024	ND	4.0000		*
Arsenic	ug/L	MW-22	04/16/2025	ND	2.0000	1.0000	**

* - 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	
Barium	ug/L	MW-22	02/11/2008		248.0000		
Barium	ug/L	MW-22	04/30/2008		229.0000		
Barium	ug/L	MW-22	07/09/2008		231.0000		
Barium	ug/L	MW-22	09/11/2008		234.0000		
Barium	ug/L	MW-22	12/10/2008		242.0000		
Barium	ug/L	MW-22	08/21/2009		233.0000		
Barium	ug/L	MW-22	03/11/2010		221.0000		
Barium	ug/L	MW-22	08/31/2010		244.0000		
Barium	ug/L	MW-22	02/16/2011		252.0000		
Barium	ug/L	MW-22	10/27/2011		221.0000		
Barium	ug/L	MW-22	04/26/2012		275.0000		
Barium	ug/L	MW-22	10/09/2012		238.5000		
Barium	ug/L	MW-22	02/20/2013		247.0000		
Barium	ug/L	MW-22	10/03/2013		220.0000		
Barium	ug/L	MW-22	04/22/2014		244.0000		
Barium	ug/L	MW-22	10/14/2014		254.0000		
Barium	ug/L	MW-22	05/12/2015		244.0000		
Barium	ug/L	MW-22	07/29/2015		241.0000		
Barium	ug/L	MW-22	03/28/2016		250.0000		
Barium	ug/L	MW-22	10/31/2016		248.0000		
Barium	ug/L	MW-22	03/27/2017		273.0000		
Barium	ug/L	MW-22	11/13/2017		220.0000		
Barium	ug/L	MW-22	06/06/2018		262.0000		
Barium	ug/L	MW-22	11/26/2018		270.0000		
Barium	ug/L	MW-22	03/18/2019		266.0000		
Barium	ug/L	MW-22	12/02/2019		264.0000		
Barium	ug/L	MW-22	03/30/2020		249.0000		
Barium	ug/L	MW-22	11/17/2020		208.0000		
Barium	ug/L	MW-22	05/06/2021		304.0000		
Barium	ug/L	MW-22	10/07/2021		274.0000		
Barium	ug/L	MW-22	04/06/2022		241.0000		
Barium	ug/L	MW-22	08/23/2022		250.0000		
Barium	ug/L	MW-22	03/08/2023		251.0000		
Barium	ug/L	MW-22	09/13/2023		238.0000		
Barium	ug/L	MW-22	05/29/2024		241.0000		
Barium	ug/L	MW-22	10/15/2024		231.0000		
Barium	ug/L	MW-22	04/16/2025		283.0000		
Beryllium	ug/L	MW-22	02/11/2008	ND	1.0000		
Beryllium	ug/L	MW-22	04/30/2008	ND	0.0280		*
Beryllium	ug/L	MW-22	07/09/2008	ND	1.0000		
Beryllium	ug/L	MW-22	09/11/2008	ND	1.0000		
Beryllium	ug/L	MW-22	12/10/2008	ND	1.0000		
Beryllium	ug/L	MW-22	08/21/2009	ND	1.0000		
Beryllium	ug/L	MW-22	03/11/2010	ND	1.0000		
Beryllium	ug/L	MW-22	08/31/2010	ND	1.0000		
Beryllium	ug/L	MW-22	02/16/2011	ND	1.0000		
Beryllium	ug/L	MW-22	10/27/2011	ND	1.0000		
Beryllium	ug/L	MW-22	04/26/2012	ND	4.0000		*
Beryllium	ug/L	MW-22	10/09/2012	ND	1.0000		
Beryllium	ug/L	MW-22	02/20/2013	ND	1.0000		
Beryllium	ug/L	MW-22	10/03/2013	ND	1.0000		
Beryllium	ug/L	MW-22	04/22/2014	ND	1.0000		
Beryllium	ug/L	MW-22	10/14/2014	ND	1.0000		
Beryllium	ug/L	MW-22	05/12/2015	ND	1.0000		
Beryllium	ug/L	MW-22	07/29/2015	ND	1.0000		
Beryllium	ug/L	MW-22	03/28/2016	ND	1.0000		
Beryllium	ug/L	MW-22	10/31/2016	ND	1.0000		
Beryllium	ug/L	MW-22	03/27/2017	ND	1.0000		
Beryllium	ug/L	MW-22	11/13/2017	ND	1.0000		
Beryllium	ug/L	MW-22	06/06/2018	ND	1.0000		
Beryllium	ug/L	MW-22	11/26/2018	ND	1.0000		
Beryllium	ug/L	MW-22	03/18/2019	ND	1.0000		
Beryllium	ug/L	MW-22	12/02/2019	ND	1.0000		
Beryllium	ug/L	MW-22	03/30/2020	ND	1.0000		
Beryllium	ug/L	MW-22	11/17/2020	ND	1.0000		
Beryllium	ug/L	MW-22	05/06/2021	ND	1.0000		
Beryllium	ug/L	MW-22	10/07/2021	ND	1.0000		
Beryllium	ug/L	MW-22	04/06/2022	ND	1.0000		
Beryllium	ug/L	MW-22	08/23/2022	ND	1.0000		
Beryllium	ug/L	MW-22	03/08/2023	ND	1.0000		
Beryllium	ug/L	MW-22	09/13/2023	ND	1.0000		
Beryllium	ug/L	MW-22	05/29/2024	ND	1.0000		
Beryllium	ug/L	MW-22	10/15/2024	ND	4.0000		*
Beryllium	ug/L	MW-22	04/16/2025	ND	0.5000	1.0000	**

* - 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	
Cadmium	ug/L	MW-22	02/11/2008	ND	0.5000		
Cadmium	ug/L	MW-22	04/30/2008		0.1700		
Cadmium	ug/L	MW-22	07/09/2008	ND	0.5000		
Cadmium	ug/L	MW-22	09/11/2008		1.5800		
Cadmium	ug/L	MW-22	12/10/2008	ND	0.5000		
Cadmium	ug/L	MW-22	08/21/2009	ND	0.5000		
Cadmium	ug/L	MW-22	03/11/2010	ND	0.5000		
Cadmium	ug/L	MW-22	08/31/2010	ND	0.5000		
Cadmium	ug/L	MW-22	02/16/2011	ND	0.5000		
Cadmium	ug/L	MW-22	10/27/2011	ND	0.5000		
Cadmium	ug/L	MW-22	04/26/2012	ND	0.8000	0.5000	**
Cadmium	ug/L	MW-22	10/09/2012		0.5875		
Cadmium	ug/L	MW-22	02/20/2013		0.8750		
Cadmium	ug/L	MW-22	10/03/2013	ND	0.5000		
Cadmium	ug/L	MW-22	04/22/2014		0.5070		
Cadmium	ug/L	MW-22	10/14/2014	ND	1.0000	0.5000	**
Cadmium	ug/L	MW-22	05/12/2015	ND	0.5000		
Cadmium	ug/L	MW-22	07/29/2015	ND	1.0000	0.5000	**
Cadmium	ug/L	MW-22	03/28/2016	ND	1.0000	0.5000	**
Cadmium	ug/L	MW-22	10/31/2016	ND	0.5000		
Cadmium	ug/L	MW-22	03/27/2017	ND	0.5000		
Cadmium	ug/L	MW-22	11/13/2017	ND	0.5000		
Cadmium	ug/L	MW-22	06/06/2018	ND	0.5000		
Cadmium	ug/L	MW-22	11/26/2018	ND	0.5000		
Cadmium	ug/L	MW-22	03/18/2019	ND	0.5000		
Cadmium	ug/L	MW-22	12/02/2019	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	03/30/2020	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	11/17/2020		0.3070		
Cadmium	ug/L	MW-22	05/06/2021	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	10/07/2021	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	04/06/2022	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	08/23/2022	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	03/08/2023		0.1860		
Cadmium	ug/L	MW-22	09/13/2023	ND	0.2000	0.5000	**
Cadmium	ug/L	MW-22	05/29/2024	ND	0.2000	0.5000	**
Cadmium	ug/L	MW-22	10/15/2024	ND	0.8000	0.5000	**
Cadmium	ug/L	MW-22	04/16/2025		0.2000		
Chromium	ug/L	MW-22	02/11/2008	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	04/30/2008	ND	1.7300	5.0000	**
Chromium	ug/L	MW-22	07/09/2008	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	09/11/2008	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	12/10/2008	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	08/21/2009	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	03/11/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	08/31/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	02/16/2011	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	10/27/2011	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	04/26/2012	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	10/09/2012	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	02/20/2013	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	10/03/2013	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	04/22/2014	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	10/14/2014	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	05/12/2015	ND	5.0000		
Chromium	ug/L	MW-22	07/29/2015	ND	5.0000		
Chromium	ug/L	MW-22	03/28/2016	ND	1.0000	5.0000	**
Chromium	ug/L	MW-22	10/31/2016	ND	5.0000		
Chromium	ug/L	MW-22	03/27/2017	ND	5.0000		
Chromium	ug/L	MW-22	11/13/2017	ND	5.0000		
Chromium	ug/L	MW-22	06/06/2018	ND	4.0000	5.0000	**
Chromium	ug/L	MW-22	11/26/2018	ND	5.0000		
Chromium	ug/L	MW-22	03/18/2019	ND	5.0000		
Chromium	ug/L	MW-22	12/02/2019	ND	5.0000		
Chromium	ug/L	MW-22	03/30/2020	ND	5.0000		
Chromium	ug/L	MW-22	11/17/2020	ND	5.0000		
Chromium	ug/L	MW-22	05/06/2021	ND	5.0000		
Chromium	ug/L	MW-22	10/07/2021	ND	5.0000		
Chromium	ug/L	MW-22	04/06/2022	ND	5.0000		
Chromium	ug/L	MW-22	08/23/2022	ND	5.0000		
Chromium	ug/L	MW-22	03/08/2023	ND	5.0000		
Chromium	ug/L	MW-22	09/13/2023	ND	5.0000		
Chromium	ug/L	MW-22	05/29/2024	ND	5.0000		
Chromium	ug/L	MW-22	10/15/2024	ND	8.0000	5.0000	**
Chromium	ug/L	MW-22	04/16/2025		1.7000		

* - 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	
Cobalt	ug/L	MW-22	02/11/2008	ND	20.0000	1.0000	**
Cobalt	ug/L	MW-22	04/30/2008	ND	1.4000	1.0000	**
Cobalt	ug/L	MW-22	07/09/2008	ND	20.0000	1.0000	**
Cobalt	ug/L	MW-22	09/11/2008	ND	20.0000	1.0000	**
Cobalt	ug/L	MW-22	12/10/2008	ND	20.0000	1.0000	**
Cobalt	ug/L	MW-22	08/21/2009	ND	20.0000	1.0000	**
Cobalt	ug/L	MW-22	03/11/2010	ND	1.5500	1.0000	**
Cobalt	ug/L	MW-22	08/31/2010	ND	1.5500	1.0000	**
Cobalt	ug/L	MW-22	02/16/2011	ND	1.5500	1.0000	**
Cobalt	ug/L	MW-22	10/27/2011		1.7300		
Cobalt	ug/L	MW-22	04/26/2012	ND	1.0000		
Cobalt	ug/L	MW-22	10/09/2012	ND	1.5500	1.0000	**
Cobalt	ug/L	MW-22	02/20/2013	ND	1.3200	1.0000	**
Cobalt	ug/L	MW-22	10/03/2013	ND	1.3200	1.0000	**
Cobalt	ug/L	MW-22	04/22/2014	ND	2.4100	1.0000	**
Cobalt	ug/L	MW-22	10/14/2014	ND	2.4100	1.0000	**
Cobalt	ug/L	MW-22	05/12/2015	ND	1.0000		
Cobalt	ug/L	MW-22	07/29/2015	ND	1.0000		
Cobalt	ug/L	MW-22	03/28/2016	ND	1.0000		
Cobalt	ug/L	MW-22	10/31/2016	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	03/27/2017	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	11/13/2017	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	06/06/2018	ND	1.0000		
Cobalt	ug/L	MW-22	11/26/2018	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	03/18/2019	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	12/02/2019	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	03/30/2020	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	11/17/2020		1.3800		
Cobalt	ug/L	MW-22	05/06/2021	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	10/07/2021	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	04/06/2022	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	08/23/2022	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	03/08/2023	ND	0.1970	1.0000	**
Cobalt	ug/L	MW-22	09/13/2023	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	05/29/2024	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	10/15/2024	ND	0.4000	1.0000	**
Cobalt	ug/L	MW-22	04/16/2025	ND	0.5000	1.0000	**
Copper	ug/L	MW-22	02/11/2008	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	04/30/2008	ND	13.1000	5.0000	**
Copper	ug/L	MW-22	07/09/2008	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	09/11/2008	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	12/10/2008	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	08/21/2009	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	03/11/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	08/31/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	02/16/2011	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	10/27/2011	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	04/26/2012	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	10/09/2012	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	02/20/2013	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	10/03/2013	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	04/22/2014	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	10/14/2014	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	05/12/2015	ND	2.0000	5.0000	**
Copper	ug/L	MW-22	07/29/2015		16.4000		
Copper	ug/L	MW-22	03/28/2016	ND	5.0000		
Copper	ug/L	MW-22	10/31/2016	ND	5.0000		
Copper	ug/L	MW-22	03/27/2017	ND	5.0000		
Copper	ug/L	MW-22	11/13/2017	ND	5.0000		
Copper	ug/L	MW-22	06/06/2018	ND	2.0000	5.0000	**
Copper	ug/L	MW-22	11/26/2018	ND	5.0000		
Copper	ug/L	MW-22	03/18/2019	ND	5.0000		
Copper	ug/L	MW-22	12/02/2019	ND	5.0000		
Copper	ug/L	MW-22	03/30/2020	ND	5.0000		
Copper	ug/L	MW-22	11/17/2020	ND	5.0000		
Copper	ug/L	MW-22	05/06/2021	ND	5.0000		
Copper	ug/L	MW-22	10/07/2021	ND	5.0000		
Copper	ug/L	MW-22	04/06/2022	ND	5.0000		
Copper	ug/L	MW-22	08/23/2022	ND	5.0000		
Copper	ug/L	MW-22	03/08/2023	ND	5.0000		
Copper	ug/L	MW-22	09/13/2023	ND	5.0000		
Copper	ug/L	MW-22	05/29/2024	ND	5.0000		
Copper	ug/L	MW-22	10/15/2024	ND	4.0000	5.0000	**
Copper	ug/L	MW-22	04/16/2025	ND	5.0000		

* - 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	ug/L	MW-22	02/11/2008	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	04/30/2008	ND	0.3700	1.0000	**
Lead	ug/L	MW-22	07/09/2008	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	09/11/2008	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	12/10/2008	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	08/21/2009	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	03/11/2010	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	08/31/2010	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	02/16/2011	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	10/27/2011	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	04/26/2012	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	10/09/2012	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	02/20/2013	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	10/03/2013	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	04/22/2014	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	10/14/2014	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	05/12/2015	ND	1.0000		
Lead	ug/L	MW-22	07/29/2015	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	03/28/2016		0.7650		
Lead	ug/L	MW-22	10/31/2016	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	03/27/2017	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	11/13/2017	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	06/06/2018	ND	1.0000		
Lead	ug/L	MW-22	11/26/2018	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	03/18/2019	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	12/02/2019	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	03/30/2020	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	11/17/2020	ND	1.0000		
Lead	ug/L	MW-22	05/06/2021	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	10/07/2021	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	04/06/2022	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	08/23/2022		0.5280		
Lead	ug/L	MW-22	03/08/2023	ND	0.3690	1.0000	**
Lead	ug/L	MW-22	09/13/2023	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	05/29/2024	ND	0.3270	1.0000	**
Lead	ug/L	MW-22	10/15/2024	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	04/16/2025	ND	1.0000		
Nickel	ug/L	MW-22	02/11/2008	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	04/30/2008	ND	4.6000	5.0000	**
Nickel	ug/L	MW-22	07/09/2008	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	09/11/2008	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	12/10/2008	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	08/21/2009	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	03/11/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	08/31/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	02/16/2011	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	10/27/2011	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	04/26/2012	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	10/09/2012	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	02/20/2013	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	10/03/2013	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	04/22/2014	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	10/14/2014	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	05/12/2015	ND	5.0000		
Nickel	ug/L	MW-22	07/29/2015	ND	5.0000		
Nickel	ug/L	MW-22	03/28/2016	ND	5.0000		
Nickel	ug/L	MW-22	10/31/2016	ND	5.0000		
Nickel	ug/L	MW-22	03/27/2017	ND	5.0000		
Nickel	ug/L	MW-22	11/13/2017	ND	5.0000		
Nickel	ug/L	MW-22	06/06/2018	ND	1.0000	5.0000	**
Nickel	ug/L	MW-22	11/26/2018	ND	5.0000		
Nickel	ug/L	MW-22	03/18/2019	ND	5.0000		
Nickel	ug/L	MW-22	12/02/2019	ND	5.0000		
Nickel	ug/L	MW-22	03/30/2020	ND	5.0000		
Nickel	ug/L	MW-22	11/17/2020	ND	5.0000		
Nickel	ug/L	MW-22	05/06/2021	ND	5.0000		
Nickel	ug/L	MW-22	10/07/2021	ND	5.0000		
Nickel	ug/L	MW-22	04/06/2022	ND	5.0000		
Nickel	ug/L	MW-22	08/23/2022	ND	5.0000		
Nickel	ug/L	MW-22	03/08/2023	ND	5.0000		
Nickel	ug/L	MW-22	09/13/2023		10.7500		
Nickel	ug/L	MW-22	05/29/2024	ND	5.0000		
Nickel	ug/L	MW-22	10/15/2024	ND	4.0000	5.0000	**
Nickel	ug/L	MW-22	04/16/2025	ND	5.0000		

* - 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	ug/L	MW-22	02/11/2008	ND	5.0000		
Selenium	ug/L	MW-22	04/30/2008	ND	1.4400	5.0000	**
Selenium	ug/L	MW-22	07/09/2008	ND	5.0000		
Selenium	ug/L	MW-22	09/11/2008	ND	5.0000		
Selenium	ug/L	MW-22	12/10/2008	ND	5.0000		
Selenium	ug/L	MW-22	08/21/2009	ND	5.0000		
Selenium	ug/L	MW-22	03/11/2010	ND	5.0000		
Selenium	ug/L	MW-22	08/31/2010	ND	5.0000		
Selenium	ug/L	MW-22	02/16/2011	ND	5.0000		
Selenium	ug/L	MW-22	10/27/2011	ND	5.0000		
Selenium	ug/L	MW-22	04/26/2012	ND	5.0000		
Selenium	ug/L	MW-22	10/09/2012	ND	5.0000		
Selenium	ug/L	MW-22	02/20/2013	ND	5.0000		
Selenium	ug/L	MW-22	10/03/2013	ND	5.0000		
Selenium	ug/L	MW-22	04/22/2014	ND	5.0000		
Selenium	ug/L	MW-22	10/14/2014	ND	5.0000		
Selenium	ug/L	MW-22	05/12/2015	ND	5.0000		
Selenium	ug/L	MW-22	07/29/2015	ND	5.0000		
Selenium	ug/L	MW-22	03/28/2016	ND	2.0000	5.0000	**
Selenium	ug/L	MW-22	10/31/2016	ND	1.0000	5.0000	**
Selenium	ug/L	MW-22	03/27/2017	ND	2.0000	5.0000	**
Selenium	ug/L	MW-22	11/13/2017	ND	2.0000	5.0000	**
Selenium	ug/L	MW-22	06/06/2018	ND	2.5000	5.0000	**
Selenium	ug/L	MW-22	11/26/2018	ND	2.0000	5.0000	**
Selenium	ug/L	MW-22	03/18/2019	ND	2.0000	5.0000	**
Selenium	ug/L	MW-22	12/02/2019	ND	2.0000	5.0000	**
Selenium	ug/L	MW-22	03/30/2020	ND	2.0000	5.0000	**
Selenium	ug/L	MW-22	11/17/2020	ND	3.0000	5.0000	**
Selenium	ug/L	MW-22	05/06/2021	ND	1.0200	5.0000	**
Selenium	ug/L	MW-22	10/07/2021	ND	1.5200	5.0000	**
Selenium	ug/L	MW-22	04/06/2022	ND	1.6900	5.0000	**
Selenium	ug/L	MW-22	08/23/2022	ND	5.0000		
Selenium	ug/L	MW-22	03/08/2023	ND	2.0500	5.0000	**
Selenium	ug/L	MW-22	09/13/2023	ND	3.2450	5.0000	**
Selenium	ug/L	MW-22	05/29/2024	ND	5.0000		
Selenium	ug/L	MW-22	10/15/2024	ND	4.0000	5.0000	**
Selenium	ug/L	MW-22	04/16/2025	ND	2.0000	5.0000	**
Silver	ug/L	MW-22	02/11/2008	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	04/30/2008	ND	2.6100	1.0000	**
Silver	ug/L	MW-22	07/09/2008	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	09/11/2008	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	12/10/2008	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	08/21/2009	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	03/11/2010	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	08/31/2010	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	02/16/2011	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	10/27/2011	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	04/26/2012	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	10/09/2012	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	02/20/2013	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	10/03/2013	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	04/22/2014	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	10/14/2014	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	05/12/2015	ND	1.0000		
Silver	ug/L	MW-22	07/29/2015	ND	1.0000		
Silver	ug/L	MW-22	03/28/2016	ND	1.0000		
Silver	ug/L	MW-22	10/31/2016	ND	1.0000		
Silver	ug/L	MW-22	03/27/2017	ND	1.0000		
Silver	ug/L	MW-22	11/13/2017	ND	1.0000		
Silver	ug/L	MW-22	06/06/2018	ND	0.5000	1.0000	**
Silver	ug/L	MW-22	11/26/2018	ND	1.0000		
Silver	ug/L	MW-22	03/18/2019	ND	1.0000		
Silver	ug/L	MW-22	12/02/2019	ND	1.0000		
Silver	ug/L	MW-22	03/30/2020	ND	1.0000		
Silver	ug/L	MW-22	11/17/2020	ND	1.0000		
Silver	ug/L	MW-22	05/06/2021	ND	1.0000		
Silver	ug/L	MW-22	10/07/2021	ND	1.0000		
Silver	ug/L	MW-22	04/06/2022	ND	0.6510	1.0000	**
Silver	ug/L	MW-22	08/23/2022	ND	1.0000		
Silver	ug/L	MW-22	03/08/2023	ND	1.0000		
Silver	ug/L	MW-22	09/13/2023	ND	1.0000		
Silver	ug/L	MW-22	05/29/2024	ND	1.0000		
Silver	ug/L	MW-22	10/15/2024	ND	4.0000	1.0000	**
Silver	ug/L	MW-22	04/16/2025	ND	5.0000	1.0000	**

* - 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	ug/L	MW-22	02/11/2008	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	04/30/2008	ND	0.7000	1.0000	**
Thallium	ug/L	MW-22	07/09/2008	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	09/11/2008	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	12/10/2008	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	08/21/2009	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	03/11/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	08/31/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	02/16/2011	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	10/27/2011	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	04/26/2012	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	10/09/2012	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	02/20/2013	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	10/03/2013	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	04/22/2014	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	10/14/2014	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	05/12/2015	ND	1.0000		
Thallium	ug/L	MW-22	07/29/2015	ND	1.0000		
Thallium	ug/L	MW-22	03/28/2016	ND	1.0000		
Thallium	ug/L	MW-22	10/31/2016	ND	1.0000		
Thallium	ug/L	MW-22	03/27/2017	ND	1.0000		
Thallium	ug/L	MW-22	11/13/2017	ND	1.0000		
Thallium	ug/L	MW-22	06/06/2018	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	11/26/2018	ND	1.0000		
Thallium	ug/L	MW-22	03/18/2019	ND	1.0000		
Thallium	ug/L	MW-22	12/02/2019	ND	1.0000		
Thallium	ug/L	MW-22	03/30/2020	ND	1.0000		
Thallium	ug/L	MW-22	11/17/2020	ND	1.0000		
Thallium	ug/L	MW-22	05/06/2021	ND	1.0000		
Thallium	ug/L	MW-22	10/07/2021	ND	1.0000		
Thallium	ug/L	MW-22	04/06/2022	ND	1.0000		
Thallium	ug/L	MW-22	08/23/2022	ND	1.0000		
Thallium	ug/L	MW-22	03/08/2023	ND	0.7460	1.0000	**
Thallium	ug/L	MW-22	09/13/2023	ND	1.0000		
Thallium	ug/L	MW-22	05/29/2024	ND	1.0000		
Thallium	ug/L	MW-22	10/15/2024	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	04/16/2025	ND	0.5000	1.0000	**
Vanadium	ug/L	MW-22	02/11/2008	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	04/30/2008	ND	1.6000	3.0000	**
Vanadium	ug/L	MW-22	07/09/2008	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	09/11/2008	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	12/10/2008	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	08/21/2009	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	03/11/2010	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	08/31/2010	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	02/16/2011	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	10/27/2011	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	04/26/2012	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	10/09/2012	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	02/20/2013	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	10/03/2013	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	04/22/2014	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	10/14/2014	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	05/12/2015	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	07/29/2015	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	03/28/2016	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	10/31/2016	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	03/27/2017	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	11/13/2017	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	06/06/2018	ND	4.0000	3.0000	**
Vanadium	ug/L	MW-22	11/26/2018	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	03/18/2019	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	12/02/2019	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	03/30/2020	ND	5.0000	3.0000	**
Vanadium	ug/L	MW-22	11/17/2020	ND	3.0000		
Vanadium	ug/L	MW-22	05/06/2021	ND	1.5700	3.0000	**
Vanadium	ug/L	MW-22	10/07/2021	ND	1.1000	3.0000	**
Vanadium	ug/L	MW-22	04/06/2022	ND	1.1100	3.0000	**
Vanadium	ug/L	MW-22	08/23/2022	ND	2.0100	3.0000	**
Vanadium	ug/L	MW-22	03/08/2023	ND	1.3300	3.0000	**
Vanadium	ug/L	MW-22	09/13/2023	ND	1.3550	3.0000	**
Vanadium	ug/L	MW-22	05/29/2024	ND	1.4500	3.0000	**
Vanadium	ug/L	MW-22	10/15/2024	ND	20.0000	3.0000	**
Vanadium	ug/L	MW-22	04/16/2025	ND	2.0000	3.0000	**

* - 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	ug/L	MW-22	02/11/2008	ND	20.0000		
Zinc	ug/L	MW-22	04/30/2008	ND	5.2700		*
Zinc	ug/L	MW-22	07/09/2008		25.1000		
Zinc	ug/L	MW-22	09/11/2008	ND	20.0000		
Zinc	ug/L	MW-22	12/10/2008		21.3000		
Zinc	ug/L	MW-22	08/21/2009	ND	20.0000		
Zinc	ug/L	MW-22	03/11/2010	ND	20.0000		
Zinc	ug/L	MW-22	08/31/2010	ND	20.0000		
Zinc	ug/L	MW-22	02/16/2011	ND	20.0000		
Zinc	ug/L	MW-22	10/27/2011	ND	20.0000		
Zinc	ug/L	MW-22	04/26/2012		25.0000		
Zinc	ug/L	MW-22	10/09/2012	ND	20.0000		
Zinc	ug/L	MW-22	02/20/2013		24.2500		
Zinc	ug/L	MW-22	10/03/2013		34.1000		
Zinc	ug/L	MW-22	04/22/2014	ND	20.0000		
Zinc	ug/L	MW-22	10/14/2014	ND	20.0000		
Zinc	ug/L	MW-22	05/12/2015	ND	10.0000	20.0000	**
Zinc	ug/L	MW-22	07/29/2015		97.4000		*
Zinc	ug/L	MW-22	03/28/2016		13.2000		
Zinc	ug/L	MW-22	10/31/2016		12.5000		
Zinc	ug/L	MW-22	03/27/2017	ND	20.0000		
Zinc	ug/L	MW-22	11/13/2017	ND	20.0000		
Zinc	ug/L	MW-22	06/06/2018	ND	20.0000		
Zinc	ug/L	MW-22	11/26/2018	ND	20.0000		
Zinc	ug/L	MW-22	03/18/2019	ND	20.0000		
Zinc	ug/L	MW-22	12/02/2019	ND	20.0000		
Zinc	ug/L	MW-22	03/30/2020	ND	20.0000		
Zinc	ug/L	MW-22	11/17/2020	ND	20.0000		
Zinc	ug/L	MW-22	05/06/2021	ND	20.0000		
Zinc	ug/L	MW-22	10/07/2021	ND	20.0000		
Zinc	ug/L	MW-22	04/06/2022	ND	20.0000		
Zinc	ug/L	MW-22	08/23/2022	ND	20.0000		
Zinc	ug/L	MW-22	03/08/2023	ND	20.0000		
Zinc	ug/L	MW-22	09/13/2023	ND	20.0000		
Zinc	ug/L	MW-22	05/29/2024	ND	20.0000		
Zinc	ug/L	MW-22	10/15/2024	ND	20.0000		
Zinc	ug/L	MW-22	04/16/2025	ND	5.0000		*

* - 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	ug/L	MW-11	04/16/2025	ND	1.0000		6.5100
Arsenic	ug/L	MW-11	04/16/2025		17.7000	***	1.3500
Barium	ug/L	MW-11	04/16/2025		608.0000	***	295.8863
Beryllium	ug/L	MW-11	04/16/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-11	04/16/2025		1.6000	*	1.5800
Chromium	ug/L	MW-11	04/16/2025		4.5000		5.0000
Cobalt	ug/L	MW-11	04/16/2025		14.2000	***	1.7300
Copper	ug/L	MW-11	04/16/2025		104.0000	*	16.4000
Lead	ug/L	MW-11	04/16/2025		3.0000	*	1.0000
Nickel	ug/L	MW-11	04/16/2025		23.1000	*	10.7500
Selenium	ug/L	MW-11	04/16/2025	ND	2.0000		5.0000
Silver	ug/L	MW-11	04/16/2025	ND	5.0000		1.0000
Thallium	ug/L	MW-11	04/16/2025		0.6000		1.0000
Vanadium	ug/L	MW-11	04/16/2025		7.5000	*	3.0000
Zinc	ug/L	MW-11	04/16/2025		131.0000	*	34.1000
Antimony	ug/L	MW-13	04/16/2025	ND	1.0000		6.5100
Arsenic	ug/L	MW-13	04/16/2025	ND	2.0000		1.3500
Barium	ug/L	MW-13	04/16/2025		218.0000		295.8863
Beryllium	ug/L	MW-13	04/16/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-13	04/16/2025	ND	0.2000		1.5800
Chromium	ug/L	MW-13	04/16/2025		1.9000		5.0000
Cobalt	ug/L	MW-13	04/16/2025	ND	0.5000		1.7300
Copper	ug/L	MW-13	04/16/2025	ND	5.0000		16.4000
Lead	ug/L	MW-13	04/16/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-13	04/16/2025	ND	5.0000		10.7500
Selenium	ug/L	MW-13	04/16/2025	ND	2.0000		5.0000
Silver	ug/L	MW-13	04/16/2025	ND	5.0000		1.0000
Thallium	ug/L	MW-13	04/16/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-13	04/16/2025	ND	2.0000		3.0000
Zinc	ug/L	MW-13	04/16/2025	ND	5.0000		34.1000
Antimony	ug/L	MW-23	04/16/2025	ND	1.0000		6.5100
Arsenic	ug/L	MW-23	04/16/2025	ND	2.0000		1.3500
Barium	ug/L	MW-23	04/16/2025		39.1000		295.8863
Beryllium	ug/L	MW-23	04/16/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-23	04/16/2025	ND	0.2000		1.5800
Chromium	ug/L	MW-23	04/16/2025		1.8000		5.0000
Cobalt	ug/L	MW-23	04/16/2025	ND	0.5000		1.7300
Copper	ug/L	MW-23	04/16/2025	ND	5.0000		16.4000
Lead	ug/L	MW-23	04/16/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-23	04/16/2025	ND	5.0000		10.7500
Selenium	ug/L	MW-23	04/16/2025	ND	2.0000		5.0000
Silver	ug/L	MW-23	04/16/2025	ND	5.0000		1.0000
Thallium	ug/L	MW-23	04/16/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-23	04/16/2025	ND	2.0000		3.0000
Zinc	ug/L	MW-23	04/16/2025	ND	5.0000		34.1000
Antimony	ug/L	MW-36	04/16/2025	ND	1.0000		6.5100
Arsenic	ug/L	MW-36	04/16/2025	ND	2.0000		1.3500
Barium	ug/L	MW-36	04/16/2025		134.0000		295.8863
Beryllium	ug/L	MW-36	04/16/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-36	04/16/2025		1.0000		1.5800
Chromium	ug/L	MW-36	04/16/2025		1.3000		5.0000
Cobalt	ug/L	MW-36	04/16/2025		1.2000		1.7300
Copper	ug/L	MW-36	04/16/2025	ND	5.0000		16.4000
Lead	ug/L	MW-36	04/16/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-36	04/16/2025		6.2000		10.7500
Selenium	ug/L	MW-36	04/16/2025	ND	2.0000		5.0000
Silver	ug/L	MW-36	04/16/2025	ND	5.0000		1.0000
Thallium	ug/L	MW-36	04/16/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-36	04/16/2025	ND	2.0000		3.0000
Zinc	ug/L	MW-36	04/16/2025	ND	5.0000		34.1000

* - 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	6	35	0.171	3	116	0.026
Arsenic	1	35	0.029	59	116	0.509
Barium	37	37	1.000	116	116	1.000
Beryllium	0	34	0.000	21	116	0.181
Cadmium	8	37	0.216	63	116	0.543
Chromium	1	37	0.027	7	116	0.060
Cobalt	2	37	0.054	80	116	0.690
Copper	1	37	0.027	24	116	0.207
Lead	2	37	0.054	39	116	0.336
Nickel	1	37	0.027	53	117	0.453
Selenium	0	37	0.000	17	116	0.147
Silver	0	37	0.000	1	116	0.009
Thallium	0	37	0.000	6	116	0.052
Vanadium	0	37	0.000	19	116	0.164
Zinc	7	34	0.206	46	116	0.397

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	6	35	0.171	0.785	0.621					2.326	normal	nonpar
Arsenic	1	35	0.029									nonpar
Barium	37	37	1.000	0.102	0.857					2.326	normal	normal
Beryllium	0	34	0.000									nonpar
Cadmium	8	37	0.216	1.708	0.158					2.326	normal	nonpar
Chromium	1	37	0.027									nonpar
Cobalt	2	37	0.054									nonpar
Copper	1	37	0.027									nonpar
Lead	2	37	0.054									nonpar
Nickel	1	37	0.027									nonpar
Selenium	0	37	0.000									nonpar
Silver	0	37	0.000									nonpar
Thallium	0	37	0.000									nonpar
Vanadium	0	37	0.000									nonpar
Zinc	7	34	0.206	0.243	0.714					2.326	normal	nonpar

* - Distribution override for that constituent.

Fit to distribution is confirmed if $G \leq$ 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	ug/L	6	35					6.5100	nonpar		0.99
Arsenic	ug/L	1	35					1.3500	nonpar		0.99
Barium	ug/L	37	37	247.0676	19.7885	0.0100	2.4670	295.8863	normal		
Beryllium	ug/L	0	34					1.0000	nonpar	***	0.99
Cadmium	ug/L	8	37					1.5800	nonpar		0.99
Chromium	ug/L	1	37					5.0000	nonpar	***	0.99
Cobalt	ug/L	2	37					1.7300	nonpar		0.99
Copper	ug/L	1	37					16.4000	nonpar		0.99
Lead	ug/L	2	37					1.0000	nonpar	***	0.99
Nickel	ug/L	1	37					10.7500	nonpar		0.99
Selenium	ug/L	0	37					5.0000	nonpar	***	0.99
Silver	ug/L	0	37					1.0000	nonpar	***	0.99
Thallium	ug/L	0	37					1.0000	nonpar	***	0.99
Vanadium	ug/L	0	37					3.0000	nonpar	***	0.99
Zinc	ug/L	7	34					34.1000	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
Antimony	ug/L	MW-22	03/28/2016	236.0000		02/11/2008-04/16/2025	36	0.4273
Arsenic	ug/L	MW-22	04/26/2012	4.0000	< 4.0000	02/11/2008-04/16/2025	37	0.4273
Arsenic	ug/L	MW-22	10/15/2024	4.0000	< 4.0000	02/11/2008-04/16/2025	37	0.4273
Beryllium	ug/L	MW-22	04/30/2008	0.0280	< 0.0280	02/11/2008-04/16/2025	37	0.4232
Beryllium	ug/L	MW-22	04/26/2012	4.0000	< 4.0000	02/11/2008-04/16/2025	37	0.4273
Beryllium	ug/L	MW-22	10/15/2024	4.0000	< 4.0000	02/11/2008-04/16/2025	37	0.4273
Zinc	ug/L	MW-22	04/30/2008	5.2700	< 5.2700	02/11/2008-04/16/2025	37	0.4273
Zinc	ug/L	MW-22	07/29/2015	97.4000		02/11/2008-04/16/2025	37	0.4232
Zinc	ug/L	MW-22	04/16/2025	5.0000	< 5.0000	02/11/2008-04/16/2025	37	0.4273

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
Arsenic	ug/L	MW-11	02/11/2008		3.0100 *	1.3500
Arsenic	ug/L	MW-11	04/30/2008		5.4300 *	1.3500
Arsenic	ug/L	MW-11	07/09/2008		4.2200 *	1.3500
Arsenic	ug/L	MW-11	09/11/2008		2.1500 *	1.3500
Arsenic	ug/L	MW-11	12/10/2008		5.6000 *	1.3500
Arsenic	ug/L	MW-11	03/03/2009		3.8800 *	1.3500
Arsenic	ug/L	MW-11	08/21/2009		3.0000 *	1.3500
Arsenic	ug/L	MW-11	10/21/2009		3.9700 *	1.3500
Arsenic	ug/L	MW-11	03/11/2010		1.0900	1.3500
Arsenic	ug/L	MW-11	08/31/2010	ND	1.0000	1.3500
Arsenic	ug/L	MW-11	02/16/2011	ND	1.0000	1.3500
Arsenic	ug/L	MW-11	10/27/2011		3.8800 *	1.3500
Arsenic	ug/L	MW-11	04/26/2012		10.2000 *	1.3500
Arsenic	ug/L	MW-11	10/09/2012		3.5400 *	1.3500
Arsenic	ug/L	MW-11	02/20/2013		4.1200 *	1.3500
Arsenic	ug/L	MW-11	10/03/2013		17.2500 *	1.3500
Arsenic	ug/L	MW-11	04/22/2014		7.1300 *	1.3500
Arsenic	ug/L	MW-11	10/14/2014		4.5600 *	1.3500
Arsenic	ug/L	MW-11	05/12/2015		5.2500 *	1.3500
Arsenic	ug/L	MW-11	07/29/2015		3.3800 *	1.3500
Arsenic	ug/L	MW-11	02/15/2016		3.0200 *	1.3500
Arsenic	ug/L	MW-11	10/31/2016		3.1400 *	1.3500
Arsenic	ug/L	MW-11	03/27/2017		3.6950 *	1.3500
Arsenic	ug/L	MW-11	11/13/2017		2.8200 *	1.3500
Arsenic	ug/L	MW-11	06/06/2018		3.0700 *	1.3500
Arsenic	ug/L	MW-11	11/26/2018		3.7400 *	1.3500
Arsenic	ug/L	MW-11	03/18/2019		2.5100 *	1.3500
Arsenic	ug/L	MW-11	12/02/2019		2.1900 *	1.3500
Arsenic	ug/L	MW-11	03/30/2020		2.1300 *	1.3500
Arsenic	ug/L	MW-11	11/17/2020		3.9100 *	1.3500
Arsenic	ug/L	MW-11	05/06/2021		2.8300 *	1.3500
Arsenic	ug/L	MW-11	10/07/2021		11.0000 *	1.3500
Arsenic	ug/L	MW-11	04/06/2022		7.5300 *	1.3500
Arsenic	ug/L	MW-11	08/23/2022		2.3000 *	1.3500
Arsenic	ug/L	MW-11	03/08/2023		13.5000 *	1.3500
Arsenic	ug/L	MW-11	09/13/2023		14.5000 *	1.3500
Arsenic	ug/L	MW-11	05/29/2024		5.1700 *	1.3500
Arsenic	ug/L	MW-11	10/15/2024		6.6000 *	1.3500
Arsenic	ug/L	MW-11	04/16/2025		17.7000 *	1.3500
Barium	ug/L	MW-11	02/11/2008		786.0000 *	295.8863
Barium	ug/L	MW-11	04/30/2008		963.0000 *	295.8863
Barium	ug/L	MW-11	07/09/2008		915.0000 *	295.8863
Barium	ug/L	MW-11	09/11/2008		606.0000 *	295.8863
Barium	ug/L	MW-11	12/10/2008		754.0000 *	295.8863
Barium	ug/L	MW-11	03/03/2009		1480.0000 *	295.8863
Barium	ug/L	MW-11	08/21/2009		471.0000 *	295.8863
Barium	ug/L	MW-11	10/21/2009		714.0000 *	295.8863
Barium	ug/L	MW-11	03/11/2010		347.0000 *	295.8863
Barium	ug/L	MW-11	08/31/2010		148.0000	295.8863
Barium	ug/L	MW-11	02/16/2011		332.0000 *	295.8863
Barium	ug/L	MW-11	10/27/2011		351.0000 *	295.8863
Barium	ug/L	MW-11	04/26/2012		423.0000 *	295.8863
Barium	ug/L	MW-11	10/09/2012		330.0000 *	295.8863
Barium	ug/L	MW-11	02/20/2013		468.0000 *	295.8863
Barium	ug/L	MW-11	10/03/2013		534.5000 *	295.8863
Barium	ug/L	MW-11	04/22/2014		605.0000 *	295.8863
Barium	ug/L	MW-11	10/14/2014		561.0000 *	295.8863
Barium	ug/L	MW-11	05/12/2015		582.0000 *	295.8863
Barium	ug/L	MW-11	07/29/2015		529.0000 *	295.8863
Barium	ug/L	MW-11	02/15/2016		510.0000 *	295.8863
Barium	ug/L	MW-11	10/31/2016		514.0000 *	295.8863
Barium	ug/L	MW-11	03/27/2017		529.0000 *	295.8863
Barium	ug/L	MW-11	11/13/2017		448.0000 *	295.8863
Barium	ug/L	MW-11	06/06/2018		434.0000 *	295.8863
Barium	ug/L	MW-11	11/26/2018		462.0000 *	295.8863
Barium	ug/L	MW-11	03/18/2019		456.0000 *	295.8863
Barium	ug/L	MW-11	12/02/2019		410.0000 *	295.8863
Barium	ug/L	MW-11	03/30/2020		416.0000 *	295.8863
Barium	ug/L	MW-11	11/17/2020		397.0000 *	295.8863
Barium	ug/L	MW-11	05/06/2021		465.0000 *	295.8863
Barium	ug/L	MW-11	10/07/2021		571.0000 *	295.8863

* - 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	ug/L	MW-11	04/06/2022		543.5000	*	295.8863
Barium	ug/L	MW-11	08/23/2022		419.0000	*	295.8863
Barium	ug/L	MW-11	03/08/2023		745.0000	*	295.8863
Barium	ug/L	MW-11	09/13/2023		636.0000	*	295.8863
Barium	ug/L	MW-11	05/29/2024		496.0000	*	295.8863
Barium	ug/L	MW-11	10/15/2024		346.0000	*	295.8863
Barium	ug/L	MW-11	04/16/2025		608.0000	*	295.8863
Cadmium	ug/L	MW-11	02/11/2008		0.6730		1.5800
Cadmium	ug/L	MW-11	04/30/2008		2.6300	*	1.5800
Cadmium	ug/L	MW-11	07/09/2008		1.3500		1.5800
Cadmium	ug/L	MW-11	09/11/2008		7.8000	*	1.5800
Cadmium	ug/L	MW-11	12/10/2008		2.9400	*	1.5800
Cadmium	ug/L	MW-11	03/03/2009		1.1200		1.5800
Cadmium	ug/L	MW-11	08/21/2009		1.0300		1.5800
Cadmium	ug/L	MW-11	10/21/2009		1.1200		1.5800
Cadmium	ug/L	MW-11	03/11/2010		7.0600	*	1.5800
Cadmium	ug/L	MW-11	08/31/2010		3.3500	*	1.5800
Cadmium	ug/L	MW-11	02/16/2011		3.4700	*	1.5800
Cadmium	ug/L	MW-11	10/27/2011		1.9700	*	1.5800
Cadmium	ug/L	MW-11	04/26/2012	ND	0.8000		1.5800
Cadmium	ug/L	MW-11	10/09/2012		1.1100		1.5800
Cadmium	ug/L	MW-11	02/20/2013		0.8280		1.5800
Cadmium	ug/L	MW-11	10/03/2013		1.5250		1.5800
Cadmium	ug/L	MW-11	04/22/2014		0.9690		1.5800
Cadmium	ug/L	MW-11	10/14/2014		0.9730		1.5800
Cadmium	ug/L	MW-11	05/12/2015		0.9840		1.5800
Cadmium	ug/L	MW-11	07/29/2015	ND	1.0000		1.5800
Cadmium	ug/L	MW-11	02/15/2016	ND	0.5000		1.5800
Cadmium	ug/L	MW-11	10/31/2016	ND	1.0000		1.5800
Cadmium	ug/L	MW-11	03/27/2017	ND	0.5000		1.5800
Cadmium	ug/L	MW-11	11/13/2017	ND	0.5000		1.5800
Cadmium	ug/L	MW-11	06/06/2018		0.6070		1.5800
Cadmium	ug/L	MW-11	11/26/2018	ND	1.0000		1.5800
Cadmium	ug/L	MW-11	03/18/2019	ND	1.0000		1.5800
Cadmium	ug/L	MW-11	12/02/2019	ND	0.1000		1.5800
Cadmium	ug/L	MW-11	03/30/2020	ND	1.0000		1.5800
Cadmium	ug/L	MW-11	11/17/2020	ND	1.0000		1.5800
Cadmium	ug/L	MW-11	05/06/2021	ND	0.1000		1.5800
Cadmium	ug/L	MW-11	10/07/2021	ND	0.1000		1.5800
Cadmium	ug/L	MW-11	04/06/2022	ND	0.1000		1.5800
Cadmium	ug/L	MW-11	08/23/2022		0.1160		1.5800
Cadmium	ug/L	MW-11	03/08/2023		0.2590		1.5800
Cadmium	ug/L	MW-11	09/13/2023		0.2130		1.5800
Cadmium	ug/L	MW-11	05/29/2024	ND	0.2000		1.5800
Cadmium	ug/L	MW-11	10/15/2024	ND	0.8000		1.5800
Cadmium	ug/L	MW-11	04/16/2025		1.6000	*	1.5800
Cobalt	ug/L	MW-11	02/11/2008	ND	20.0000		1.7300
Cobalt	ug/L	MW-11	04/30/2008	ND	1.4000		1.7300
Cobalt	ug/L	MW-11	07/09/2008		20.4000	*	1.7300
Cobalt	ug/L	MW-11	09/11/2008	ND	20.0000		1.7300
Cobalt	ug/L	MW-11	12/10/2008	ND	20.0000		1.7300
Cobalt	ug/L	MW-11	03/03/2009		36.1000	*	1.7300
Cobalt	ug/L	MW-11	08/21/2009	ND	20.0000		1.7300
Cobalt	ug/L	MW-11	10/21/2009	ND	20.0000		1.7300
Cobalt	ug/L	MW-11	03/11/2010		17.2000	*	1.7300
Cobalt	ug/L	MW-11	08/31/2010		5.0700	*	1.7300
Cobalt	ug/L	MW-11	02/16/2011		25.3000	*	1.7300
Cobalt	ug/L	MW-11	10/27/2011		47.8000	*	1.7300
Cobalt	ug/L	MW-11	04/26/2012		42.4000	*	1.7300
Cobalt	ug/L	MW-11	10/09/2012		31.5000	*	1.7300
Cobalt	ug/L	MW-11	02/20/2013		67.4000	*	1.7300
Cobalt	ug/L	MW-11	10/03/2013		60.8500	*	1.7300
Cobalt	ug/L	MW-11	04/22/2014		71.1000	*	1.7300
Cobalt	ug/L	MW-11	10/14/2014		44.1000	*	1.7300
Cobalt	ug/L	MW-11	05/12/2015		54.5000	*	1.7300
Cobalt	ug/L	MW-11	07/29/2015		20.9000	*	1.7300
Cobalt	ug/L	MW-11	02/15/2016		17.6000	*	1.7300
Cobalt	ug/L	MW-11	10/31/2016		8.3700	*	1.7300
Cobalt	ug/L	MW-11	03/27/2017		8.7150	*	1.7300
Cobalt	ug/L	MW-11	11/13/2017		5.6400	*	1.7300
Cobalt	ug/L	MW-11	06/06/2018		5.5100	*	1.7300

* - 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
Cobalt	ug/L	MW-11	11/26/2018		4.5800	*	1.7300
Cobalt	ug/L	MW-11	03/18/2019		4.1000	*	1.7300
Cobalt	ug/L	MW-11	12/02/2019		3.5400	*	1.7300
Cobalt	ug/L	MW-11	03/30/2020		3.2900	*	1.7300
Cobalt	ug/L	MW-11	11/17/2020		9.9250	*	1.7300
Cobalt	ug/L	MW-11	05/06/2021		9.3200	*	1.7300
Cobalt	ug/L	MW-11	10/07/2021		14.8000	*	1.7300
Cobalt	ug/L	MW-11	04/06/2022		10.7000	*	1.7300
Cobalt	ug/L	MW-11	08/23/2022		6.1900	*	1.7300
Cobalt	ug/L	MW-11	03/08/2023		13.4000	*	1.7300
Cobalt	ug/L	MW-11	09/13/2023		11.3000	*	1.7300
Cobalt	ug/L	MW-11	05/29/2024		6.6300	*	1.7300
Cobalt	ug/L	MW-11	10/15/2024		3.0000	*	1.7300
Cobalt	ug/L	MW-11	04/16/2025		14.2000	*	1.7300
Copper	ug/L	MW-11	02/11/2008	ND	20.0000		16.4000
Copper	ug/L	MW-11	04/30/2008		20.1000	*	16.4000
Copper	ug/L	MW-11	07/09/2008		28.3000	*	16.4000
Copper	ug/L	MW-11	09/11/2008	ND	20.0000		16.4000
Copper	ug/L	MW-11	12/10/2008	ND	20.0000		16.4000
Copper	ug/L	MW-11	03/03/2009		20.8000	*	16.4000
Copper	ug/L	MW-11	08/21/2009	ND	20.0000		16.4000
Copper	ug/L	MW-11	10/21/2009	ND	20.0000		16.4000
Copper	ug/L	MW-11	03/11/2010	ND	20.0000		16.4000
Copper	ug/L	MW-11	08/31/2010	ND	20.0000		16.4000
Copper	ug/L	MW-11	02/16/2011	ND	20.0000		16.4000
Copper	ug/L	MW-11	10/27/2011	ND	20.0000		16.4000
Copper	ug/L	MW-11	04/26/2012	ND	20.0000		16.4000
Copper	ug/L	MW-11	10/09/2012	ND	20.0000		16.4000
Copper	ug/L	MW-11	02/20/2013	ND	20.0000		16.4000
Copper	ug/L	MW-11	10/03/2013	ND	20.0000		16.4000
Copper	ug/L	MW-11	04/22/2014	ND	20.0000		16.4000
Copper	ug/L	MW-11	10/14/2014	ND	20.0000		16.4000
Copper	ug/L	MW-11	05/12/2015		2.6200		16.4000
Copper	ug/L	MW-11	07/29/2015	ND	2.0000		16.4000
Copper	ug/L	MW-11	02/15/2016	ND	2.0000		16.4000
Copper	ug/L	MW-11	10/31/2016	ND	5.0000		16.4000
Copper	ug/L	MW-11	03/27/2017	ND	5.0000		16.4000
Copper	ug/L	MW-11	11/13/2017	ND	5.0000		16.4000
Copper	ug/L	MW-11	06/06/2018	ND	2.0000		16.4000
Copper	ug/L	MW-11	11/26/2018	ND	5.0000		16.4000
Copper	ug/L	MW-11	03/18/2019	ND	5.0000		16.4000
Copper	ug/L	MW-11	12/02/2019	ND	5.0000		16.4000
Copper	ug/L	MW-11	03/30/2020	ND	5.0000		16.4000
Copper	ug/L	MW-11	11/17/2020	ND	5.0000		16.4000
Copper	ug/L	MW-11	05/06/2021	ND	5.0000		16.4000
Copper	ug/L	MW-11	10/07/2021	ND	5.0000		16.4000
Copper	ug/L	MW-11	04/06/2022	ND	5.0000		16.4000
Copper	ug/L	MW-11	08/23/2022	ND	2.0100		16.4000
Copper	ug/L	MW-11	03/08/2023	ND	5.0000		16.4000
Copper	ug/L	MW-11	09/13/2023	ND	1.8100		16.4000
Copper	ug/L	MW-11	05/29/2024	ND	2.5300		16.4000
Copper	ug/L	MW-11	10/15/2024		9.7000		16.4000
Copper	ug/L	MW-11	04/16/2025		104.0000	*	16.4000
Lead	ug/L	MW-11	02/11/2008	ND	4.0000		1.0000
Lead	ug/L	MW-11	04/30/2008		7.4200	*	1.0000
Lead	ug/L	MW-11	07/09/2008		4.7200	*	1.0000
Lead	ug/L	MW-11	09/11/2008	ND	4.0000		1.0000
Lead	ug/L	MW-11	12/10/2008	ND	4.0000		1.0000
Lead	ug/L	MW-11	03/03/2009		5.1400	*	1.0000
Lead	ug/L	MW-11	08/21/2009	ND	4.0000		1.0000
Lead	ug/L	MW-11	10/21/2009	ND	4.0000		1.0000
Lead	ug/L	MW-11	03/11/2010		4.6400	*	1.0000
Lead	ug/L	MW-11	08/31/2010	ND	4.0000		1.0000
Lead	ug/L	MW-11	02/16/2011	ND	4.0000		1.0000
Lead	ug/L	MW-11	10/27/2011		4.6800	*	1.0000
Lead	ug/L	MW-11	04/26/2012	ND	4.0000		1.0000
Lead	ug/L	MW-11	10/09/2012	ND	4.0000		1.0000
Lead	ug/L	MW-11	02/20/2013	ND	4.0000		1.0000
Lead	ug/L	MW-11	10/03/2013	ND	3.0000		1.0000
Lead	ug/L	MW-11	04/22/2014	ND	2.0000		1.0000
Lead	ug/L	MW-11	10/14/2014	ND	4.0000		1.0000

* - 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
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Constituent	Units	Well	Date		Result	Pred. Limit
Lead	ug/L	MW-11	05/12/2015		0.8320	1.0000
Lead	ug/L	MW-11	07/29/2015	ND	1.0000	1.0000
Lead	ug/L	MW-11	02/15/2016	ND	0.5000	1.0000
Lead	ug/L	MW-11	10/31/2016	ND	0.5000	1.0000
Lead	ug/L	MW-11	03/27/2017	ND	0.5000	1.0000
Lead	ug/L	MW-11	11/13/2017	ND	0.5000	1.0000
Lead	ug/L	MW-11	06/06/2018	ND	1.0000	1.0000
Lead	ug/L	MW-11	11/26/2018	ND	1.0000	1.0000
Lead	ug/L	MW-11	03/18/2019	ND	0.5000	1.0000
Lead	ug/L	MW-11	12/02/2019	ND	0.5000	1.0000
Lead	ug/L	MW-11	03/30/2020	ND	0.5000	1.0000
Lead	ug/L	MW-11	11/17/2020	ND	0.5000	1.0000
Lead	ug/L	MW-11	05/06/2021	ND	0.5000	1.0000
Lead	ug/L	MW-11	10/07/2021	ND	0.5000	1.0000
Lead	ug/L	MW-11	04/06/2022	ND	0.5000	1.0000
Lead	ug/L	MW-11	08/23/2022	ND	0.5000	1.0000
Lead	ug/L	MW-11	03/08/2023		0.5340	1.0000
Lead	ug/L	MW-11	09/13/2023		0.5890	1.0000
Lead	ug/L	MW-11	05/29/2024	ND	0.5000	1.0000
Lead	ug/L	MW-11	10/15/2024	ND	4.0000	1.0000
Lead	ug/L	MW-11	04/16/2025		3.0000 *	1.0000
Nickel	ug/L	MW-11	02/11/2008	ND	50.0000	10.7500
Nickel	ug/L	MW-11	04/30/2008	ND	4.6000	10.7500
Nickel	ug/L	MW-11	07/09/2008	ND	50.0000	10.7500
Nickel	ug/L	MW-11	09/11/2008	ND	50.0000	10.7500
Nickel	ug/L	MW-11	12/10/2008	ND	50.0000	10.7500
Nickel	ug/L	MW-11	03/03/2009		82.2000 *	10.7500
Nickel	ug/L	MW-11	08/21/2009	ND	50.0000	10.7500
Nickel	ug/L	MW-11	10/21/2009	ND	50.0000	10.7500
Nickel	ug/L	MW-11	03/11/2010	ND	50.0000	10.7500
Nickel	ug/L	MW-11	08/31/2010	ND	50.0000	10.7500
Nickel	ug/L	MW-11	02/16/2011	ND	50.0000	10.7500
Nickel	ug/L	MW-11	10/27/2011	ND	50.0000	10.7500
Nickel	ug/L	MW-11	04/26/2012		62.4000 *	10.7500
Nickel	ug/L	MW-11	10/09/2012	ND	50.0000	10.7500
Nickel	ug/L	MW-11	02/20/2013		60.2000 *	10.7500
Nickel	ug/L	MW-11	05/15/2013		54.6000 *	10.7500
Nickel	ug/L	MW-11	10/03/2013		65.8500 *	10.7500
Nickel	ug/L	MW-11	04/22/2014		68.8000 *	10.7500
Nickel	ug/L	MW-11	10/14/2014		54.0000 *	10.7500
Nickel	ug/L	MW-11	05/12/2015		42.3000 *	10.7500
Nickel	ug/L	MW-11	07/29/2015		24.2000 *	10.7500
Nickel	ug/L	MW-11	02/15/2016		20.1000 *	10.7500
Nickel	ug/L	MW-11	10/31/2016		11.0000 *	10.7500
Nickel	ug/L	MW-11	03/27/2017		11.8000 *	10.7500
Nickel	ug/L	MW-11	11/13/2017		6.8200	10.7500
Nickel	ug/L	MW-11	06/06/2018		8.7400	10.7500
Nickel	ug/L	MW-11	11/26/2018		7.3500	10.7500
Nickel	ug/L	MW-11	03/18/2019		5.5700	10.7500
Nickel	ug/L	MW-11	12/02/2019		5.3700	10.7500
Nickel	ug/L	MW-11	03/30/2020	ND	4.0000	10.7500
Nickel	ug/L	MW-11	11/17/2020		8.1750	10.7500
Nickel	ug/L	MW-11	05/06/2021		8.8300	10.7500
Nickel	ug/L	MW-11	10/07/2021		16.4000 *	10.7500
Nickel	ug/L	MW-11	04/06/2022		14.6500 *	10.7500
Nickel	ug/L	MW-11	08/23/2022		7.4400	10.7500
Nickel	ug/L	MW-11	03/08/2023		18.8000 *	10.7500
Nickel	ug/L	MW-11	09/13/2023		14.2000 *	10.7500
Nickel	ug/L	MW-11	05/29/2024		5.6300	10.7500
Nickel	ug/L	MW-11	10/15/2024		5.4000	10.7500
Nickel	ug/L	MW-11	04/16/2025		23.1000 *	10.7500
Vanadium	ug/L	MW-11	02/11/2008	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	04/30/2008	ND	1.6000	3.0000
Vanadium	ug/L	MW-11	07/09/2008	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	09/11/2008	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	12/10/2008	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	03/03/2009	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	08/21/2009	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	10/21/2009	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	03/11/2010	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	08/31/2010	ND	50.0000	3.0000

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Constituent	Units	Well	Date		Result	Pred. Limit
Vanadium	ug/L	MW-11	02/16/2011	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	10/27/2011	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	04/26/2012	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	10/09/2012	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	02/20/2013	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	10/03/2013	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	04/22/2014	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	10/14/2014	ND	50.0000	3.0000
Vanadium	ug/L	MW-11	05/12/2015	ND	1.0000	3.0000
Vanadium	ug/L	MW-11	07/29/2015	ND	1.0000	3.0000
Vanadium	ug/L	MW-11	02/15/2016	ND	5.0000	3.0000
Vanadium	ug/L	MW-11	10/31/2016	ND	1.0000	3.0000
Vanadium	ug/L	MW-11	03/27/2017	ND	5.0000	3.0000
Vanadium	ug/L	MW-11	11/13/2017	ND	5.0000	3.0000
Vanadium	ug/L	MW-11	06/06/2018	ND	3.0000	3.0000
Vanadium	ug/L	MW-11	11/26/2018	ND	1.0000	3.0000
Vanadium	ug/L	MW-11	03/18/2019	ND	5.0000	3.0000
Vanadium	ug/L	MW-11	12/02/2019	ND	5.0000	3.0000
Vanadium	ug/L	MW-11	03/30/2020	ND	5.0000	3.0000
Vanadium	ug/L	MW-11	11/17/2020	ND	5.0000	3.0000
Vanadium	ug/L	MW-11	05/06/2021	ND	5.0000	3.0000
Vanadium	ug/L	MW-11	10/07/2021	ND	5.0000	3.0000
Vanadium	ug/L	MW-11	04/06/2022	ND	5.0000	3.0000
Vanadium	ug/L	MW-11	08/23/2022	ND	5.0000	3.0000
Vanadium	ug/L	MW-11	03/08/2023	ND	5.0000	3.0000
Vanadium	ug/L	MW-11	09/13/2023	ND	5.0000	3.0000
Vanadium	ug/L	MW-11	05/29/2024	ND	5.0000	3.0000
Vanadium	ug/L	MW-11	10/15/2024	ND	20.0000	3.0000
Vanadium	ug/L	MW-11	04/16/2025		7.5000	3.0000
Zinc	ug/L	MW-11	02/11/2008	ND	20.0000	34.1000
Zinc	ug/L	MW-11	04/30/2008		29.3000	34.1000
Zinc	ug/L	MW-11	07/09/2008		121.0000	34.1000
Zinc	ug/L	MW-11	09/11/2008		25.4000	34.1000
Zinc	ug/L	MW-11	12/10/2008		31.2000	34.1000
Zinc	ug/L	MW-11	03/03/2009		56.1000	34.1000
Zinc	ug/L	MW-11	08/21/2009		40.5000	34.1000
Zinc	ug/L	MW-11	10/21/2009		53.9000	34.1000
Zinc	ug/L	MW-11	03/11/2010		75.5000	34.1000
Zinc	ug/L	MW-11	08/31/2010		24.9000	34.1000
Zinc	ug/L	MW-11	02/16/2011	ND	20.0000	34.1000
Zinc	ug/L	MW-11	10/27/2011	ND	20.0000	34.1000
Zinc	ug/L	MW-11	04/26/2012	ND	20.0000	34.1000
Zinc	ug/L	MW-11	10/09/2012	ND	20.0000	34.1000
Zinc	ug/L	MW-11	02/20/2013		52.7000	34.1000
Zinc	ug/L	MW-11	10/03/2013		151.5000	34.1000
Zinc	ug/L	MW-11	04/22/2014	ND	20.0000	34.1000
Zinc	ug/L	MW-11	10/14/2014	ND	20.0000	34.1000
Zinc	ug/L	MW-11	05/12/2015	ND	10.0000	34.1000
Zinc	ug/L	MW-11	07/29/2015	ND	10.0000	34.1000
Zinc	ug/L	MW-11	02/15/2016	ND	10.0000	34.1000
Zinc	ug/L	MW-11	10/31/2016	ND	10.0000	34.1000
Zinc	ug/L	MW-11	03/27/2017	ND	20.0000	34.1000
Zinc	ug/L	MW-11	11/13/2017	ND	20.0000	34.1000
Zinc	ug/L	MW-11	06/06/2018	ND	20.0000	34.1000
Zinc	ug/L	MW-11	11/26/2018	ND	20.0000	34.1000
Zinc	ug/L	MW-11	03/18/2019	ND	20.0000	34.1000
Zinc	ug/L	MW-11	12/02/2019	ND	20.0000	34.1000
Zinc	ug/L	MW-11	03/30/2020	ND	20.0000	34.1000
Zinc	ug/L	MW-11	11/17/2020	ND	20.0000	34.1000
Zinc	ug/L	MW-11	05/06/2021	ND	20.0000	34.1000
Zinc	ug/L	MW-11	10/07/2021	ND	20.0000	34.1000
Zinc	ug/L	MW-11	04/06/2022	ND	20.0000	34.1000
Zinc	ug/L	MW-11	08/23/2022	ND	20.0000	34.1000
Zinc	ug/L	MW-11	03/08/2023	ND	20.0000	34.1000
Zinc	ug/L	MW-11	09/13/2023	ND	20.0000	34.1000
Zinc	ug/L	MW-11	05/29/2024	ND	11.5000	34.1000
Zinc	ug/L	MW-11	10/15/2024		28.4000	34.1000
Zinc	ug/L	MW-11	04/16/2025		131.0000	34.1000

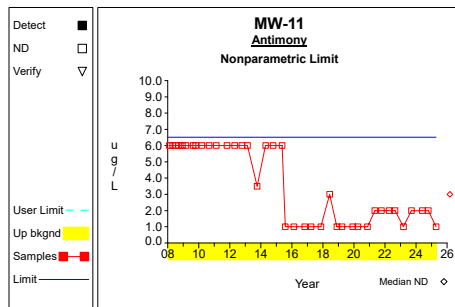
* - Significantly increased over background.

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

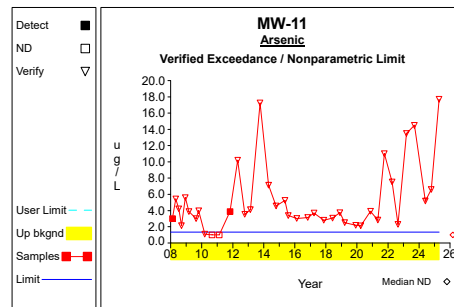
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

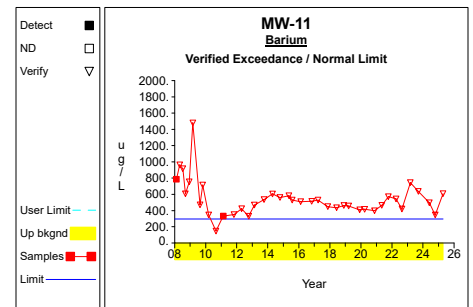
Up vs. Down Prediction Limits



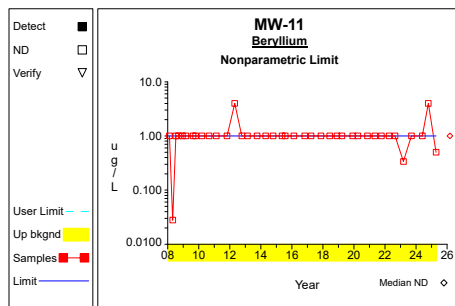
Graph 1



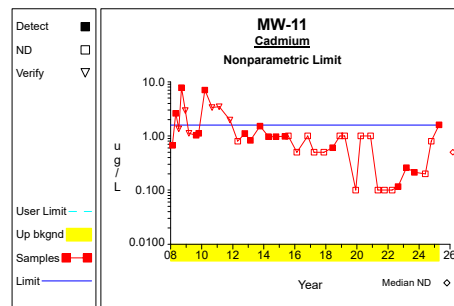
Graph 2



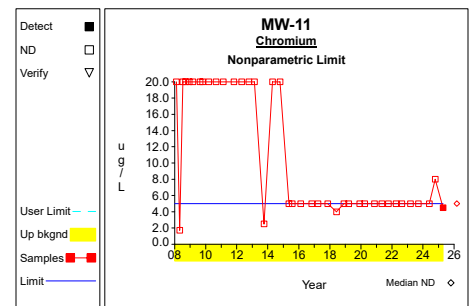
Graph 3



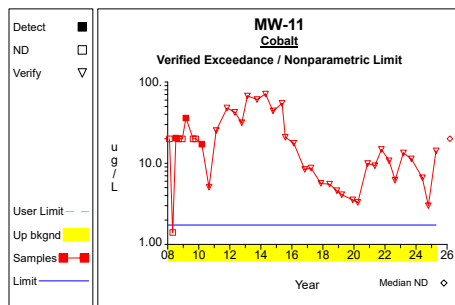
Graph 4



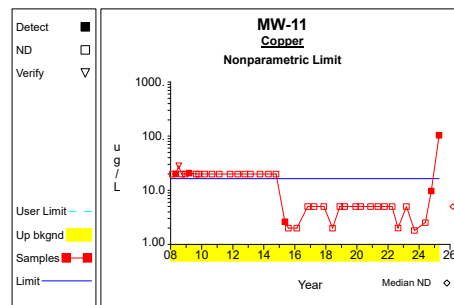
Graph 5



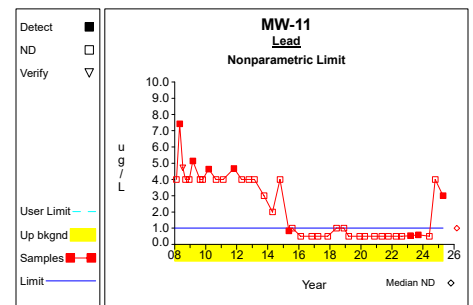
Graph 6



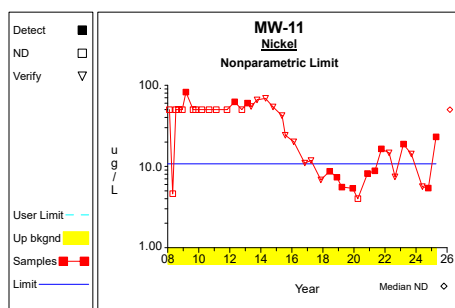
Graph 7



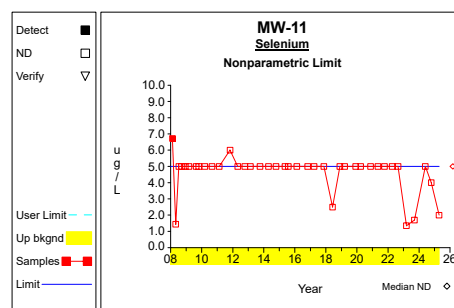
Graph 8



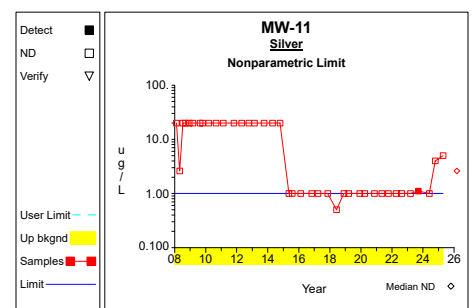
Graph 9



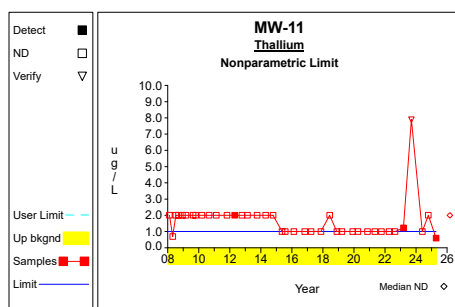
Graph 10



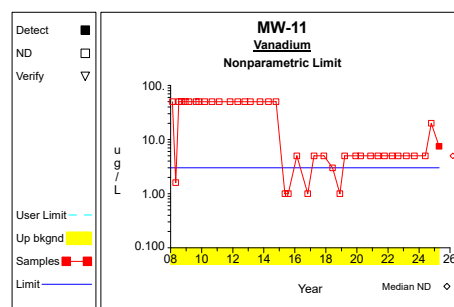
Graph 11



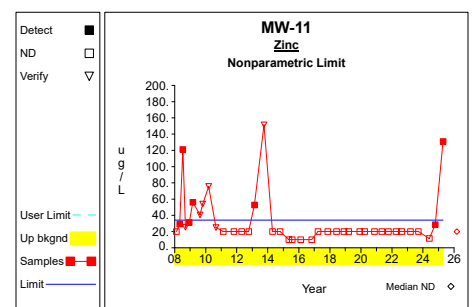
Graph 12



Graph 13

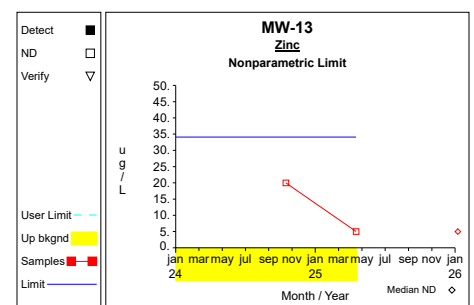
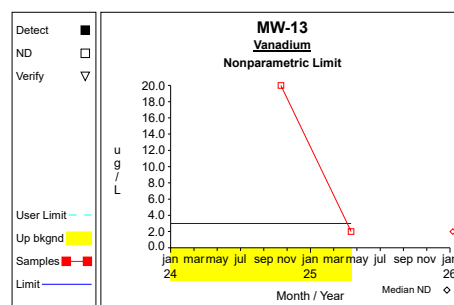
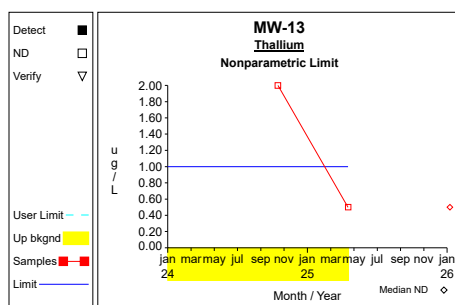
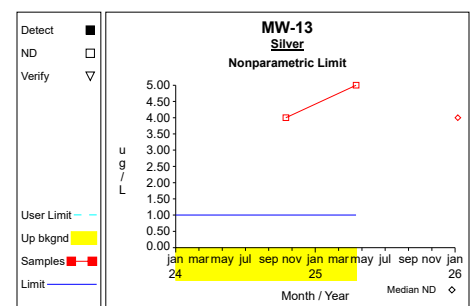
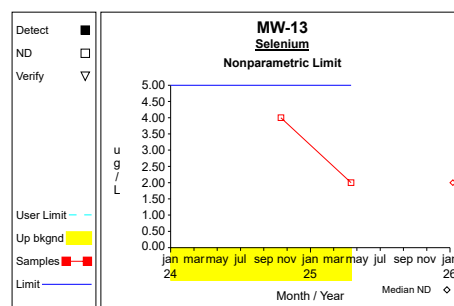
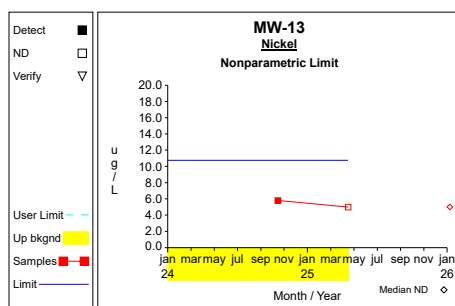
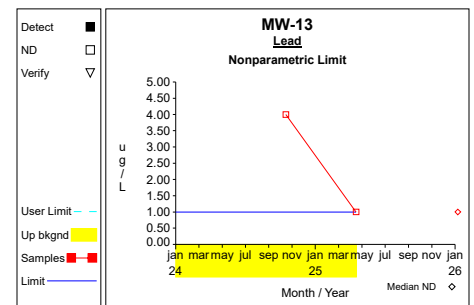
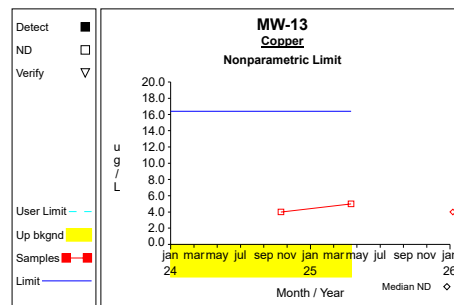
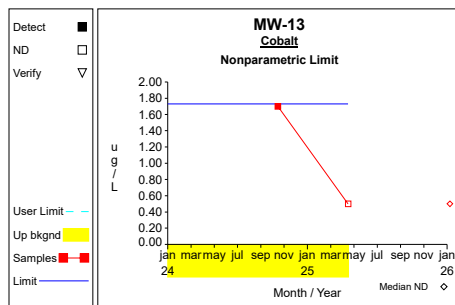
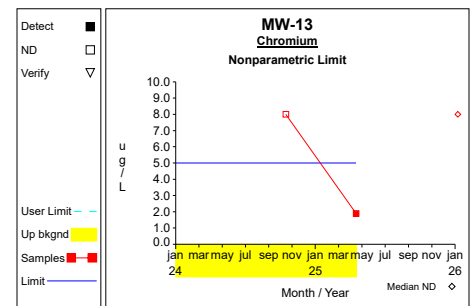
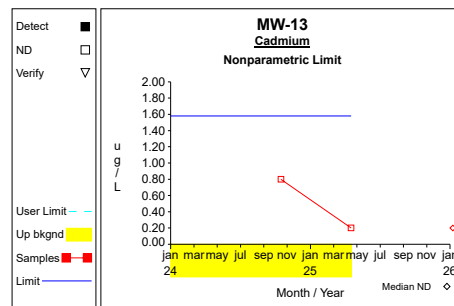
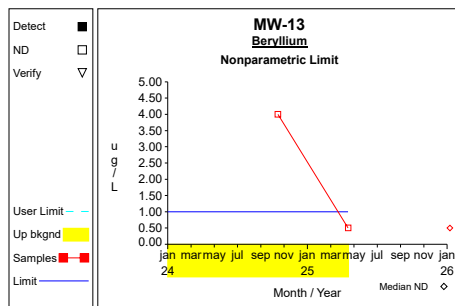
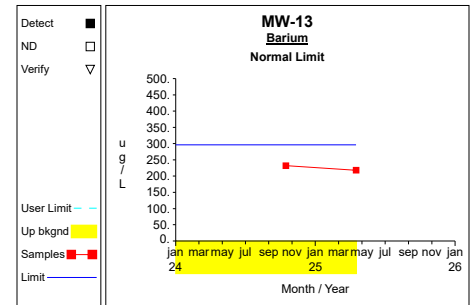
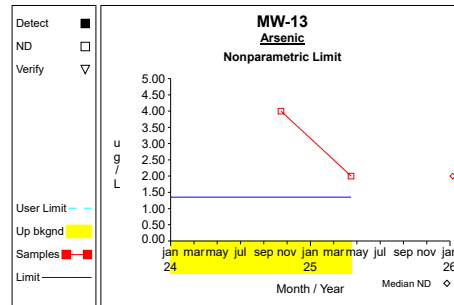
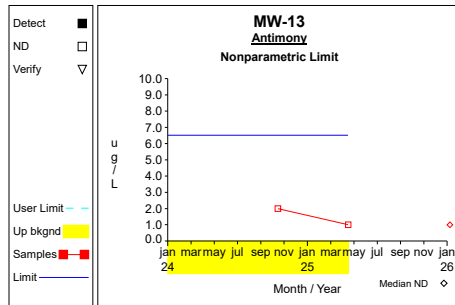


Graph 14

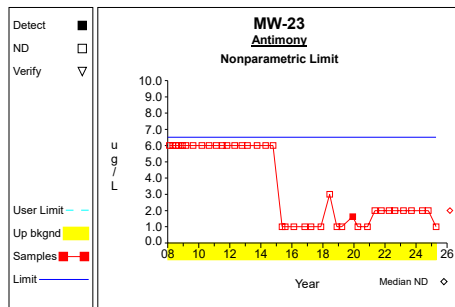


Graph 15

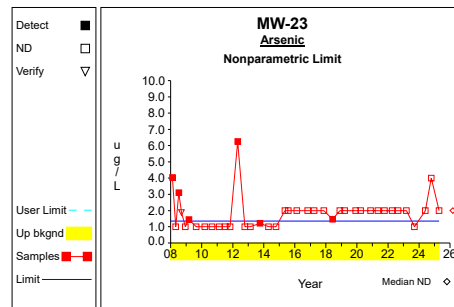
Up vs. Down Prediction Limits



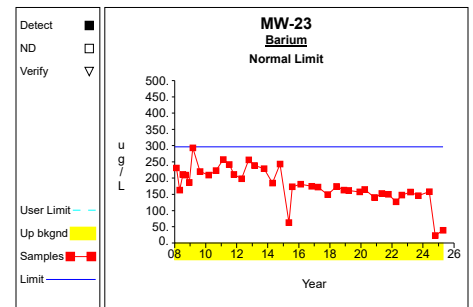
Up vs. Down Prediction Limits



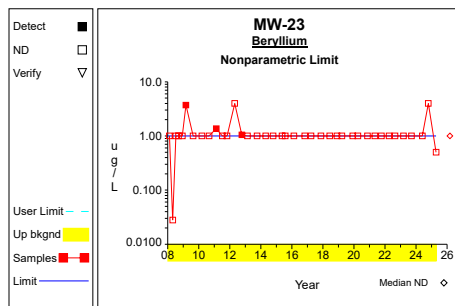
Graph 31



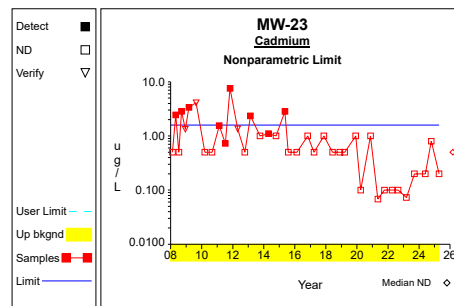
Graph 32



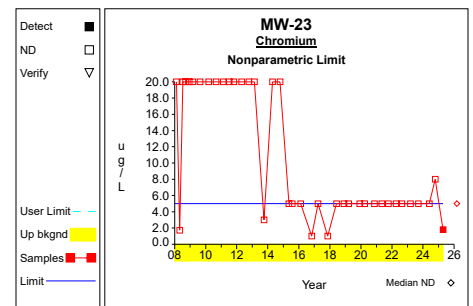
Graph 33



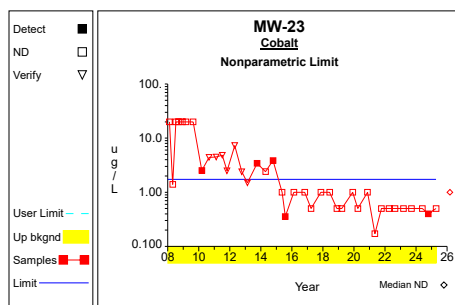
Graph 34



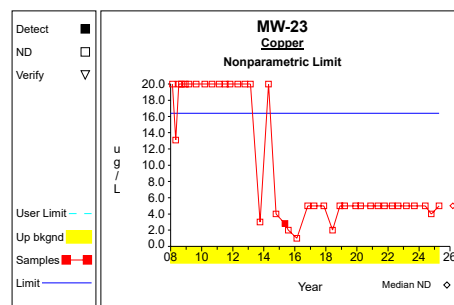
Graph 35



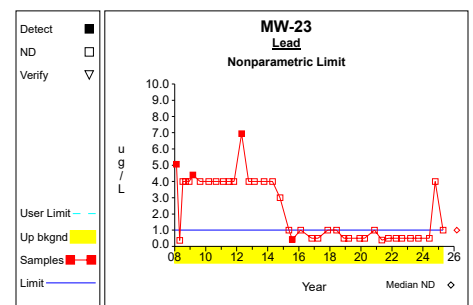
Graph 36



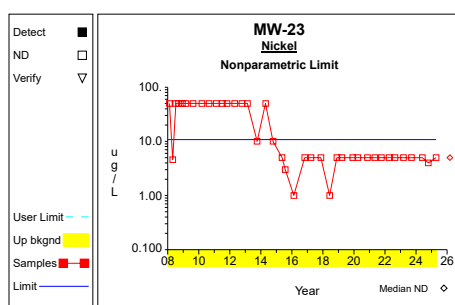
Graph 37



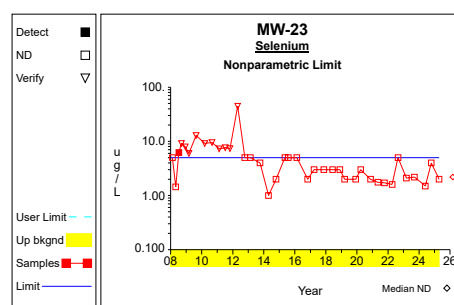
Graph 38



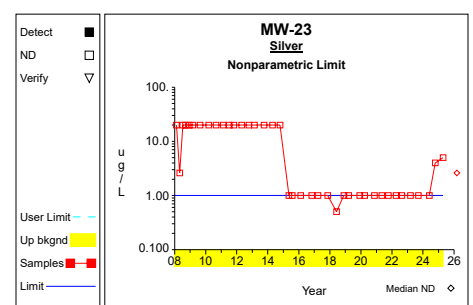
Graph 39



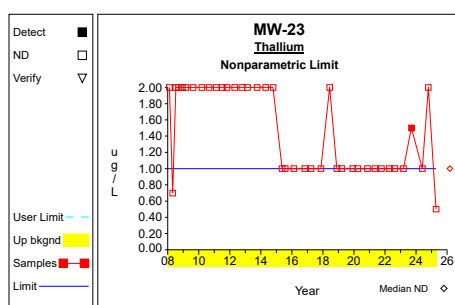
Graph 40



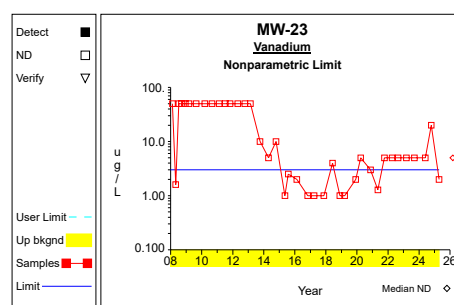
Graph 41



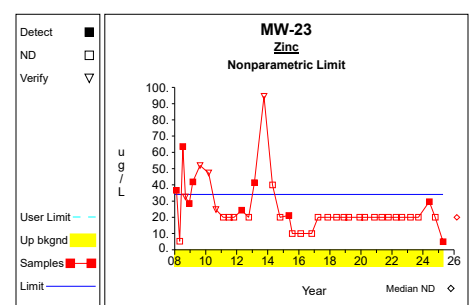
Graph 42



Graph 43

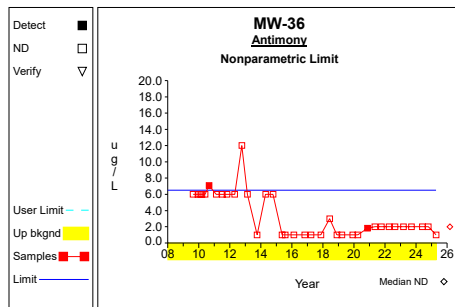


Graph 44

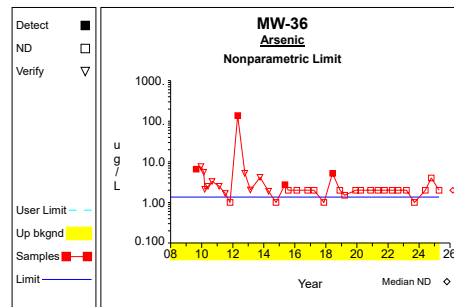


Graph 45

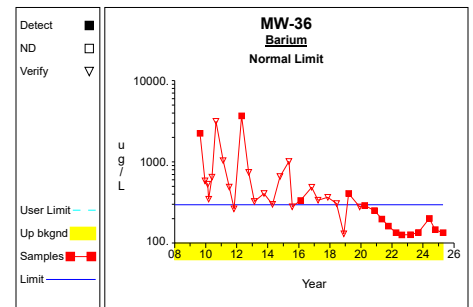
Up vs. Down Prediction Limits



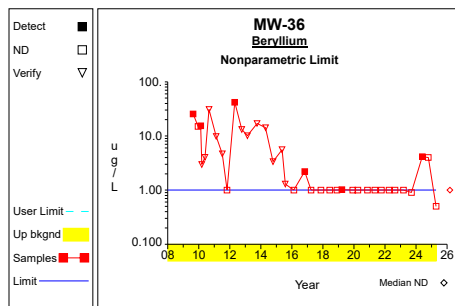
Graph 46



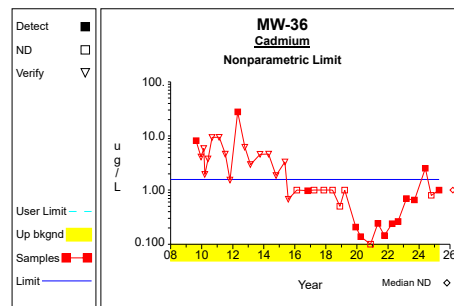
Graph 47



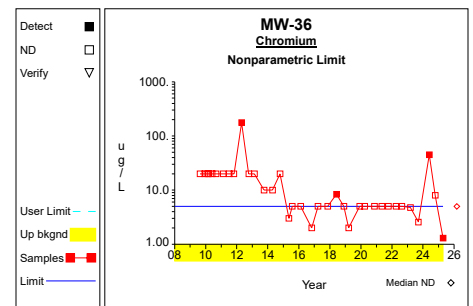
Graph 48



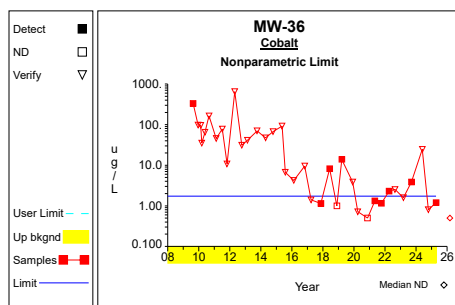
Graph 49



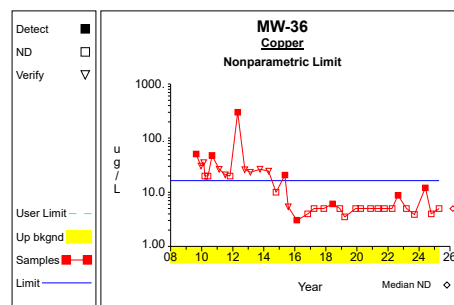
Graph 50



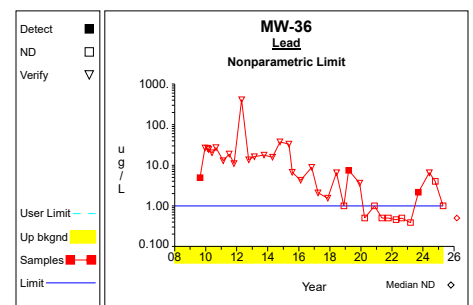
Graph 51



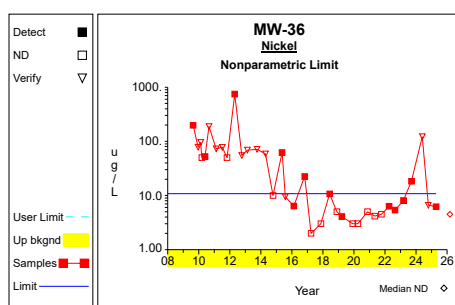
Graph 52



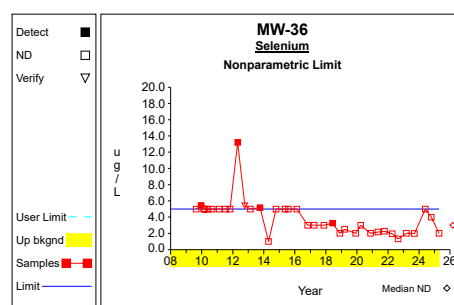
Graph 53



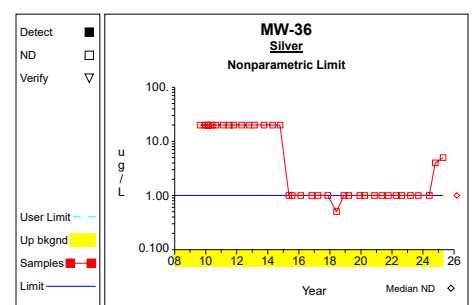
Graph 54



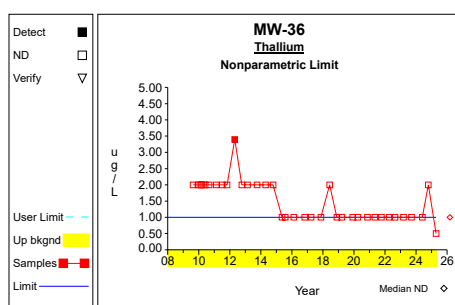
Graph 55



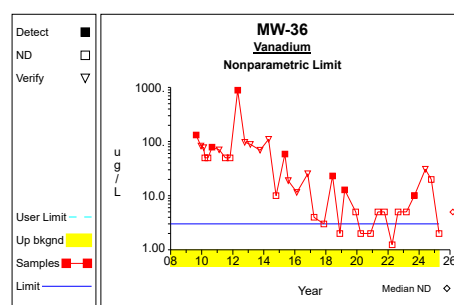
Graph 56



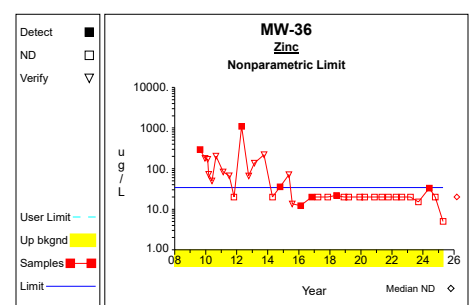
Graph 57



Graph 58

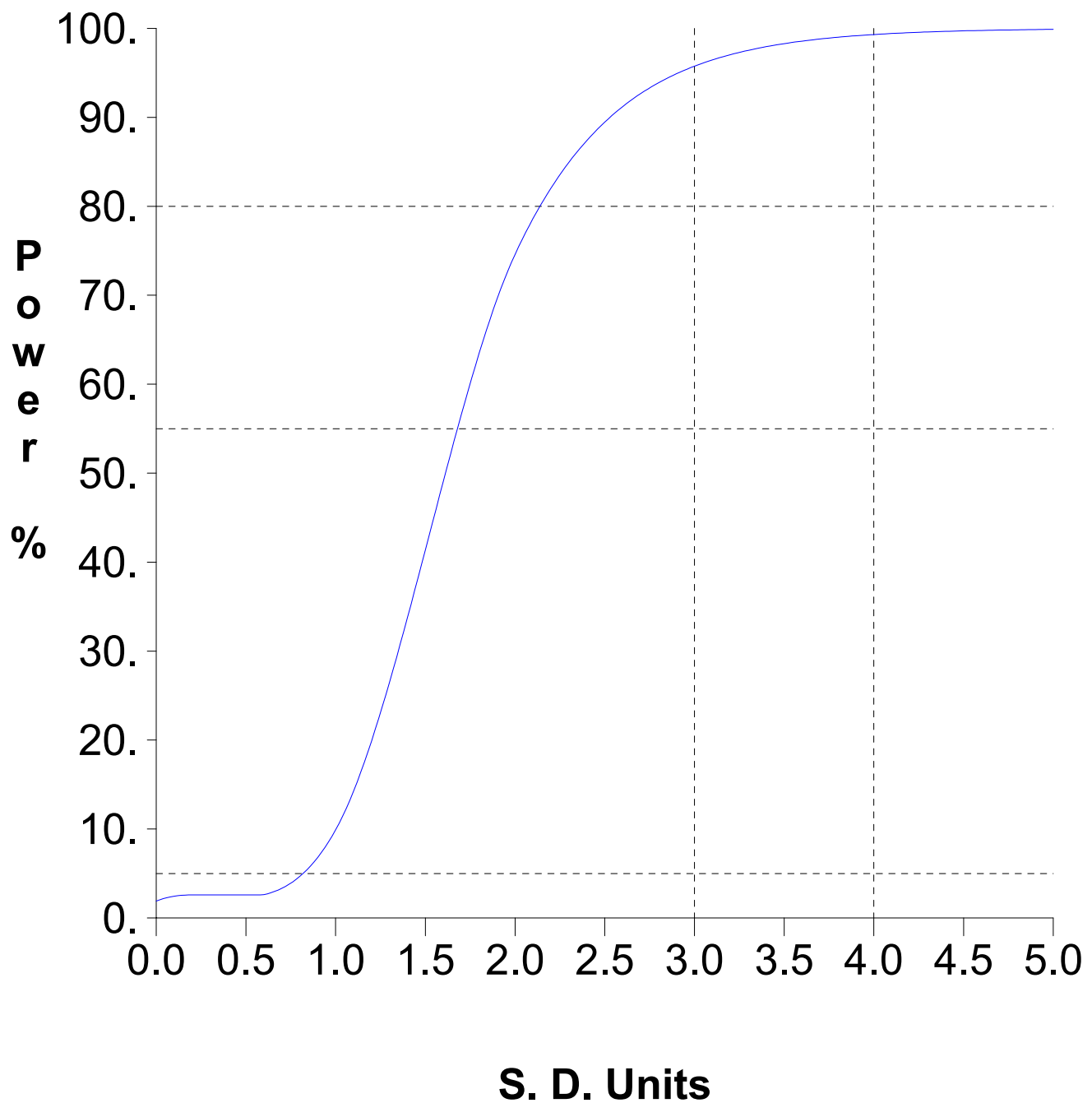


Graph 59



Graph 60

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



Attachment D

Summary Tables and Graphs for the Intrawell Comparisons

Table 1

**Summary Statistics and Intermediate Computations
for Combined Shewhart-CUSUM Control Charts**

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Antimony	ug/L	MW-11	36	3	39			2.0000	1.0000			3.5000	nonpar	.99	**
Arsenic	ug/L	MW-11	36	3	39	4.8763	3.8342	6.6000	17.7000	4.8763	14.8244	29.7985	normal		
Barium	ug/L	MW-11	35	3	39	563.0571	222.0084	346.0000	608.0000	563.0571	563.0571	2006.1116	normal		
Beryllium	ug/L	MW-11	34	3	39			4.0000	0.5000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-11	36	3	39	1.3638	1.7185	0.8000	1.6000	1.3638	1.3638	12.5342	normal		
Chromium	ug/L	MW-11	36	3	39			8.0000	4.5000			5.0000	nonpar	.99	**
Cobalt	ug/L	MW-11	36	3	39	22.2667	18.8248	3.0000	14.2000	22.2667	22.2667	144.6276	normal		
Copper	ug/L	MW-11	36	3	39			9.7000	104.0000			28.3000	nonpar	.99	**
Lead	ug/L	MW-11	36	3	39			4.0000	3.0000			7.4200	nonpar	.99	**
Nickel	ug/L	MW-11	37	3	40	35.9404	22.6464	5.4000	23.1000	35.9404	35.9404	183.1417	normal		
Selenium	ug/L	MW-11	34	3	39			4.0000	2.0000			6.7200	nonpar	.99	**
Silver	ug/L	MW-11	36	3	39			4.0000	5.0000			2.6100	nonpar	.99	**
Thallium	ug/L	MW-11	35	3	39			2.0000	0.6000			2.0000	nonpar	.99	**
Vanadium	ug/L	MW-11	36	3	39			20.0000	7.5000			5.0000	nonpar	.99	**
Zinc	ug/L	MW-11	36	3	39	32.2778	28.9600	28.4000	131.0000	32.2778	109.2800	220.5175	normal		
Antimony	ug/L	MW-13	2	0	2										*
Arsenic	ug/L	MW-13	2	0	2										*
Barium	ug/L	MW-13	2	0	2										*
Beryllium	ug/L	MW-13	2	0	2										*
Cadmium	ug/L	MW-13	2	0	2										*
Chromium	ug/L	MW-13	2	0	2										*
Cobalt	ug/L	MW-13	2	0	2										*
Copper	ug/L	MW-13	2	0	2										*
Lead	ug/L	MW-13	2	0	2										*
Nickel	ug/L	MW-13	2	0	2										*
Selenium	ug/L	MW-13	2	0	2										*
Silver	ug/L	MW-13	2	0	2										*
Thallium	ug/L	MW-13	2	0	2										*
Vanadium	ug/L	MW-13	2	0	2										*
Zinc	ug/L	MW-13	2	0	2										*
Antimony	ug/L	MW-15R	30	3	33			2.0000	1.0000			2.0000	nonpar	.99	**
Arsenic	ug/L	MW-15R	30	3	33			9.1000	19.7000			4.5000	nonpar	.99	**
Barium	ug/L	MW-15R	30	3	33	182.0333	65.3884	376.0000	662.0000	446.8840	877.8093	607.0582	normal		
Beryllium	ug/L	MW-15R	29	3	33			4.0000	0.5000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-15R	30	3	33	0.3360	0.3907	0.8000	0.3000	0.3360	0.3360	2.8758	normal		
Chromium	ug/L	MW-15R	30	3	33			8.0000	2.0000			5.0000	nonpar	.99	**
Cobalt	ug/L	MW-15R	30	3	33			4.2000	7.9000			2.0000	nonpar	.99	**
Copper	ug/L	MW-15R	30	3	33			4.0000	5.0000			5.0000	nonpar	.99	**
Lead	ug/L	MW-15R	30	3	33			4.0000	1.0000			0.5180	nonpar	.99	**
Nickel	ug/L	MW-15R	30	3	33			6.3000	6.5000			5.0000	nonpar	.99	**
Selenium	ug/L	MW-15R	30	3	33			4.0000	2.0000			5.0000	nonpar	.99	**
Silver	ug/L	MW-15R	30	3	33			4.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-15R	30	3	33			2.0000	0.5000			1.0000	nonpar	.99	**
Vanadium	ug/L	MW-15R	30	3	33			20.0000	5.2000			5.0000	nonpar	.99	**
Zinc	ug/L	MW-15R	30	3	33	33.7833	37.4957	20.0000	12.8000	33.7833	33.7833	277.5053	normal		
Antimony	ug/L	MW-19	36	3	39			2.0000	1.0000			2.0000	nonpar	.99	**

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.

N(tot) = All independent measurements for that constituent and well.

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

Conf = confidence level for passing initial test or one verification resample (nonparametric test only).

* - Insufficient Data.

** - Detection Frequency < 25%.

*** - Zero Variance.

Table 1

**Summary Statistics and Intermediate Computations
for Combined Shewhart-CUSUM Control Charts**

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Arsenic	ug/L	MW-19	34	3	39	1.8294	1.5171	4.0000	2.0000	1.8294	1.8294	11.6906	normal		
Barium	ug/L	MW-19	36	3	40	910.8889	250.9707	966.0000	1240.0000	910.8889	1051.7720	2542.1982	normal		
Beryllium	ug/L	MW-19	34	3	39			4.0000	0.5000			1.6100	nonpar	.99	**
Cadmium	ug/L	MW-19	36	3	39	3.0186	7.6119	0.8000	0.3000	3.0186	3.0186	52.4959	normal		
Chromium	ug/L	MW-19	36	3	39			8.0000	2.2000			39.4000	nonpar	.99	**
Cobalt	ug/L	MW-19	36	3	39	16.7161	6.5907	19.5000	22.6000	16.7161	17.6570	59.5557	normal		
Copper	ug/L	MW-19	36	3	39			4.0000	5.0000			23.2000	nonpar	.99	**
Lead	ug/L	MW-19	36	3	39	3.2083	5.1049	4.0000	1.0000	3.2083	3.2083	36.3901	normal		
Nickel	ug/L	MW-19	36	3	40	57.4208	14.4156	55.7000	52.9000	57.4208	57.4208	151.1220	normal		
Selenium	ug/L	MW-19	34	3	39			4.0000	2.0000			5.0000	nonpar	.99	**
Silver	ug/L	MW-19	36	3	39			4.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-19	34	3	39			2.0000	0.5000			2.0000	nonpar	.99	**
Vanadium	ug/L	MW-19	36	3	39			20.0000	2.0000			53.2000	nonpar	.99	**
Zinc	ug/L	MW-19	36	3	39	39.5000	34.4456	20.0000	5.8000	39.5000	39.5000	263.3962	normal		
Antimony	ug/L	MW-20	33	3	36			2.0000	1.0000			6.4500	nonpar	.99	**
Arsenic	ug/L	MW-20	31	3	36	81.6452	28.2886	77.5000	71.2000	81.6452	81.6452	265.5212	normal		
Barium	ug/L	MW-20	32	3	36	3274.5313	1006.7973	2430.0000	1780.0000	3274.5313	3274.5313	9818.7140	normal		
Beryllium	ug/L	MW-20	30	3	36			4.0000	0.5000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-20	33	3	36	1.4612	2.7129	0.8000	0.2000	1.4612	1.4612	19.0953	normal		
Chromium	ug/L	MW-20	33	3	36			8.0000	1.5000			24.2000	nonpar	.99	**
Cobalt	ug/L	MW-20	33	3	36	17.4877	8.5210	9.9000	3.6000	17.4877	17.4877	72.8744	normal		
Copper	ug/L	MW-20	33	3	36			4.0000	5.0000			33.4000	nonpar	.99	**
Lead	ug/L	MW-20	33	3	36	3.2270	5.5994	4.0000	1.0000	3.2270	3.2270	39.6228	normal		
Nickel	ug/L	MW-20	33	3	36	71.6303	42.0369	50.8000	9.5000	71.6303	71.6303	344.8700	normal		
Selenium	ug/L	MW-20	30	3	36			4.0000	2.0000			5.0000	nonpar	.99	**
Silver	ug/L	MW-20	32	3	36			4.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-20	33	3	36			2.0000	0.5000			2.0000	nonpar	.99	**
Vanadium	ug/L	MW-20	33	3	36			20.0000	2.2000			4.6000	nonpar	.99	**
Zinc	ug/L	MW-20	33	3	36	72.7606	90.4618	20.0000	5.0000	72.7606	72.7606	660.7625	normal		
Antimony	ug/L	MW-21	32	3	35			2.0000	1.0000			2.0000	nonpar	.99	**
Arsenic	ug/L	MW-21	31	3	35	1.6079	0.9981	6.7000	2.0000	5.9549	3.5984	8.0957	normal		
Barium	ug/L	MW-21	31	3	35	951.4839	279.3301	1170.0000	1050.0000	960.5024	951.4839	2767.1298	normal		
Beryllium	ug/L	MW-21	30	3	35			4.0000	0.5000			1.2300	nonpar	.99	**
Cadmium	ug/L	MW-21	32	3	35	0.9664	2.7210	0.8000	0.2000	0.9664	0.9664	18.6526	normal		
Chromium	ug/L	MW-21	31	3	35			8.0000	1.4000			68.5000	nonpar	.99	**
Cobalt	ug/L	MW-21	30	3	35	9.3770	9.4157	13.4000	19.0000	9.3770	11.9383	70.5787	normal		
Copper	ug/L	MW-21	31	3	35			7.4000	5.0000			21.1000	nonpar	.99	**
Lead	ug/L	MW-21	31	3	35			4.0000	1.0000			9.3000	nonpar	.99	**
Nickel	ug/L	MW-21	32	3	35	43.4006	35.0463	27.2000	18.0000	43.4006	43.4006	271.2016	normal		
Selenium	ug/L	MW-21	30	3	35			4.0000	2.0000			13.2000	nonpar	.99	**
Silver	ug/L	MW-21	32	3	35			4.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-21	32	3	35			2.0000	0.5000			2.3000	nonpar	.99	**
Vanadium	ug/L	MW-21	32	3	35			20.0000	2.0000			409.0000	nonpar	.99	**
Zinc	ug/L	MW-21	32	3	35	52.5094	84.0728	28.1000	5.0000	52.5094	52.5094	598.9828	normal		
Antimony	ug/L	MW-22	33	2	37			21.6000	5.6000			6.5100	nonpar	.99	**
Arsenic	ug/L	MW-22	33	3	37			4.0000	2.0000			1.3500	nonpar	.99	**

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Table 1

**Summary Statistics and Intermediate Computations
for Combined Shewhart-CUSUM Control Charts**

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Barium	ug/L	MW-22	34	3	37	246.6618	19.4666	231.0000	283.0000	246.6618	268.4000	373.1950	normal	.99	**
Beryllium	ug/L	MW-22	32	3	37			4.0000	0.5000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-22	34	3	37			0.8000	0.2000			1.5800	nonpar	.99	**
Chromium	ug/L	MW-22	33	3	37			8.0000	1.7000			5.0000	nonpar	.99	**
Cobalt	ug/L	MW-22	34	3	37			0.4000	0.5000			1.7300	nonpar	.99	**
Copper	ug/L	MW-22	34	3	37			4.0000	5.0000			16.4000	nonpar	.99	**
Lead	ug/L	MW-22	34	3	37			4.0000	1.0000			1.0000	nonpar	.99	**
Nickel	ug/L	MW-22	34	3	37			4.0000	5.0000			10.7500	nonpar	.99	**
Selenium	ug/L	MW-22	34	3	37			4.0000	2.0000			5.0000	nonpar	.99	**
Silver	ug/L	MW-22	34	3	37			4.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-22	34	3	37			2.0000	0.5000			1.0000	nonpar	.99	**
Vanadium	ug/L	MW-22	34	3	37			20.0000	2.0000			3.0000	nonpar	.99	**
Zinc	ug/L	MW-22	32	3	37			20.0000	5.0000			34.1000	nonpar	.99	**
Antimony	ug/L	MW-23	36	3	39			2.0000	1.0000			6.0000	nonpar	.99	**
Arsenic	ug/L	MW-23	36	3	39			4.0000	2.0000			6.2500	nonpar	.99	**
Barium	ug/L	MW-23	36	3	39	187.8139	45.1319	23.3000	39.1000	187.8139	187.8139	481.1711	normal	.99	**
Beryllium	ug/L	MW-23	33	3	39			4.0000	0.5000			1.3700	nonpar	.99	**
Cadmium	ug/L	MW-23	36	3	39	1.2107	1.4564	0.8000	0.2000	1.2107	1.2107	10.6771	normal	.99	**
Chromium	ug/L	MW-23	36	3	39			8.0000	1.8000			5.0000	nonpar	.99	**
Cobalt	ug/L	MW-23	36	3	39	1.7381	1.5093	0.4000	0.5000	1.7381	1.7381	11.5488	normal	.99	**
Copper	ug/L	MW-23	36	3	39			4.0000	5.0000			5.0000	nonpar	.99	**
Lead	ug/L	MW-23	36	3	39			4.0000	1.0000			6.9500	nonpar	.99	**
Nickel	ug/L	MW-23	36	3	39			4.0000	5.0000			5.0000	nonpar	.99	**
Selenium	ug/L	MW-23	35	3	39	4.5103	2.6291	4.0000	2.0000	4.5103	4.5103	21.5995	normal	.99	**
Silver	ug/L	MW-23	36	3	39			4.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-23	36	3	39			2.0000	0.5000			2.0000	nonpar	.99	**
Vanadium	ug/L	MW-23	36	3	39			20.0000	2.0000			5.0000	nonpar	.99	**
Zinc	ug/L	MW-23	36	3	39	27.4611	15.7616	20.0000	5.0000	27.4611	27.4611	129.9114	normal	.99	**
Antimony	ug/L	MW-24	8	0	8								nonpar *		**
Arsenic	ug/L	MW-24	24	0	24	5.5471	12.4141	9.9000	4.2000			86.2387	normal		*
Barium	ug/L	MW-24	21	0	21	603.9048	245.4113	700.0000	779.0000			2199.0780	normal		*
Beryllium	ug/L	MW-24	7	0	8										*
Cadmium	ug/L	MW-24	9	0	9	0.8089	0.2636	1.1000	1.0000			2.5223	normal		*
Chromium	ug/L	MW-24	7	0	8										*
Cobalt	ug/L	MW-24	10	0	12	7.3560	12.5076	4.3000	2.9000			88.6555	normal		**
Copper	ug/L	MW-24	8	0	8								nonpar *		**
Lead	ug/L	MW-24	8	0	8								nonpar *		**
Nickel	ug/L	MW-24	17	0	17	19.5588	12.8338	32.7000	31.3000			102.9786	normal		**
Selenium	ug/L	MW-24	8	0	8								nonpar *		**
Silver	ug/L	MW-24	6	0	8										*
Thallium	ug/L	MW-24	8	0	8										*
Vanadium	ug/L	MW-24	7	0	8										*
Zinc	ug/L	MW-24	7	0	8										*
Antimony	ug/L	MW-36	33	3	36			2.0000	1.0000			7.0800	nonpar	.99	**
Arsenic	ug/L	MW-36	32	3	36	2.7830	1.5451	4.0000	2.0000	2.7830	2.7830	12.8263	normal		
Barium	ug/L	MW-36	33	3	36	629.6818	824.1830	146.0000	134.0000	629.6818	629.6818	5986.8714	normal		

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Table 1

**Summary Statistics and Intermediate Computations
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Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Beryllium	ug/L	MW-36	33	3	36	6.6428	9.8833	4.0000	0.5000	6.6428	6.6428	70.8840	normal		
Cadmium	ug/L	MW-36	33	3	36	3.3741	5.1441	0.8000	1.0000	3.3741	3.3741	36.8104	normal		
Chromium	ug/L	MW-36	32	3	36			8.0000	1.3000			8.3800	nonpar	.99	**
Cobalt	ug/L	MW-36	33	3	36	60.2564	124.7693	0.8000	1.2000	60.2564	60.2564	871.2567	normal		
Copper	ug/L	MW-36	33	3	36	22.4945	51.5615	4.0000	5.0000	22.4945	22.4945	357.6446	normal		
Lead	ug/L	MW-36	33	3	36	23.1656	70.4431	4.0000	1.0000	23.1656	23.1656	481.0459	normal		
Nickel	ug/L	MW-36	33	3	36	59.5220	132.5800	6.6000	6.2000	59.5220	59.5220	921.2922	normal		
Selenium	ug/L	MW-36	33	3	36			4.0000	2.0000			13.2000	nonpar	.99	**
Silver	ug/L	MW-36	33	3	36			4.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-36	33	3	36			2.0000	0.5000			3.4000	nonpar	.99	**
Vanadium	ug/L	MW-36	33	3	36	58.6197	153.9158	20.0000	2.0000	58.6197	58.6197	1059.0721	normal		
Zinc	ug/L	MW-36	33	3	36	94.3682	194.3750	20.0000	5.0000	94.3682	94.3682	1357.8059	normal		
Antimony	ug/L	MW-37R	13	2	15			2.0000	1.0000			1.5300	nonpar	.99	**
Arsenic	ug/L	MW-37R	13	2	15			4.0000	2.0000			1.2100	nonpar	.99	**
Barium	ug/L	MW-37R	14	2	16	823.6429	83.3174	715.0000	687.0000	823.6429	823.6429	1365.2058	normal		
Beryllium	ug/L	MW-37R	13	2	15			4.0000	0.5000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-37R	13	2	15	0.2397	0.0951	0.8000	0.2000	0.2397	0.2397	0.8578	normal		
Chromium	ug/L	MW-37R	13	2	15			8.0000	1.8000			5.0000	nonpar	.99	**
Cobalt	ug/L	MW-37R	13	2	15	0.8062	0.6372	0.4000	0.5000	0.8062	0.8062	4.9480	normal		
Copper	ug/L	MW-37R	13	2	15			4.0000	5.0000			3.7000	nonpar	.99	**
Lead	ug/L	MW-37R	14	2	16	1.4839	1.2107	4.0000	1.0000	1.4839	1.4839	9.3535	normal		
Nickel	ug/L	MW-37R	14	2	16	7.1907	2.4316	4.0000	5.0000	7.1907	7.1907	22.9964	normal		
Selenium	ug/L	MW-37R	14	2	16	16.0554	14.7053	15.8000	50.3000	16.0554	39.2710	111.6396	normal		
Silver	ug/L	MW-37R	13	2	15			4.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-37R	13	2	15			2.0000	0.5000			1.0000	nonpar	.99	**
Vanadium	ug/L	MW-37R	13	2	15			20.0000	2.0000			8.2900	nonpar	.99	**
Zinc	ug/L	MW-37R	13	2	15			20.0000	5.0000			20.0000	nonpar	.99	**
Antimony	ug/L	MW-38R	13	2	15			2.0000	1.0000			2.0000	nonpar	.99	**
Arsenic	ug/L	MW-38R	12	2	15								nonpar *		**
Barium	ug/L	MW-38R	14	2	16	453.2143	166.7311	337.0000	215.0000	453.2143	453.2143	1536.9664	normal		
Beryllium	ug/L	MW-38R	13	2	15			4.0000	0.5000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-38R	14	2	16	0.2249	0.1152	1.9000	0.2000	1.8136	0.2249	0.9738	normal		
Chromium	ug/L	MW-38R	12	2	15								nonpar *		**
Cobalt	ug/L	MW-38R	14	2	16	1.2680	1.2858	16.8000	0.5000	15.8356	1.2680	9.6260	normal		
Copper	ug/L	MW-38R	13	2	15			23.9000	5.0000			5.8800	nonpar	.99	**
Lead	ug/L	MW-38R	13	2	15			14.5000	1.0000			0.6840	nonpar	.99	**
Nickel	ug/L	MW-38R	13	2	16	7.3423	2.8826	145.0000	5.0000	142.8381	7.3423	26.0791	normal		
Selenium	ug/L	MW-38R	13	2	15	12.5077	12.4743	7.8000	3.2000	12.5077	12.5077	93.5909	normal		
Silver	ug/L	MW-38R	13	2	15			4.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-38R	13	2	15			2.0000	0.5000			1.0000	nonpar	.99	**
Vanadium	ug/L	MW-38R	13	2	15			59.3000	2.0000			1.5400	nonpar	.99	**
Zinc	ug/L	MW-38R	13	2	15			44.0000	5.0000			20.0000	nonpar	.99	**
Antimony	ug/L	MW-39	34	3	37			2.0000	1.0000			2.0000	nonpar	.99	**
Arsenic	ug/L	MW-39	32	3	37			4.0000	2.0000			2.0000	nonpar	.99	**
Barium	ug/L	MW-39	33	3	37	80.0576	16.6469	93.1000	95.8000	80.6148	83.8720	188.2626	normal		
Beryllium	ug/L	MW-39	32	3	37			4.0000	0.5000			1.0000	nonpar	.99	**

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Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Cadmium	ug/L	MW-39	34	3	37			0.8000	0.2000			5.5100	nonpar	.99	**
Chromium	ug/L	MW-39	34	3	37			8.0000	1.8000			5.2800	nonpar	.99	**
Cobalt	ug/L	MW-39	34	3	37			0.4000	0.5000			15.6000	nonpar	.99	**
Copper	ug/L	MW-39	34	3	37			4.0000	5.0000			5.0000	nonpar	.99	**
Lead	ug/L	MW-39	34	3	37			4.0000	1.0000			11.5000	nonpar	.99	**
Nickel	ug/L	MW-39	34	3	37			4.0000	5.0000			5.0000	nonpar	.99	**
Selenium	ug/L	MW-39	33	3	37	77.7955	17.7657	63.6000	71.5000	77.7955	77.7955	193.2724	normal		
Silver	ug/L	MW-39	34	3	37			4.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-39	34	3	37			2.0000	0.5000			3.3150	nonpar	.99	**
Vanadium	ug/L	MW-39	34	3	37			20.0000	2.0000			5.0000	nonpar	.99	**
Zinc	ug/L	MW-39	34	3	37			20.0000	5.0000			90.4000	nonpar	.99	**
Antimony	ug/L	MW-43	7	0	7										*
Arsenic	ug/L	MW-43	13	0	13			1.2600	6.8000			6.8000	nonpar	.99	**
Barium	ug/L	MW-43	7	0	7										*
Beryllium	ug/L	MW-43	6	0	7										*
Cadmium	ug/L	MW-43	7	0	7										*
Chromium	ug/L	MW-43	7	0	7										*
Cobalt	ug/L	MW-43	15	0	15	11.4047	29.1827	1.3000	2.5000			201.0923	normal		*
Copper	ug/L	MW-43	7	0	7										*
Lead	ug/L	MW-43	6	0	7										*
Nickel	ug/L	MW-43	7	0	7										*
Selenium	ug/L	MW-43	7	0	9										*
Silver	ug/L	MW-43	5	0	7										*
Thallium	ug/L	MW-43	7	0	7										*
Vanadium	ug/L	MW-43	7	0	7										*
Zinc	ug/L	MW-43	6	0	7										*

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Table 4

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

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Barium	ug/L	MW-11	08/31/2010	148.0000		02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-11	04/30/2008	0.0280	< 0.0280	02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-11	04/26/2012	4.0000	< 4.0000	02/11/2008-09/13/2023	36	0.4273
Selenium	ug/L	MW-11	04/30/2008	1.4400	< 1.4400	02/11/2008-09/13/2023	36	0.4318
Selenium	ug/L	MW-11	03/08/2023	1.3500	< 1.3500	02/11/2008-09/13/2023	36	0.4318
Thallium	ug/L	MW-11	09/13/2023	7.8900		02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-15R	04/26/2012	4.0000	< 4.0000	03/11/2010-09/13/2023	30	0.4556
Arsenic	ug/L	MW-19	07/07/2011	72.5000		02/11/2008-09/13/2023	36	0.4318
Arsenic	ug/L	MW-19	04/26/2012	19.6000		02/11/2008-09/13/2023	36	0.4318
Barium	ug/L	MW-19	07/07/2011	4440.0000		02/11/2008-09/13/2023	37	0.4232
Beryllium	ug/L	MW-19	04/26/2012	4.0000	< 4.0000	02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-19	05/12/2015	0.0760	< 0.0760	02/11/2008-09/13/2023	36	0.4273
Nickel	ug/L	MW-19	04/30/2008	4.6000	< 4.6000	02/11/2008-09/13/2023	37	0.4232
Selenium	ug/L	MW-19	04/30/2008	1.4400	< 1.4400	02/11/2008-09/13/2023	36	0.4318
Selenium	ug/L	MW-19	05/06/2021	1.1300	< 1.1300	02/11/2008-09/13/2023	36	0.4318
Thallium	ug/L	MW-19	07/29/2015	0.0440	< 0.0440	02/11/2008-09/13/2023	36	0.4318
Thallium	ug/L	MW-19	02/15/2016	0.0350	< 0.0350	02/11/2008-09/13/2023	36	0.4318
Arsenic	ug/L	MW-20	09/11/2008	6.6000		09/11/2008-09/13/2023	33	0.4448
Arsenic	ug/L	MW-20	08/23/2022	7.7800	< 7.7800	09/11/2008-09/13/2023	33	0.4448
Barium	ug/L	MW-20	09/11/2008	646.0000		09/11/2008-09/13/2023	33	0.4405
Beryllium	ug/L	MW-20	04/26/2012	4.0000	< 4.0000	09/11/2008-09/13/2023	33	0.4448
Beryllium	ug/L	MW-20	05/12/2015	0.0900	< 0.0900	09/11/2008-09/13/2023	33	0.4405
Beryllium	ug/L	MW-20	10/07/2021	4.0000	< 4.0000	09/11/2008-09/13/2023	33	0.4448
Selenium	ug/L	MW-20	04/26/2012	27.4000		09/11/2008-09/13/2023	33	0.4405
Selenium	ug/L	MW-20	05/06/2021	1.3900	< 1.3900	09/11/2008-09/13/2023	33	0.4448
Selenium	ug/L	MW-20	03/08/2023	1.0800	< 1.0800	09/11/2008-09/13/2023	33	0.4448
Silver	ug/L	MW-20	05/12/2015	0.0810	< 0.0810	09/11/2008-09/13/2023	33	0.4405
Arsenic	ug/L	MW-21	04/26/2012	46.3000		12/23/2008-09/13/2023	32	0.4448
Barium	ug/L	MW-21	03/18/2019	236.0000		12/23/2008-09/13/2023	32	0.4448
Beryllium	ug/L	MW-21	04/26/2012	10.4000		12/23/2008-09/13/2023	32	0.4448
Beryllium	ug/L	MW-21	04/22/2014	0.2460	< 0.2460	12/23/2008-09/13/2023	32	0.4448
Chromium	ug/L	MW-21	10/31/2016	0.5750	< 0.5750	12/23/2008-09/13/2023	32	0.4448
Cobalt	ug/L	MW-21	04/26/2012	224.0000		12/23/2008-09/13/2023	32	0.4448
Cobalt	ug/L	MW-21	02/15/2016	0.0740	< 0.0740	12/23/2008-09/13/2023	32	0.4448
Copper	ug/L	MW-21	04/26/2012	127.0000		12/23/2008-09/13/2023	32	0.4448
Lead	ug/L	MW-21	04/26/2012	778.0000		12/23/2008-09/13/2023	32	0.4448
Selenium	ug/L	MW-21	08/21/2009	18.9000		12/23/2008-09/13/2023	32	0.4448
Selenium	ug/L	MW-21	05/06/2021	1.0500	< 1.0500	12/23/2008-09/13/2023	32	0.4448
Antimony	ug/L	MW-22	03/28/2016	236.0000		02/11/2008-09/13/2023	34	0.4359
Arsenic	ug/L	MW-22	04/26/2012	4.0000	< 4.0000	02/11/2008-09/13/2023	34	0.4359
Beryllium	ug/L	MW-22	04/30/2008	0.0280	< 0.0280	02/11/2008-09/13/2023	34	0.4359
Beryllium	ug/L	MW-22	04/26/2012	4.0000	< 4.0000	02/11/2008-09/13/2023	34	0.4359
Chromium	ug/L	MW-22	03/28/2016	1.0000	< 1.0000	02/11/2008-09/13/2023	34	0.4359
Zinc	ug/L	MW-22	04/30/2008	5.2700	< 5.2700	02/11/2008-09/13/2023	34	0.4359
Zinc	ug/L	MW-22	07/29/2015	97.4000		02/11/2008-09/13/2023	34	0.4359
Beryllium	ug/L	MW-23	04/30/2008	0.0280	< 0.0280	02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-23	03/03/2009	3.7200		02/11/2008-09/13/2023	36	0.4318
Beryllium	ug/L	MW-23	04/26/2012	4.0000	< 4.0000	02/11/2008-09/13/2023	36	0.4318
Selenium	ug/L	MW-23	04/26/2012	44.6000		02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-24	10/15/2024	4.0000	< 4.0000	04/06/2022-04/16/2025	8	0.6808

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 4

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

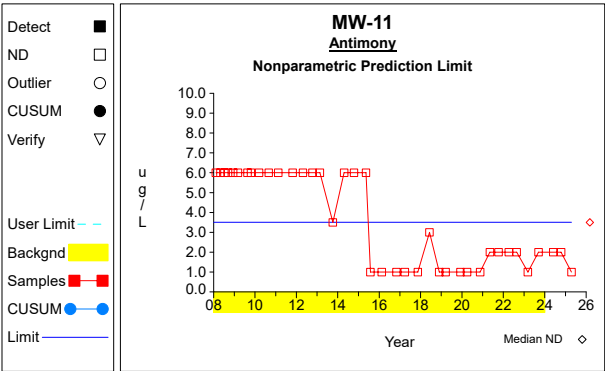
Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Chromium	ug/L	MW-24	04/16/2025	1.1000		04/06/2022-04/16/2025	8	0.6808
Cobalt	ug/L	MW-24	03/18/2019	0.2620	< 0.2620	04/26/2012-04/16/2025	12	0.6736
Cobalt	ug/L	MW-24	03/30/2020	0.8800		04/26/2012-04/16/2025	12	0.6736
Silver	ug/L	MW-24	10/15/2024	4.0000	< 4.0000	04/06/2022-04/16/2025	8	0.6371
Silver	ug/L	MW-24	04/16/2025	5.0000	< 5.0000	04/06/2022-04/16/2025	8	0.6371
Vanadium	ug/L	MW-24	10/15/2024	20.0000	< 20.0000	04/06/2022-04/16/2025	8	0.6808
Zinc	ug/L	MW-24	04/16/2025	5.0000	< 5.0000	04/06/2022-04/16/2025	8	0.6808
Arsenic	ug/L	MW-36	04/26/2012	138.0000		08/21/2009-09/13/2023	33	0.4405
Chromium	ug/L	MW-36	04/26/2012	176.0000		08/21/2009-09/13/2023	33	0.4405
Arsenic	ug/L	MW-38R	05/29/2024	0.5430	< 0.5430	11/27/2018-05/29/2024	13	0.6174
Chromium	ug/L	MW-38R	05/29/2024	177.0000		11/27/2018-05/29/2024	13	0.6174
Nickel	ug/L	MW-38R	05/29/2024	135.0000		11/27/2018-05/29/2024	14	0.6403
Arsenic	ug/L	MW-39	04/26/2012	8.0000		08/21/2009-09/13/2023	34	0.4359
Arsenic	ug/L	MW-39	10/03/2013	0.2110	< 0.2110	08/21/2009-09/13/2023	34	0.4359
Barium	ug/L	MW-39	04/26/2012	331.0000		08/21/2009-09/13/2023	34	0.4359
Beryllium	ug/L	MW-39	04/26/2012	4.0000	< 4.0000	08/21/2009-09/13/2023	34	0.4359
Beryllium	ug/L	MW-39	05/12/2015	0.0730	< 0.0730	08/21/2009-09/13/2023	34	0.4359
Selenium	ug/L	MW-39	04/26/2012	5.9000		08/21/2009-09/13/2023	34	0.4359
Beryllium	ug/L	MW-43	10/15/2024	4.0000	< 4.0000	04/06/2022-04/16/2025	7	0.6371
Lead	ug/L	MW-43	10/15/2024	4.0000	< 4.0000	04/06/2022-04/16/2025	7	0.6371
Selenium	ug/L	MW-43	04/06/2022	27.5000		04/06/2022-04/16/2025	9	0.6808
Selenium	ug/L	MW-43	03/08/2023	24.4000		04/06/2022-04/16/2025	9	0.6808
Silver	ug/L	MW-43	10/15/2024	4.0000	< 4.0000	04/06/2022-04/16/2025	7	0.6987
Silver	ug/L	MW-43	04/16/2025	5.0000	< 5.0000	04/06/2022-04/16/2025	7	0.6987
Zinc	ug/L	MW-43	04/16/2025	5.0000	< 5.0000	04/06/2022-04/16/2025	7	0.6371

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

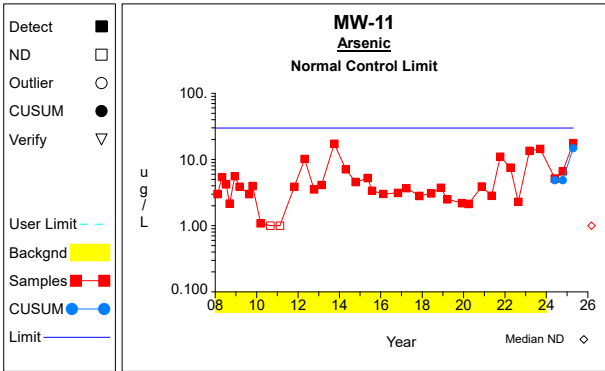
Date Range = Dates of the first and last measurements included in background at each well.

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.

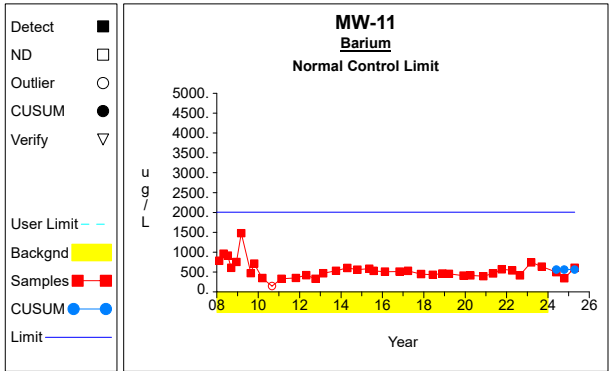
Intra-Well Control Charts / Prediction Limits



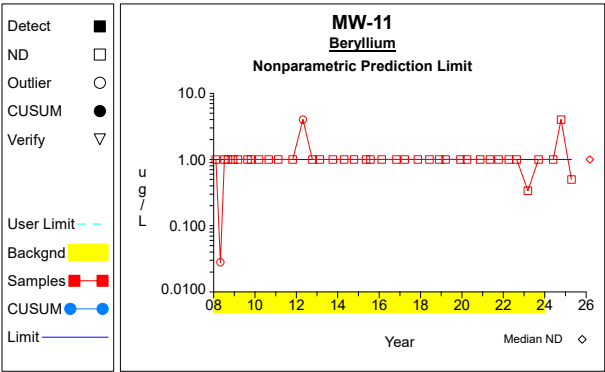
Graph 1



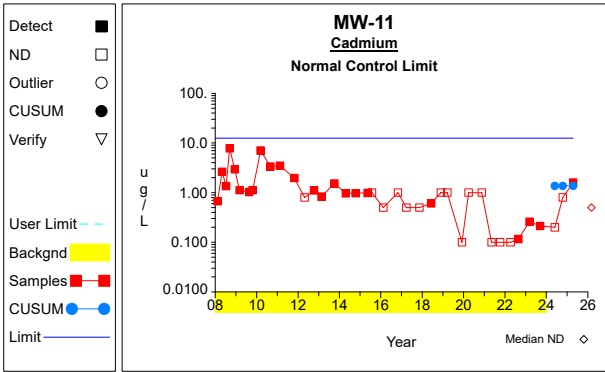
Graph 2



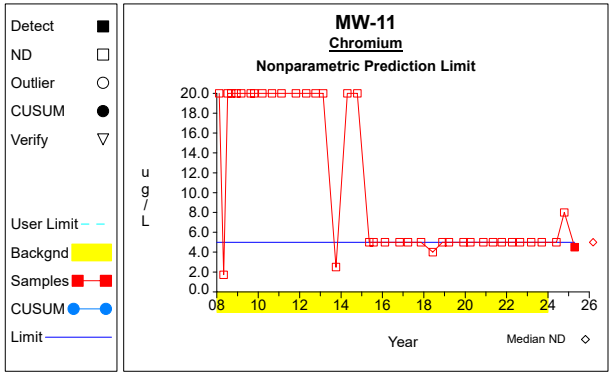
Graph 3



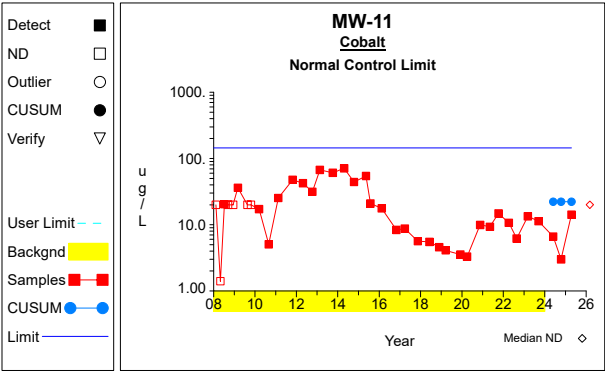
Graph 4



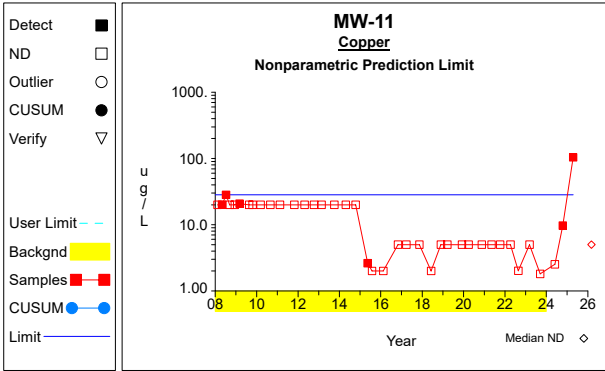
Graph 5



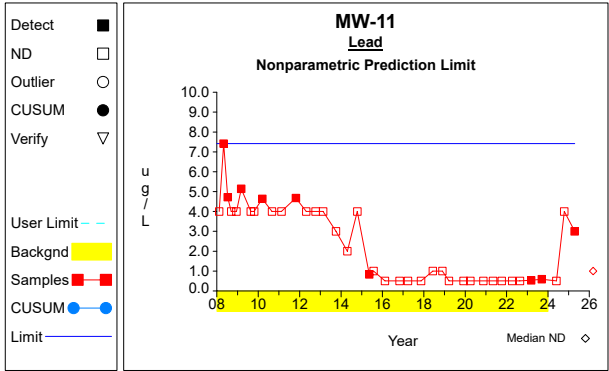
Graph 6



Graph 7

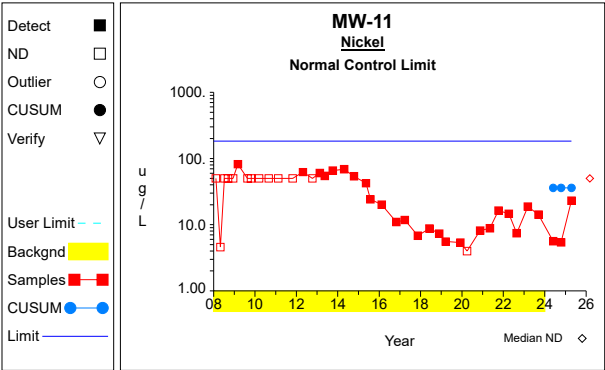


Graph 8

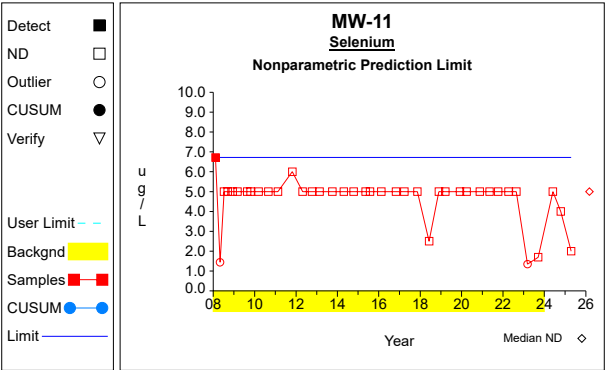


Graph 9

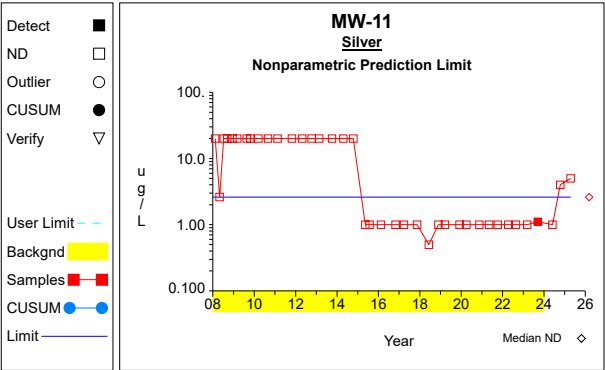
Intra-Well Control Charts / Prediction Limits



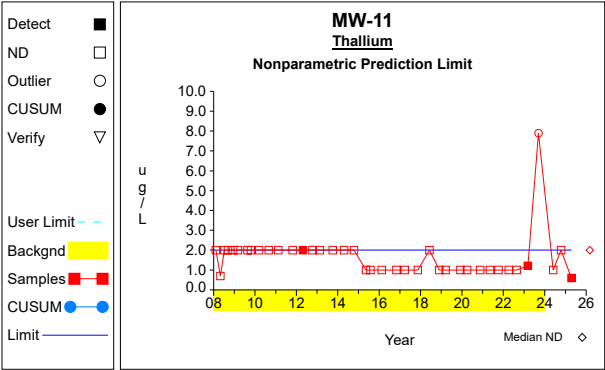
Graph 10



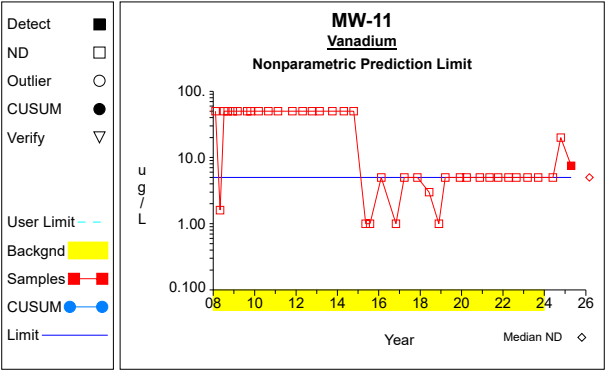
Graph 11



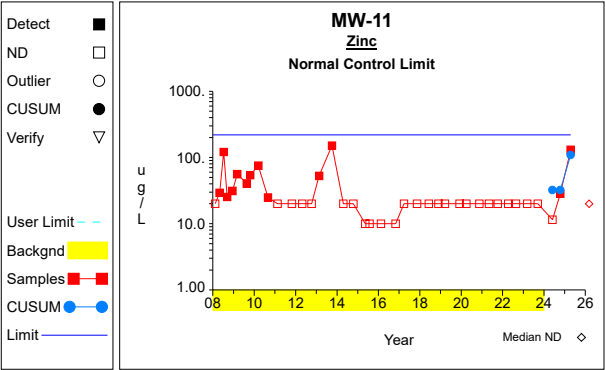
Graph 12



Graph 13

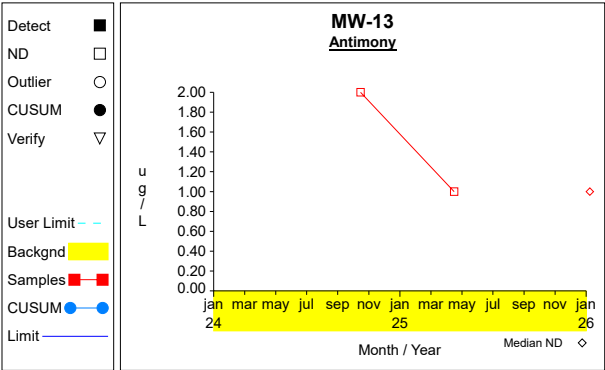


Graph 14

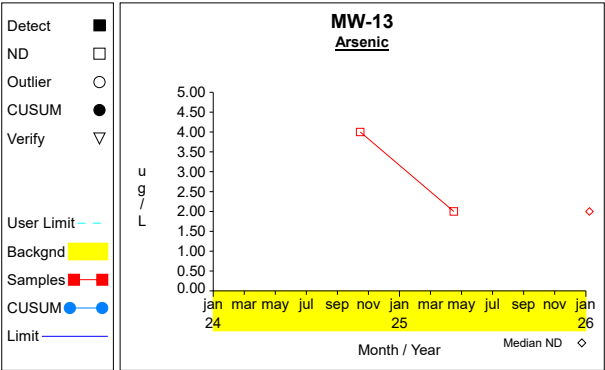


Graph 15

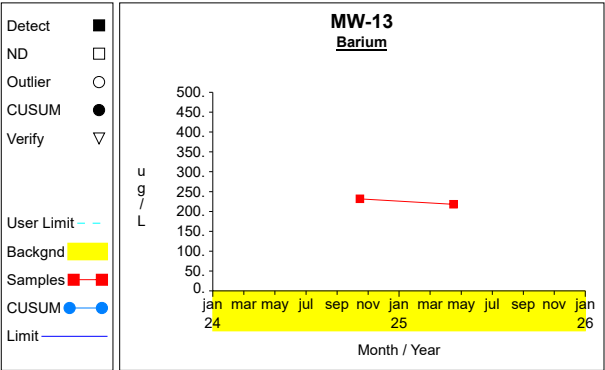
Intra-Well Control Charts / Prediction Limits



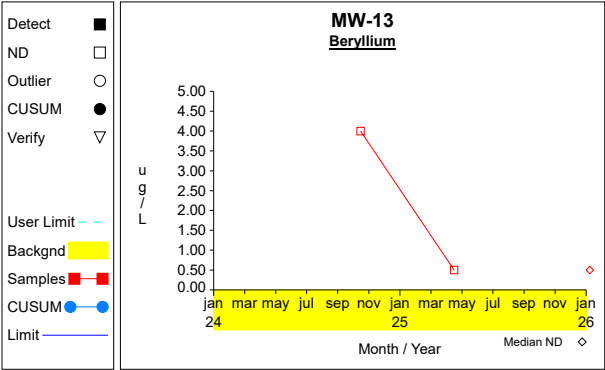
Graph 16



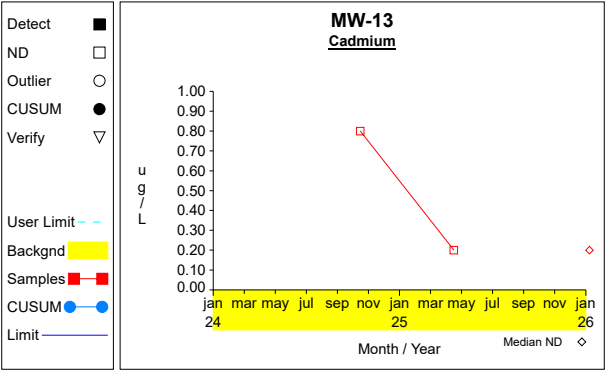
Graph 17



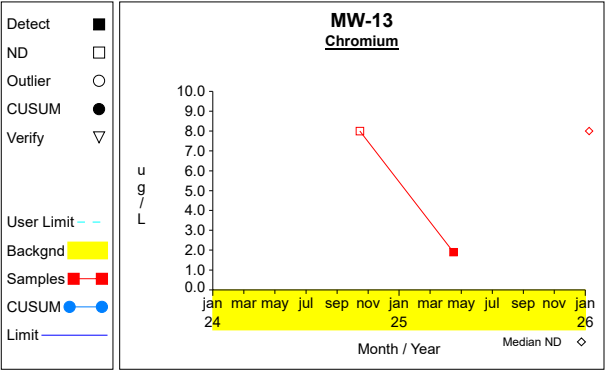
Graph 18



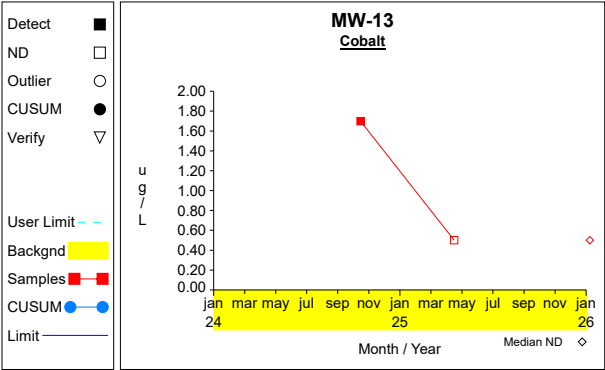
Graph 19



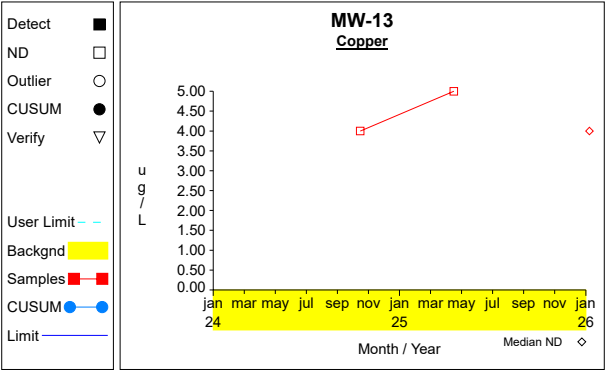
Graph 20



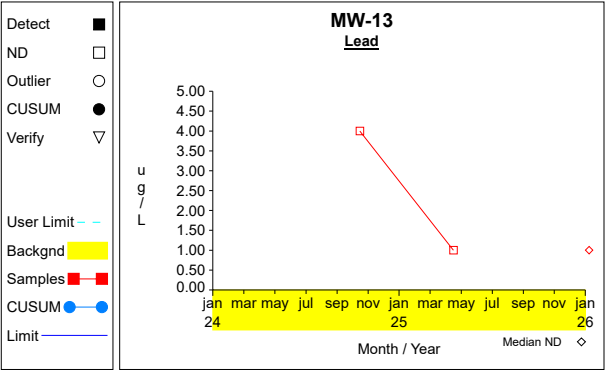
Graph 21



Graph 22

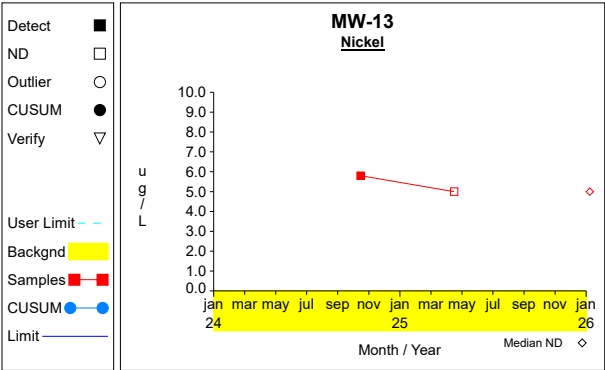


Graph 23

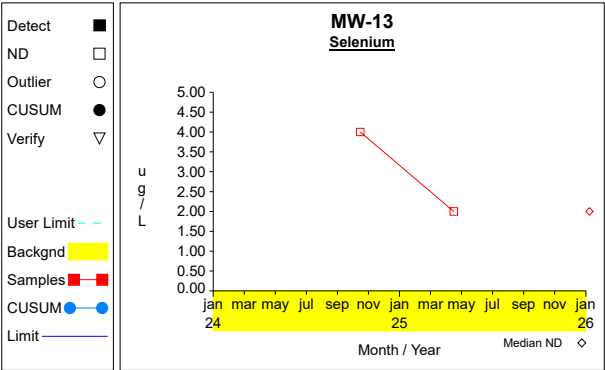


Graph 24

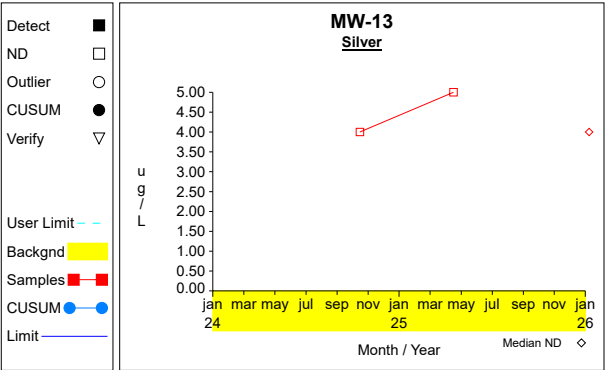
Intra-Well Control Charts / Prediction Limits



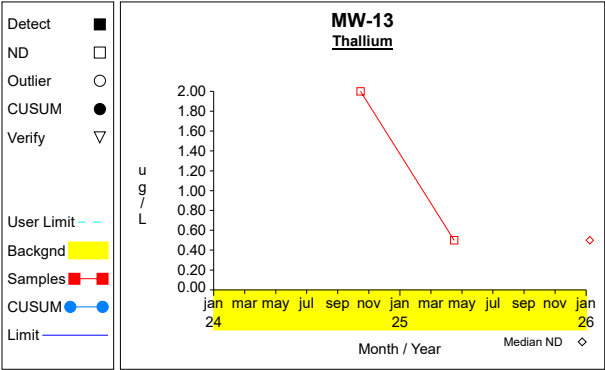
Graph 25



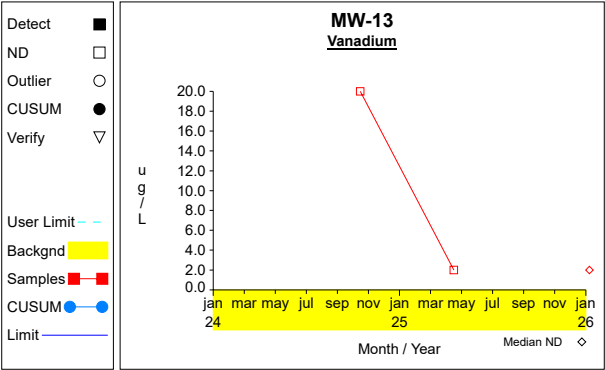
Graph 26



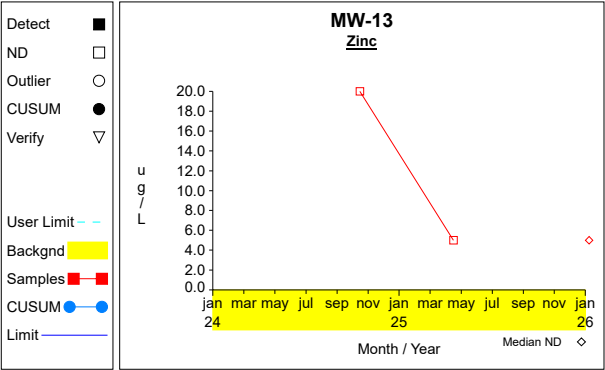
Graph 27



Graph 28

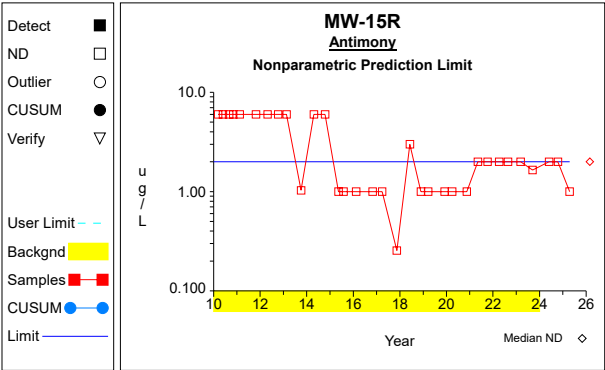


Graph 29

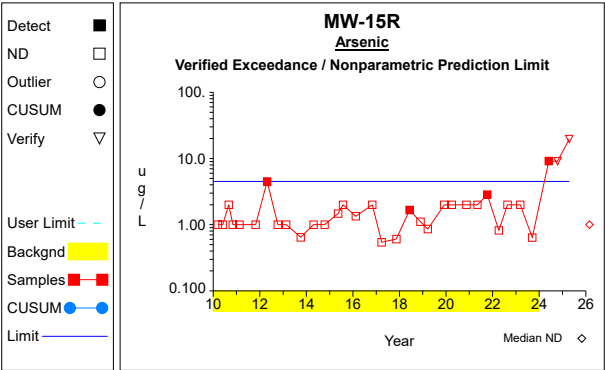


Graph 30

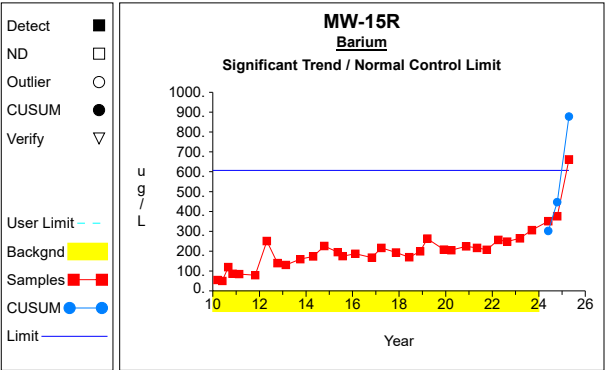
Intra-Well Control Charts / Prediction Limits



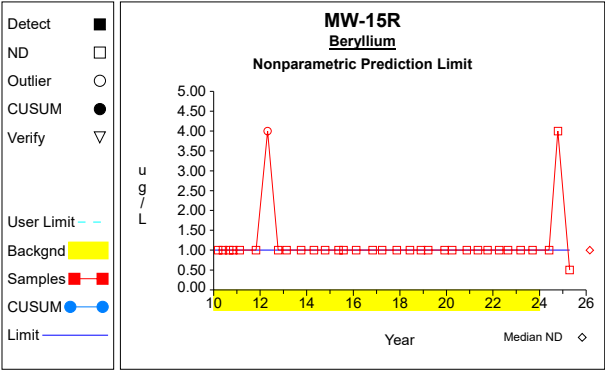
Graph 31



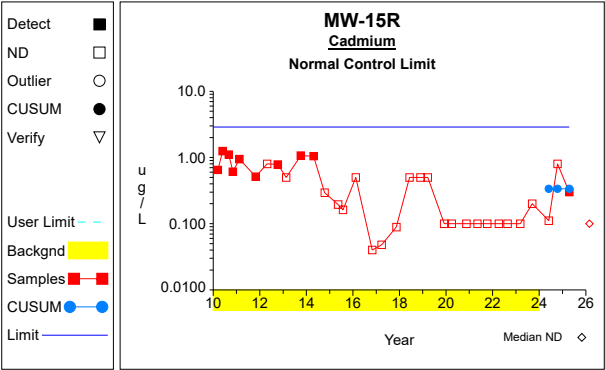
Graph 32



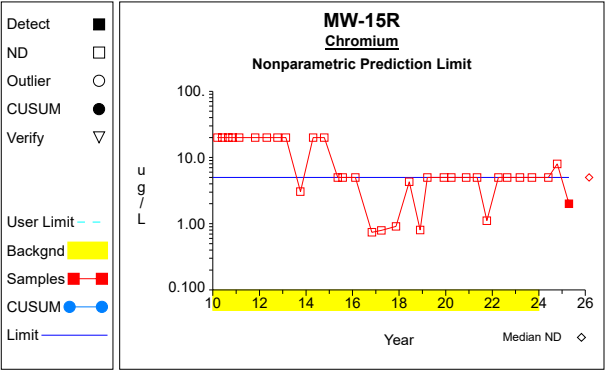
Graph 33



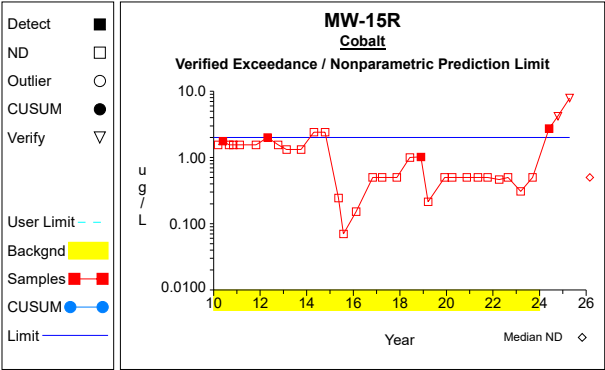
Graph 34



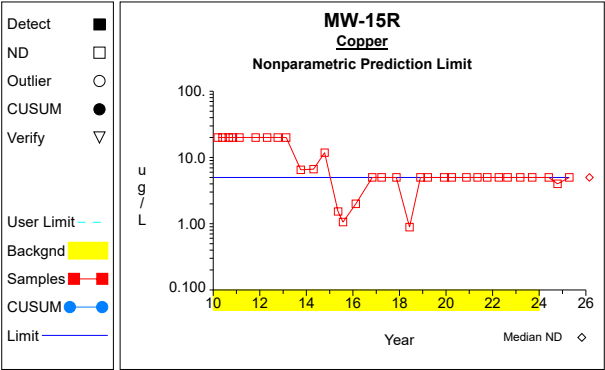
Graph 35



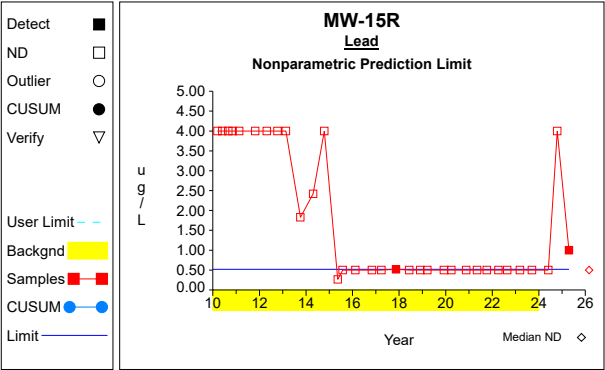
Graph 36



Graph 37

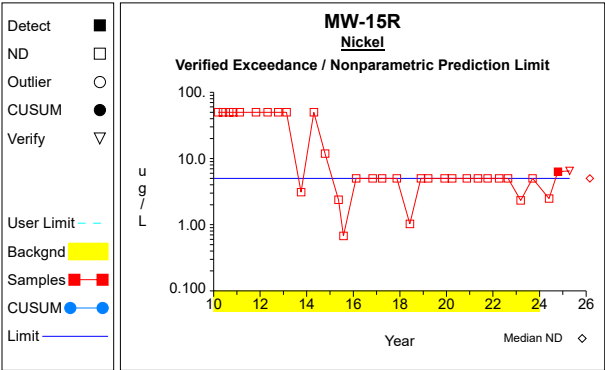


Graph 38

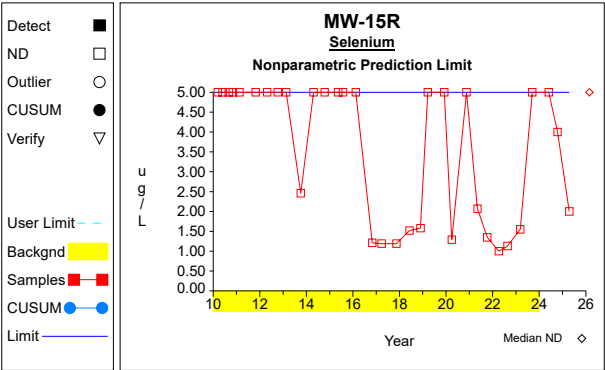


Graph 39

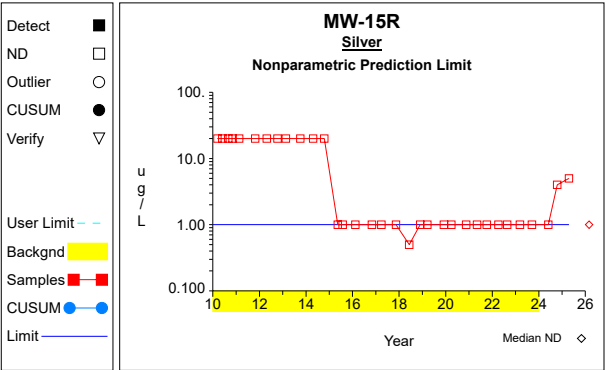
Intra-Well Control Charts / Prediction Limits



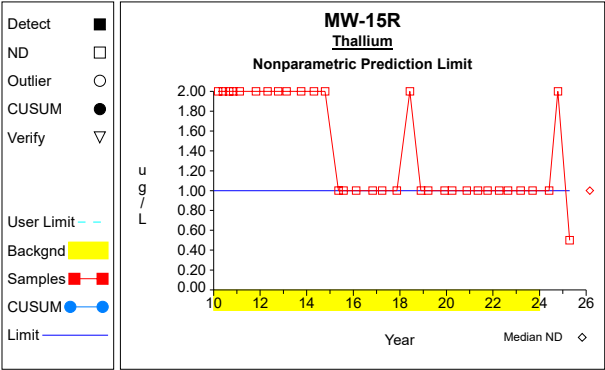
Graph 40



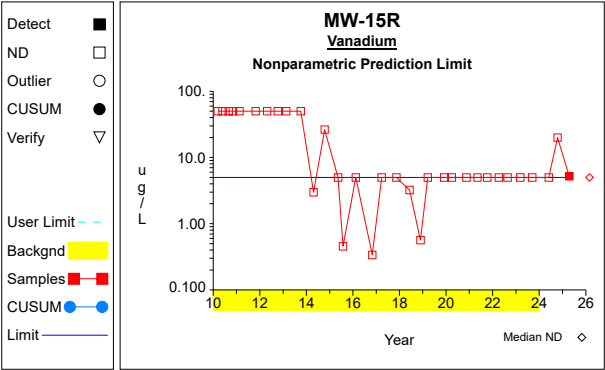
Graph 41



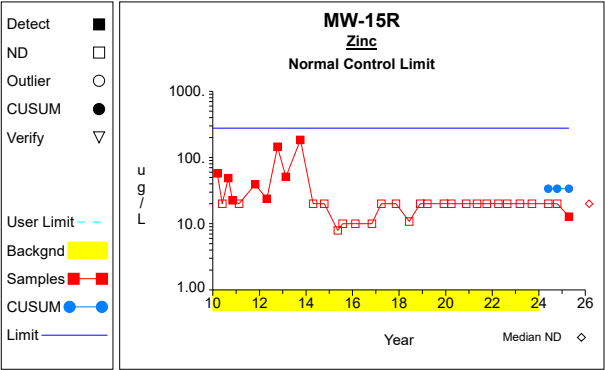
Graph 42



Graph 43

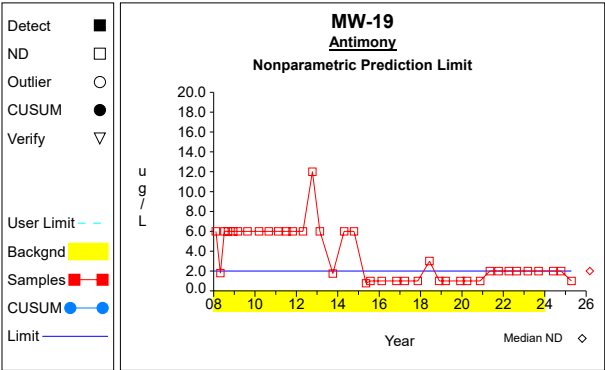


Graph 44

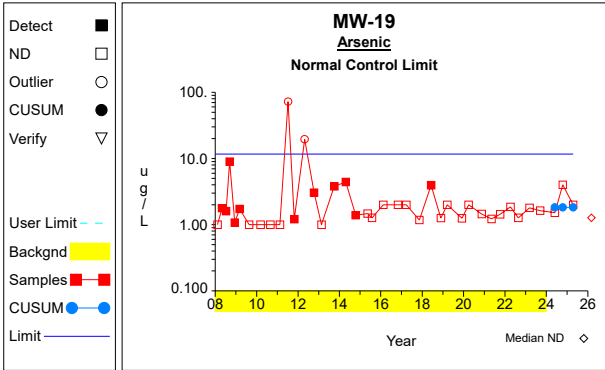


Graph 45

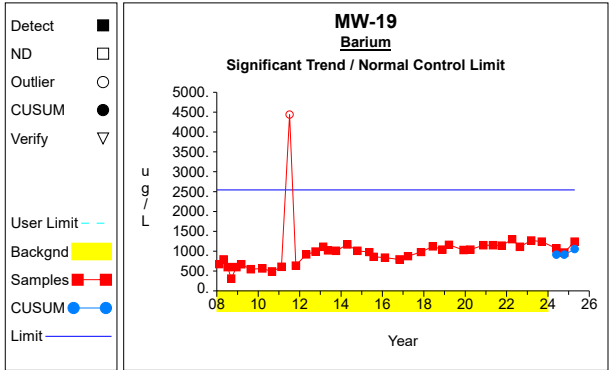
Intra-Well Control Charts / Prediction Limits



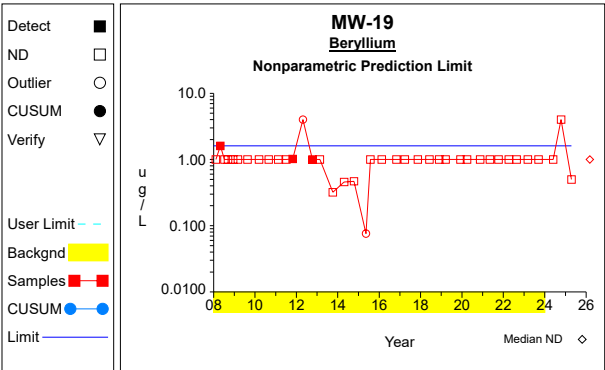
Graph 46



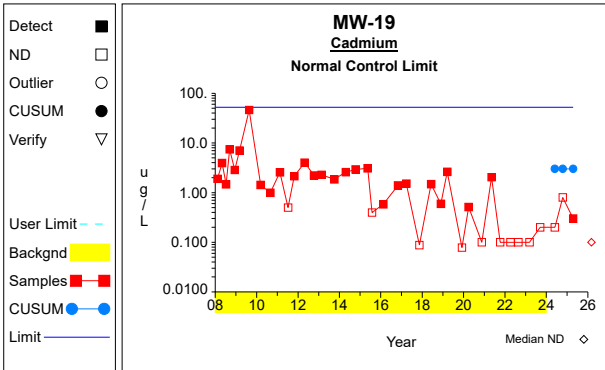
Graph 47



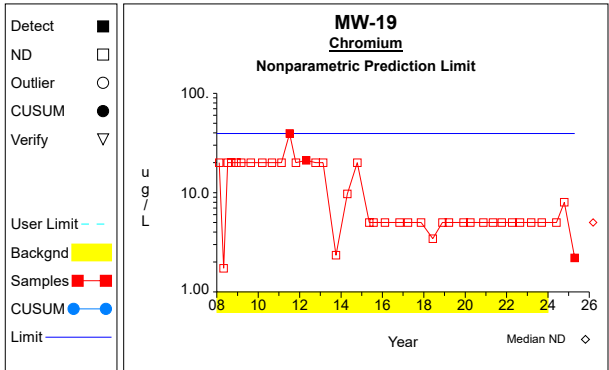
Graph 48



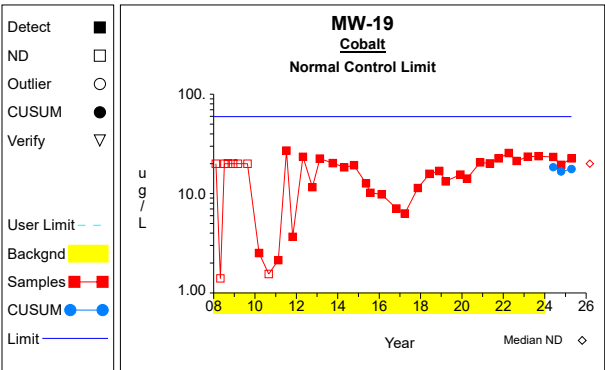
Graph 49



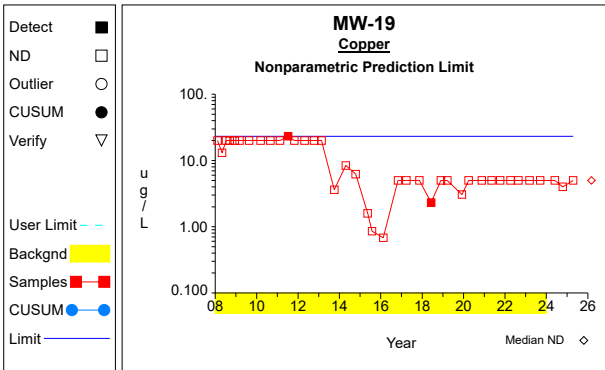
Graph 50



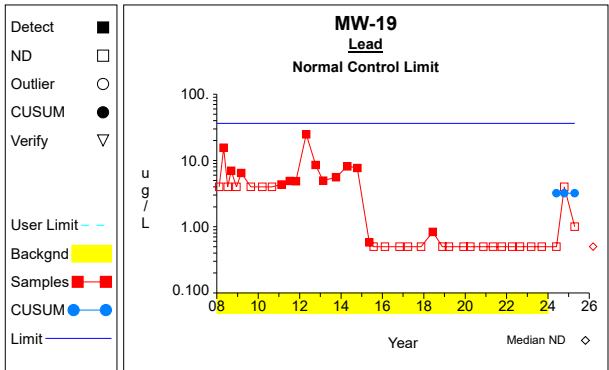
Graph 51



Graph 52

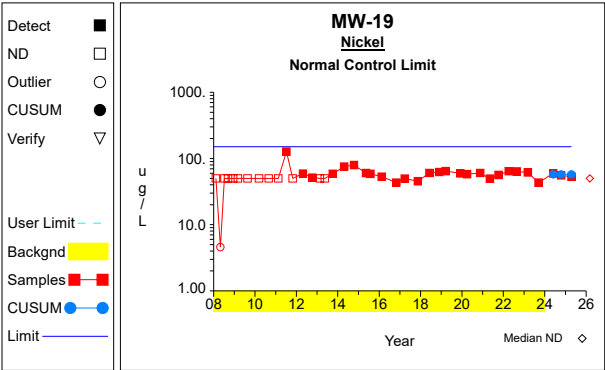


Graph 53

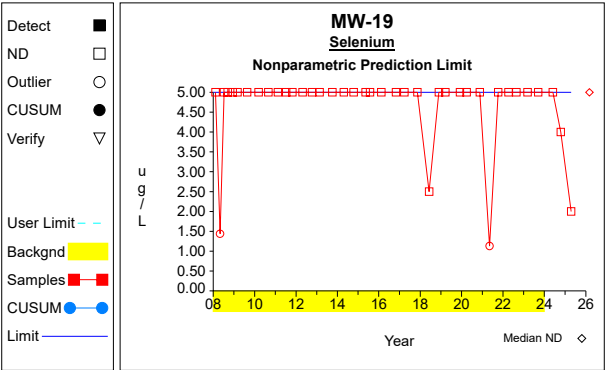


Graph 54

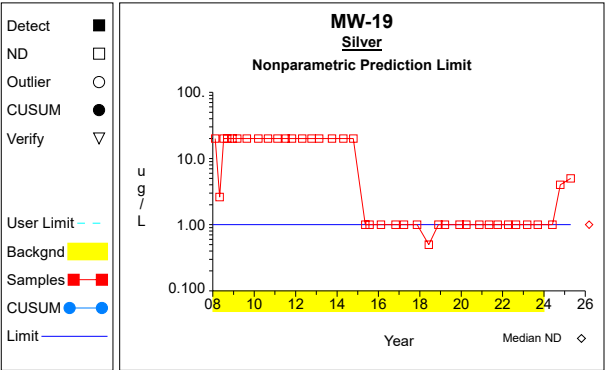
Intra-Well Control Charts / Prediction Limits



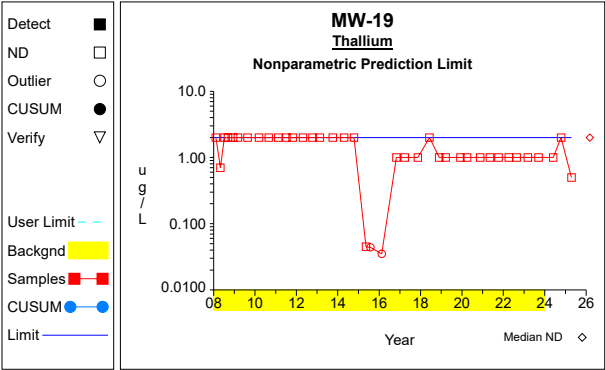
Graph 55



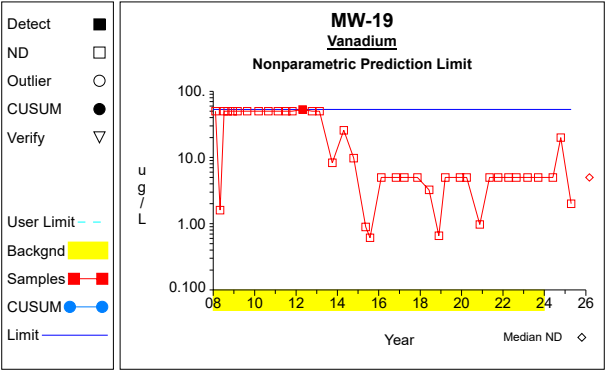
Graph 56



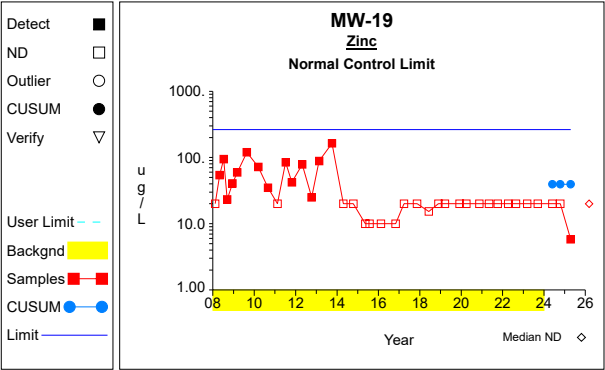
Graph 57



Graph 58

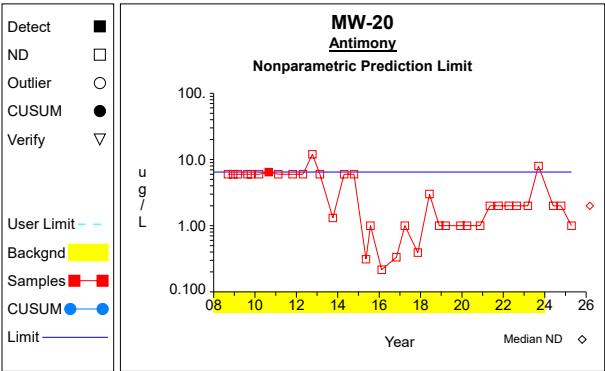


Graph 59

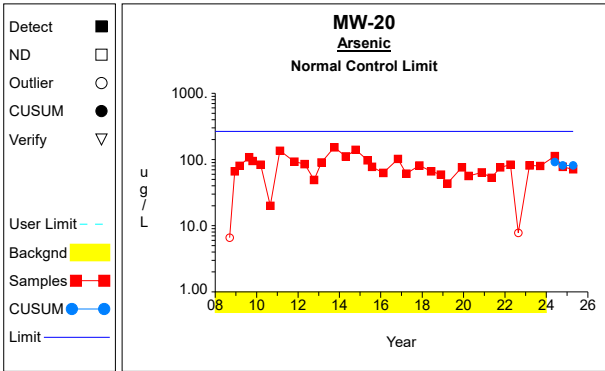


Graph 60

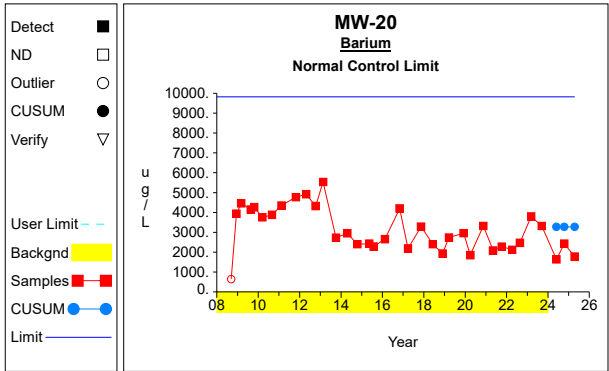
Intra-Well Control Charts / Prediction Limits



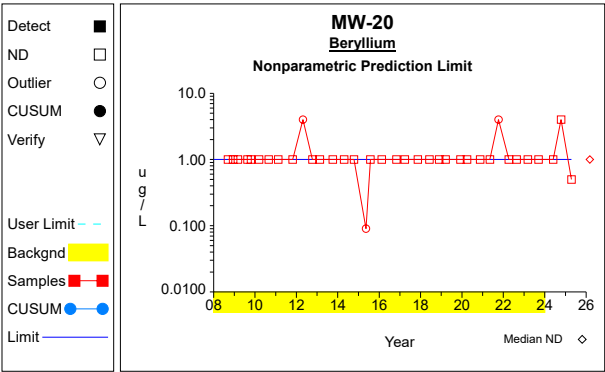
Graph 61



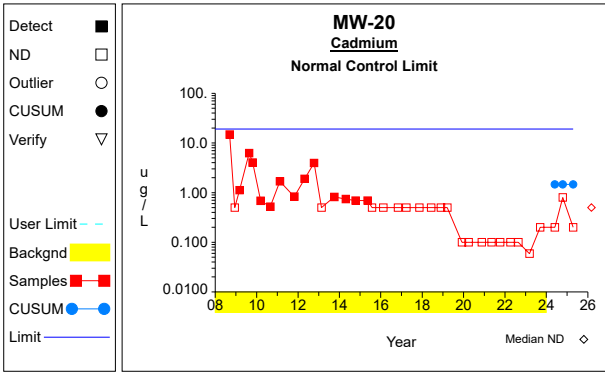
Graph 62



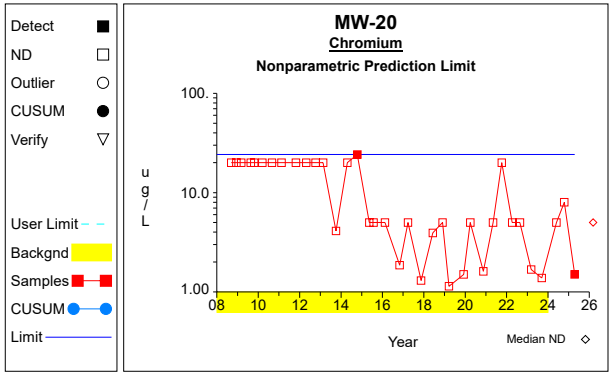
Graph 63



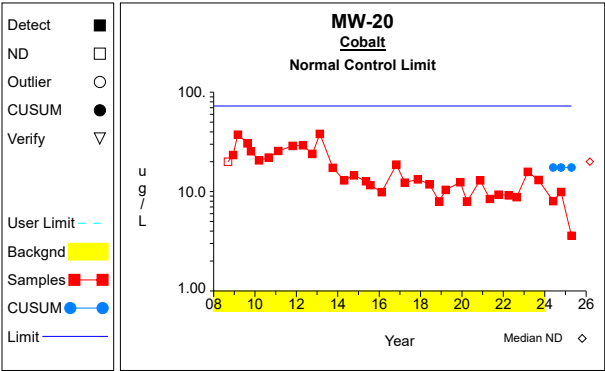
Graph 64



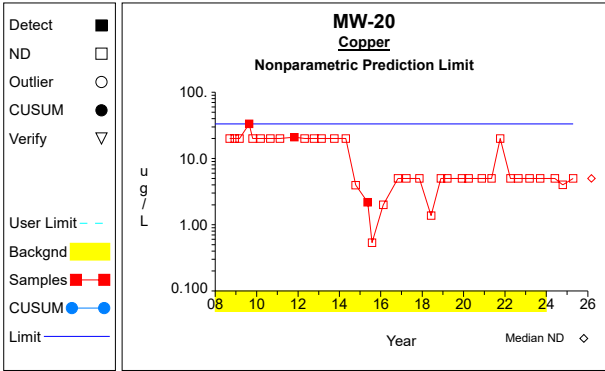
Graph 65



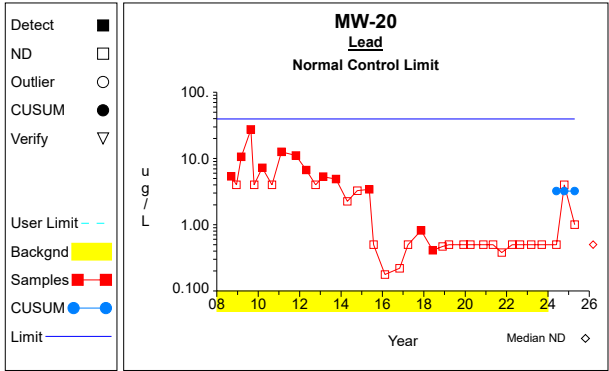
Graph 66



Graph 67

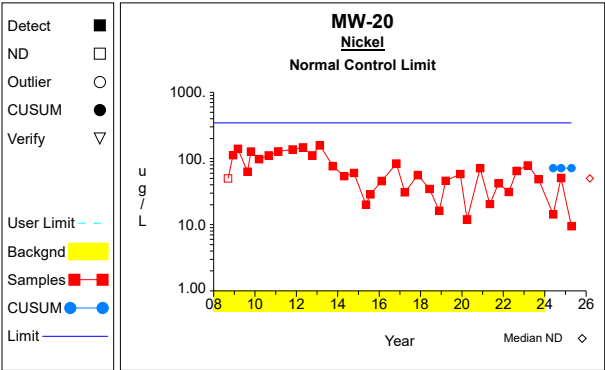


Graph 68

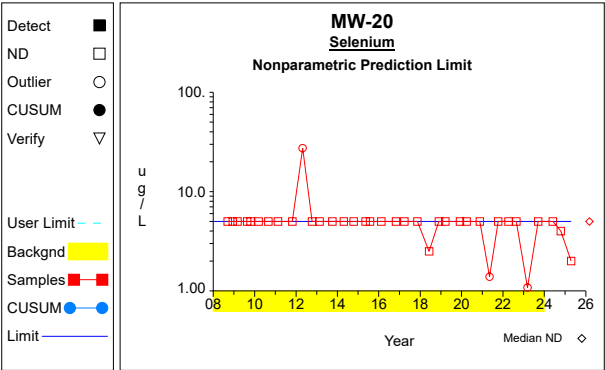


Graph 69

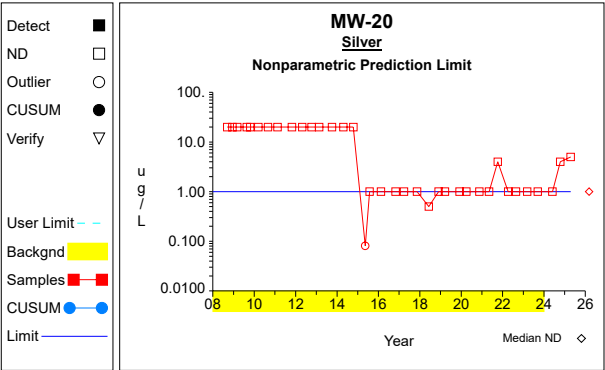
Intra-Well Control Charts / Prediction Limits



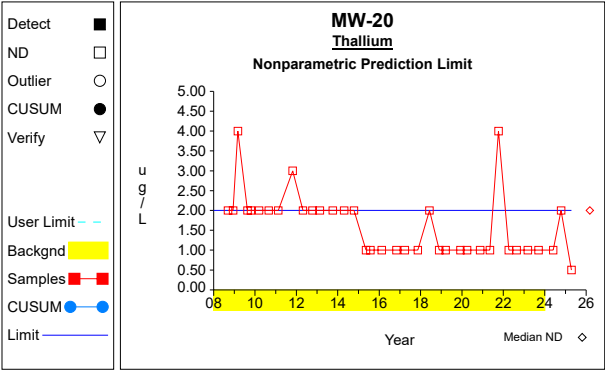
Graph 70



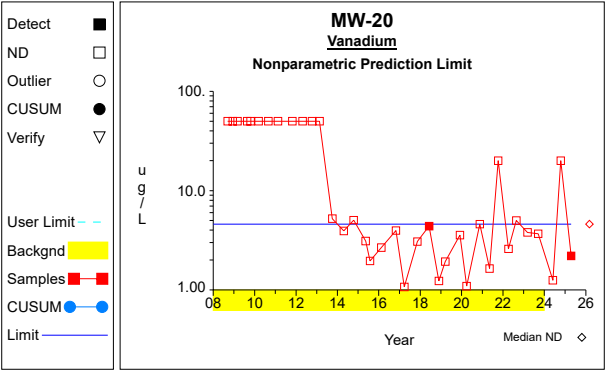
Graph 71



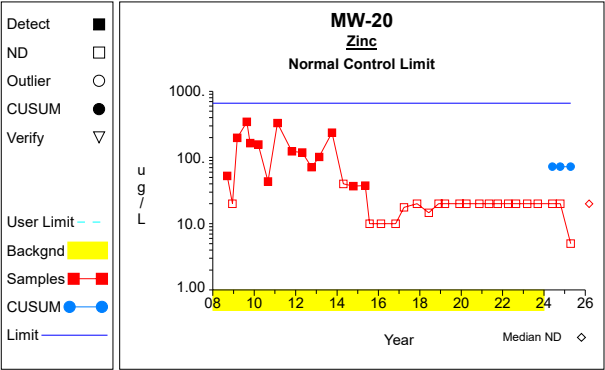
Graph 72



Graph 73

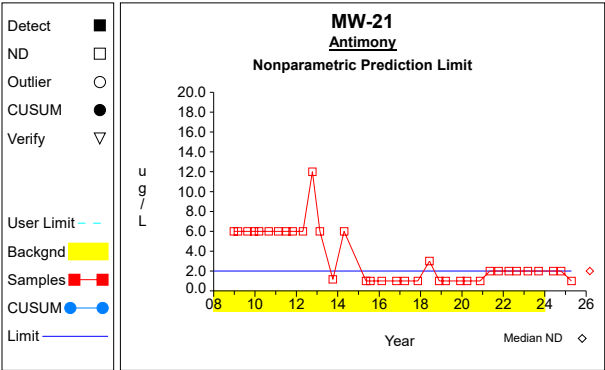


Graph 74

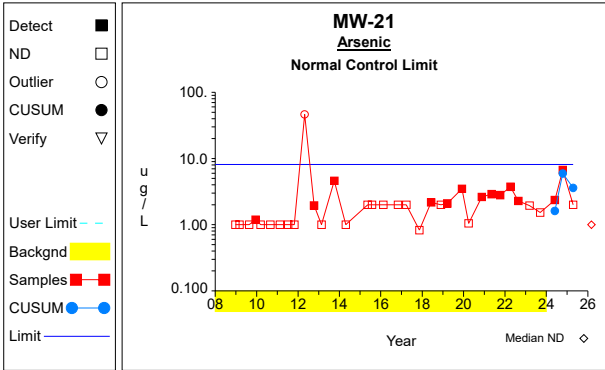


Graph 75

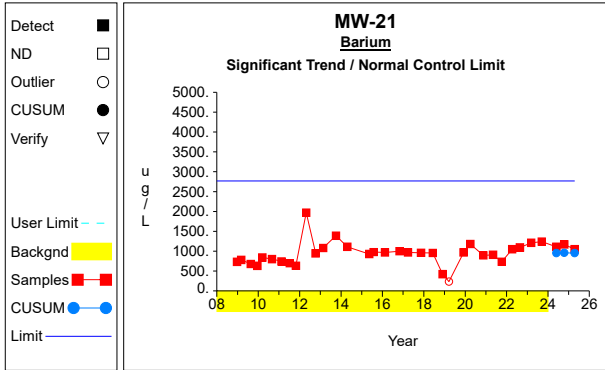
Intra-Well Control Charts / Prediction Limits



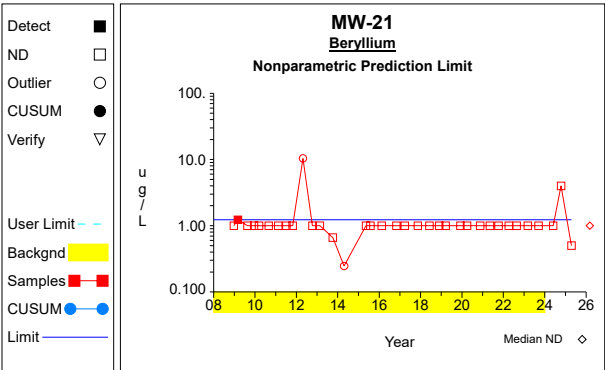
Graph 76



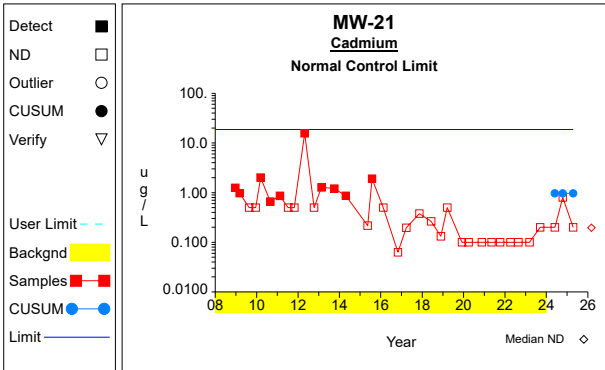
Graph 77



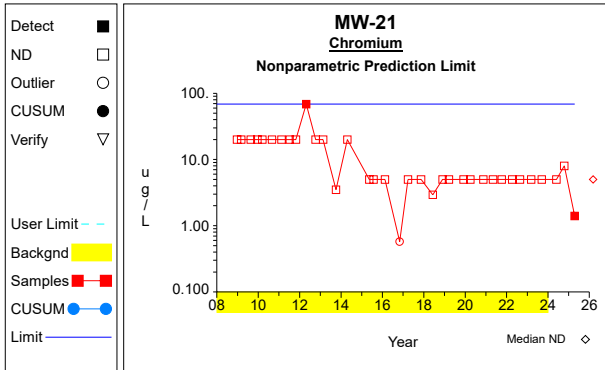
Graph 78



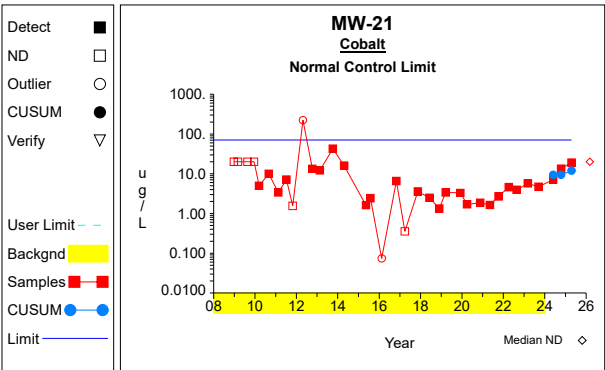
Graph 79



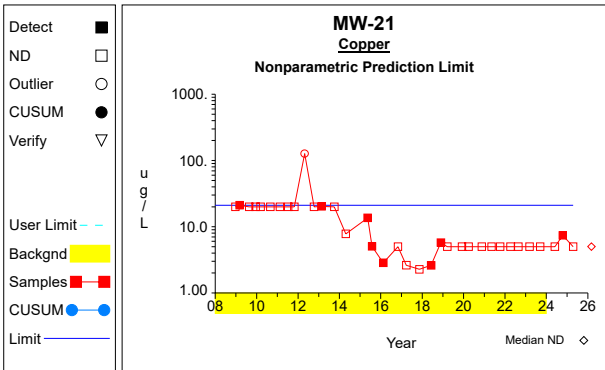
Graph 80



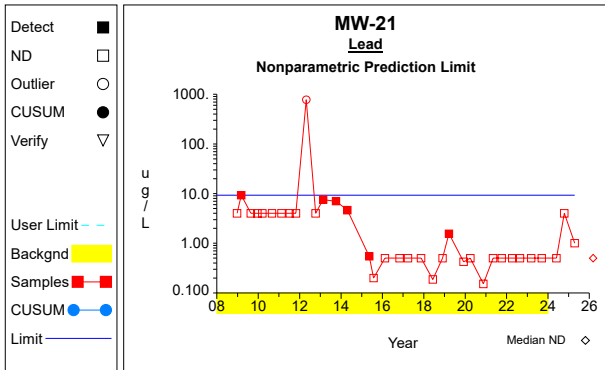
Graph 81



Graph 82

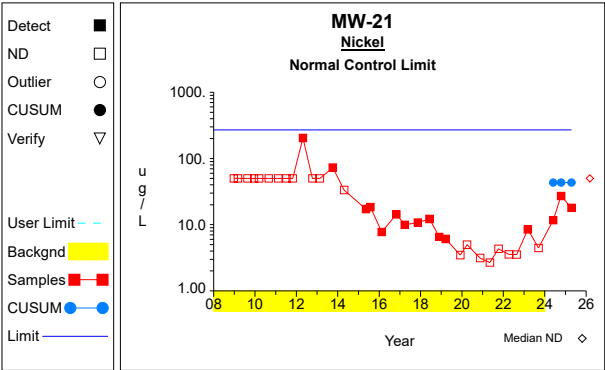


Graph 83

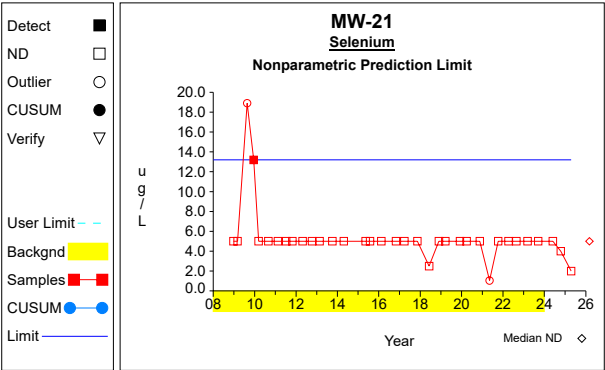


Graph 84

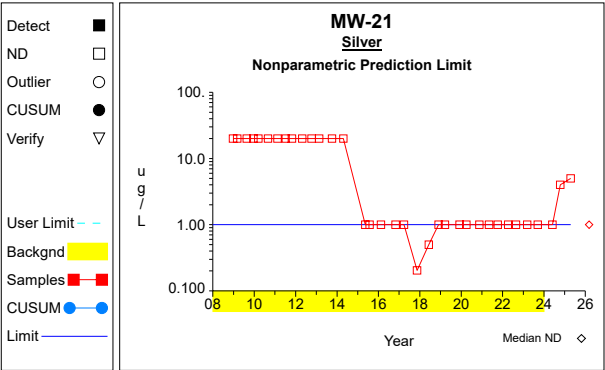
Intra-Well Control Charts / Prediction Limits



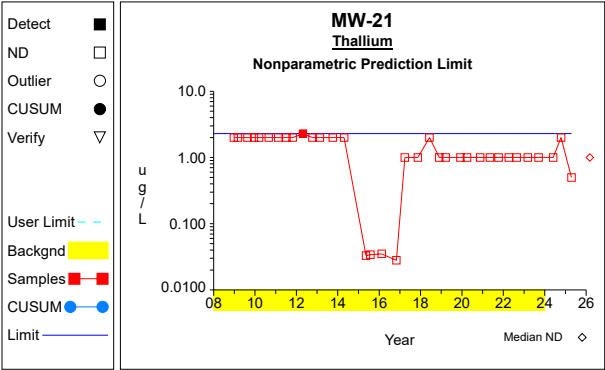
Graph 85



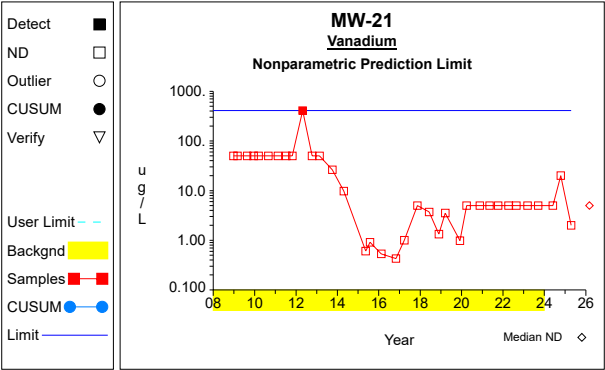
Graph 86



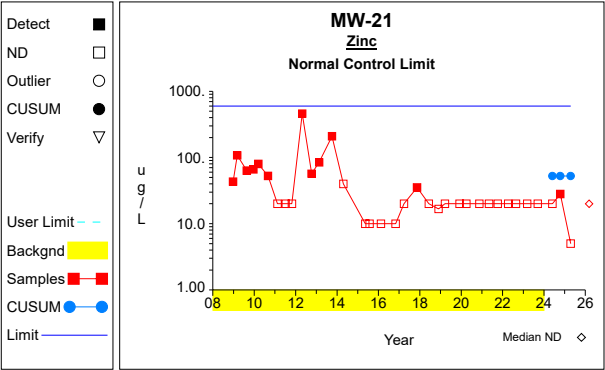
Graph 87



Graph 88

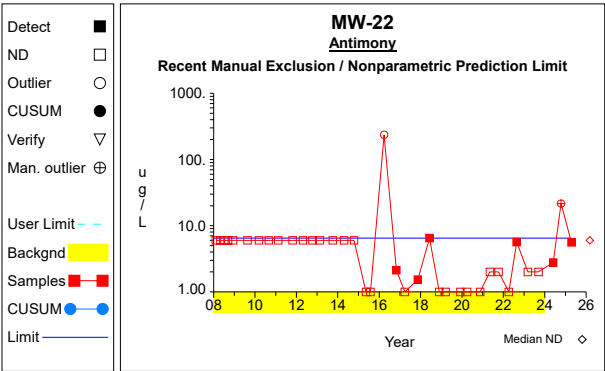


Graph 89

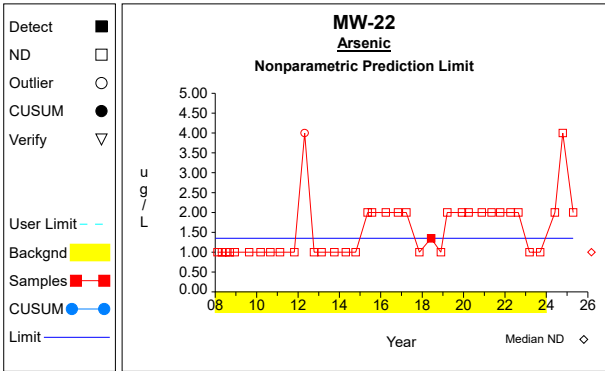


Graph 90

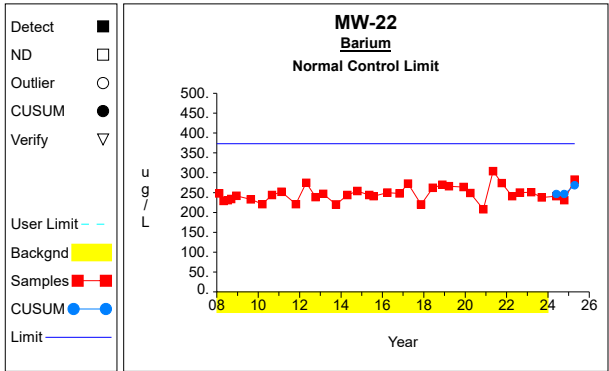
Intra-Well Control Charts / Prediction Limits



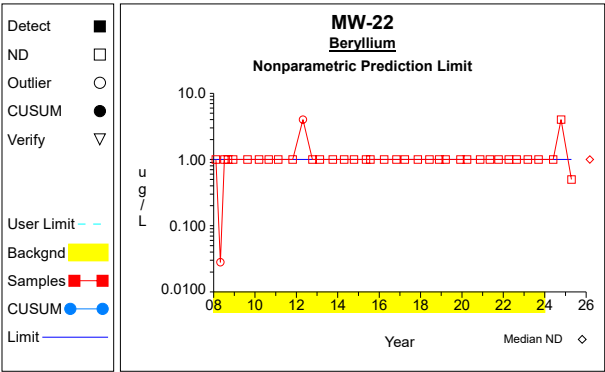
Graph 91



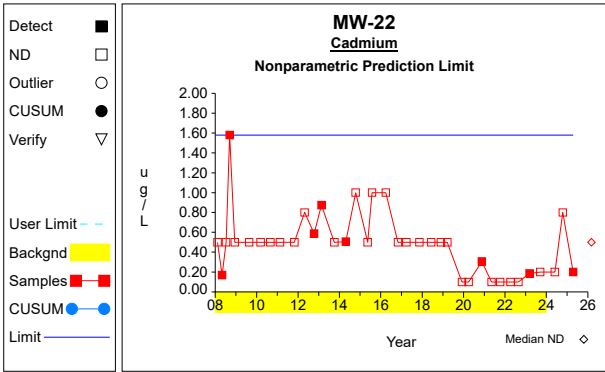
Graph 92



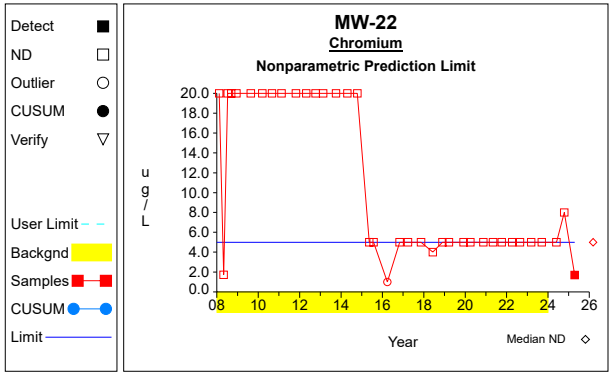
Graph 93



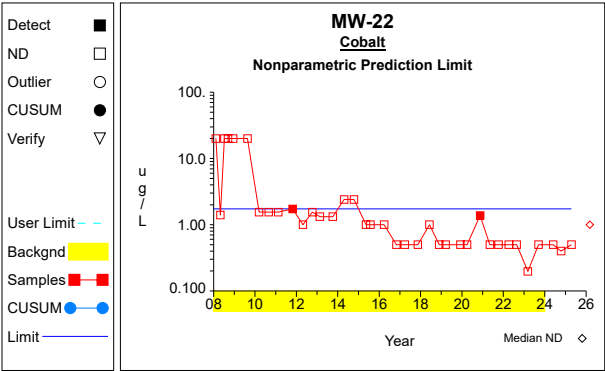
Graph 94



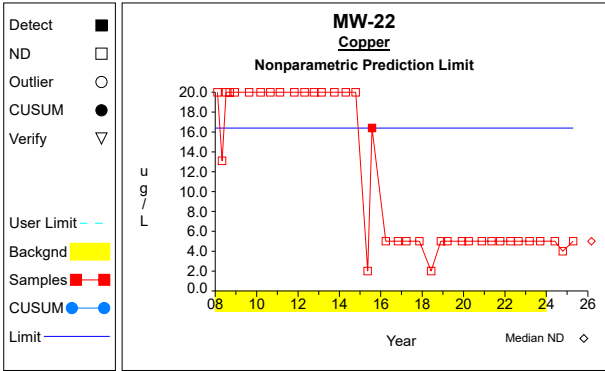
Graph 95



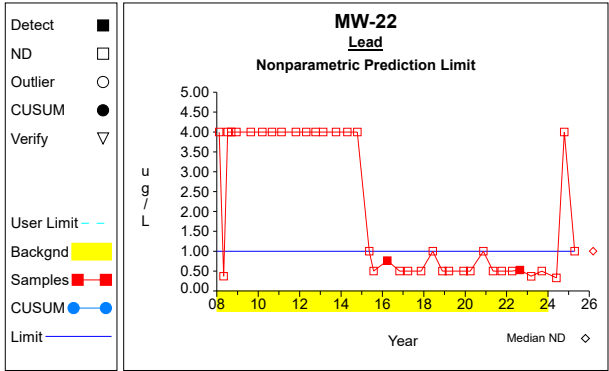
Graph 96



Graph 97

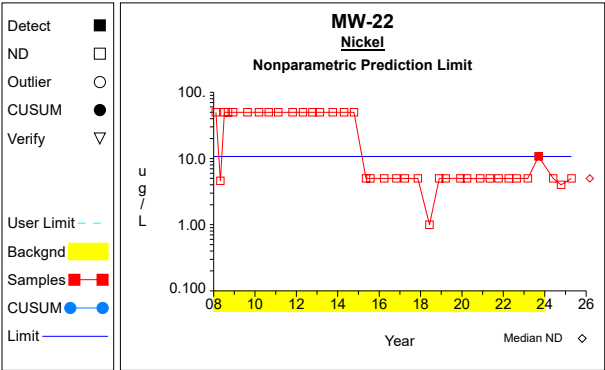


Graph 98

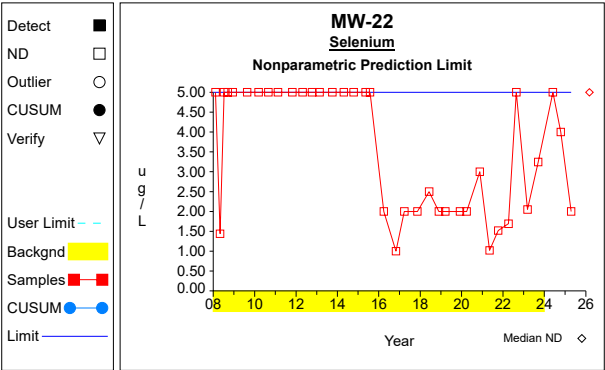


Graph 99

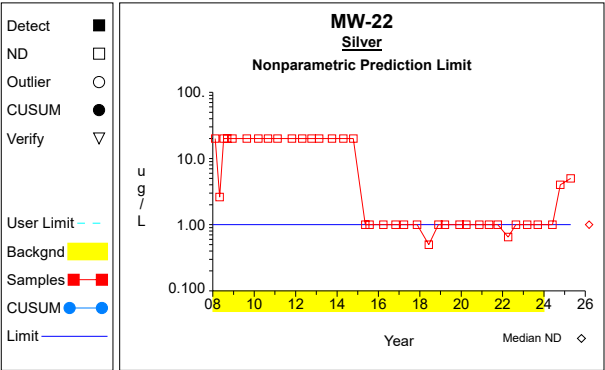
Intra-Well Control Charts / Prediction Limits



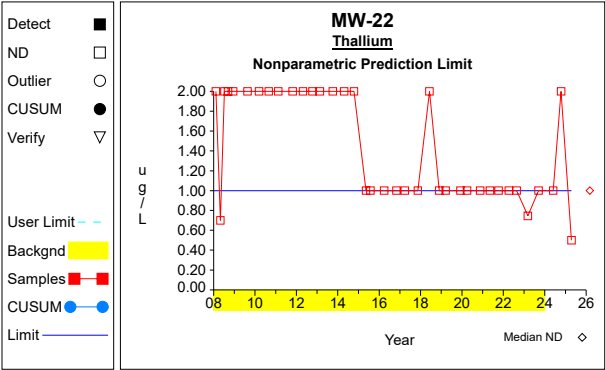
Graph 100



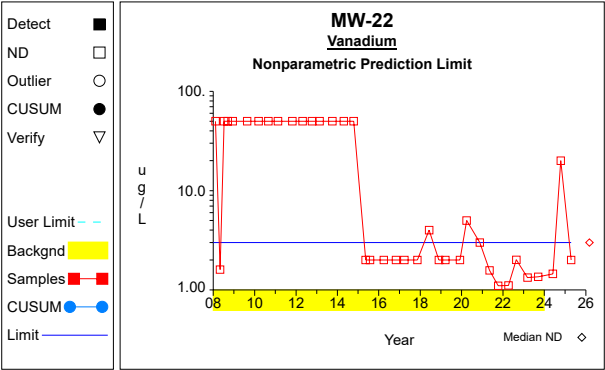
Graph 101



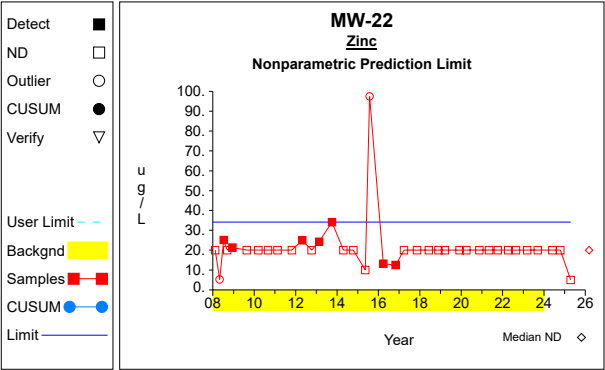
Graph 102



Graph 103

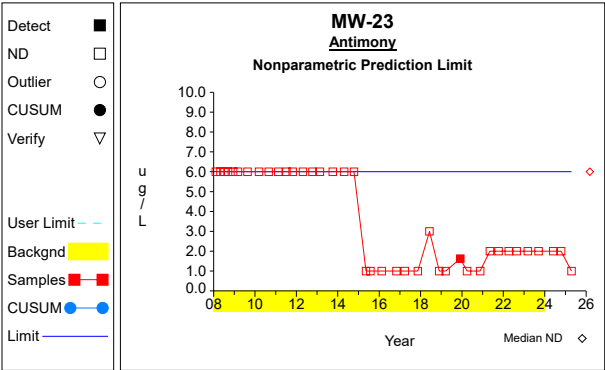


Graph 104

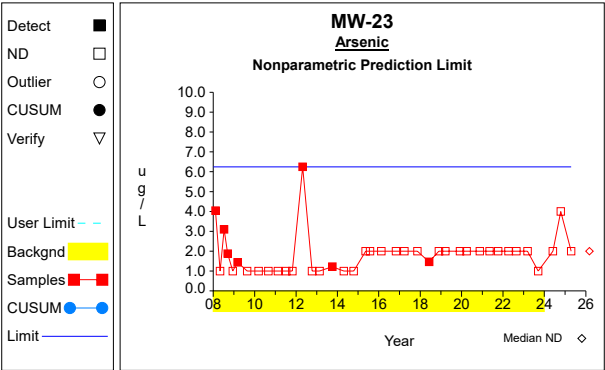


Graph 105

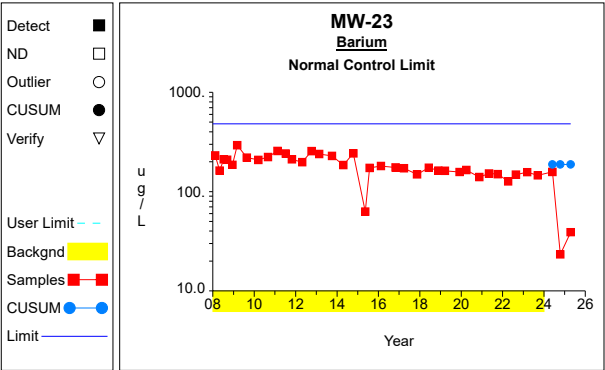
Intra-Well Control Charts / Prediction Limits



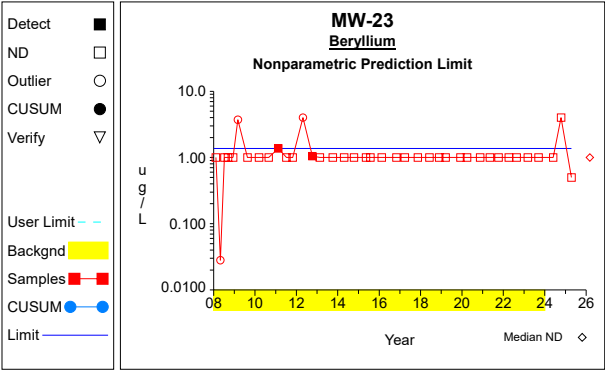
Graph 106



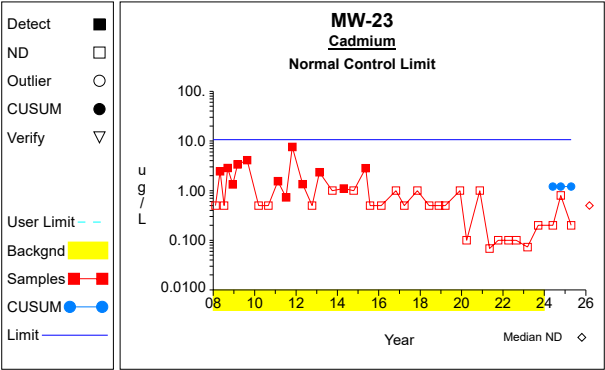
Graph 107



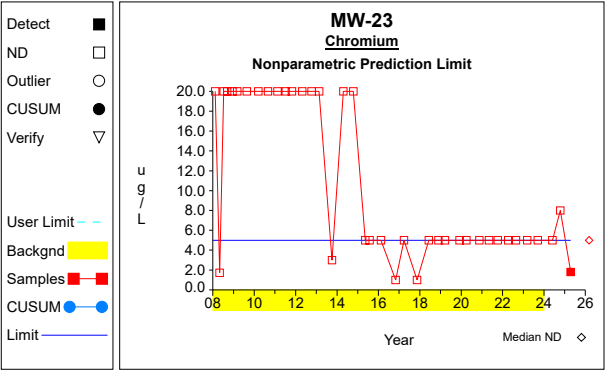
Graph 108



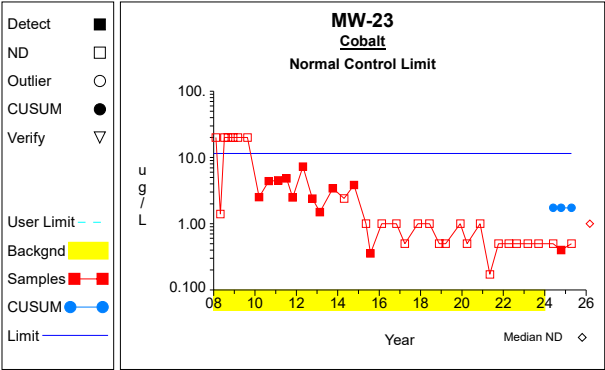
Graph 109



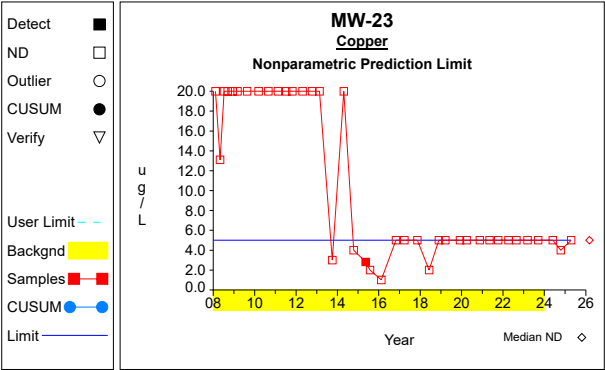
Graph 110



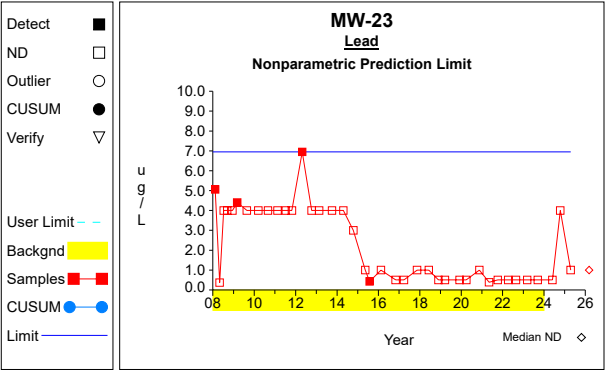
Graph 111



Graph 112

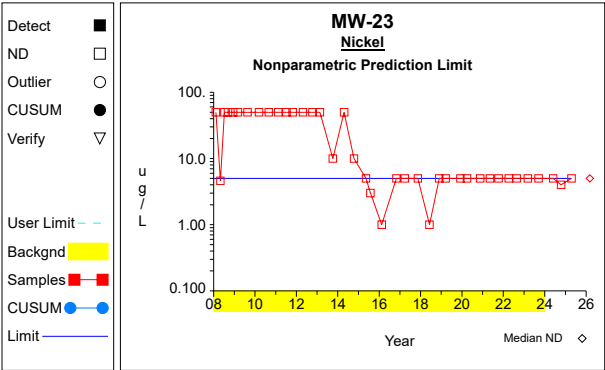


Graph 113

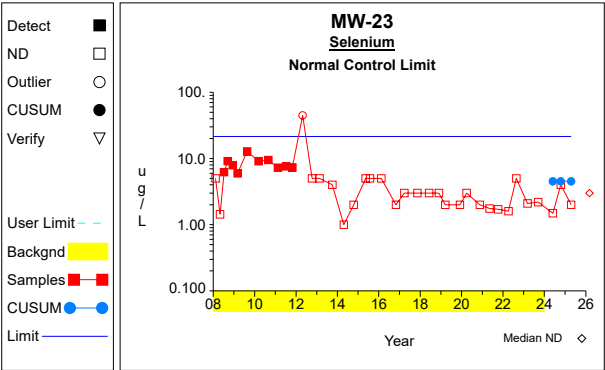


Graph 114

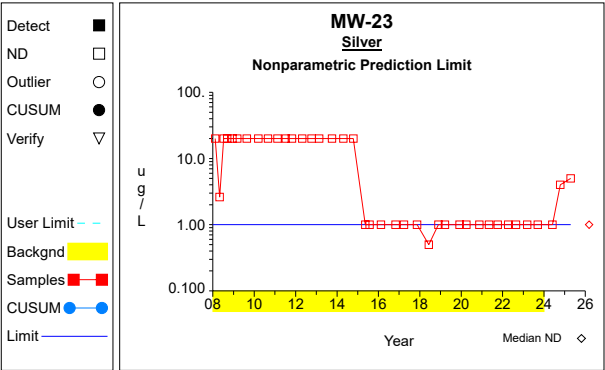
Intra-Well Control Charts / Prediction Limits



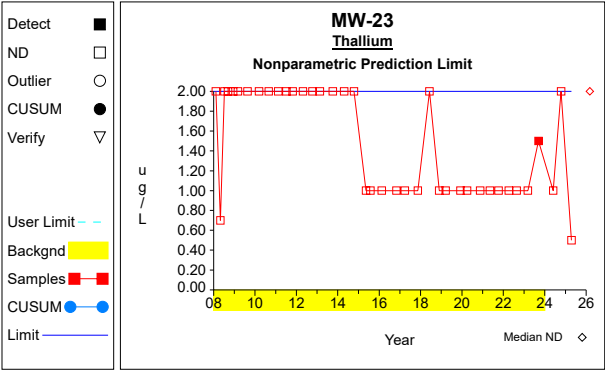
Graph 115



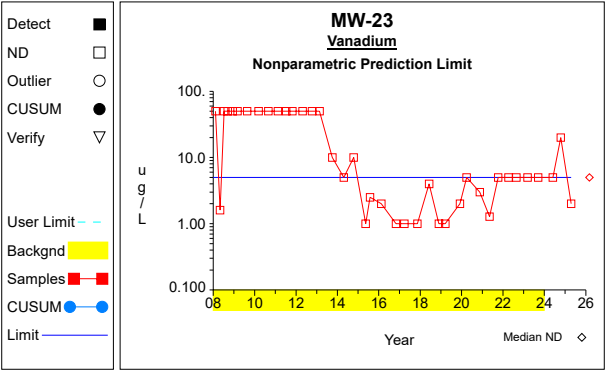
Graph 116



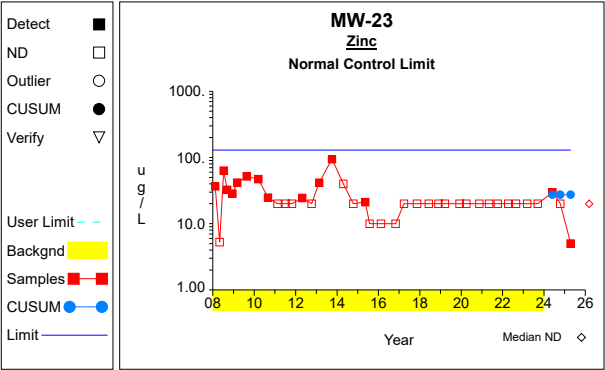
Graph 117



Graph 118

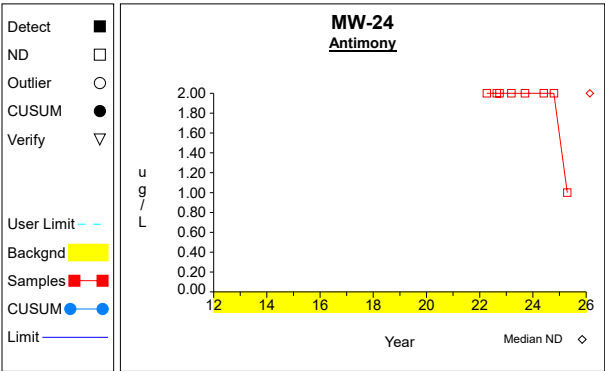


Graph 119

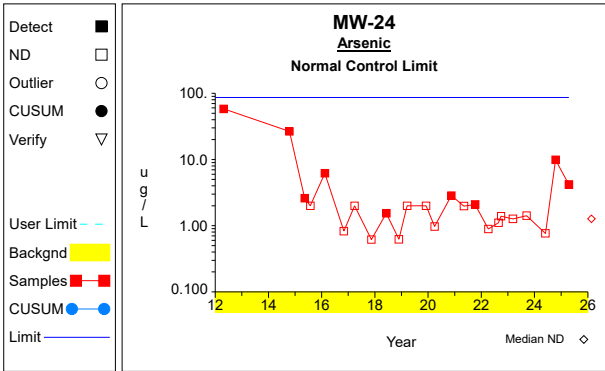


Graph 120

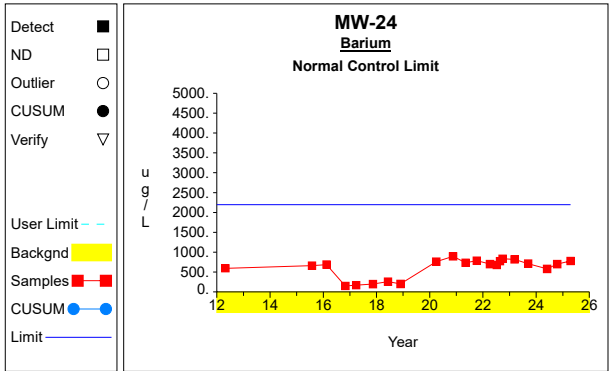
Intra-Well Control Charts / Prediction Limits



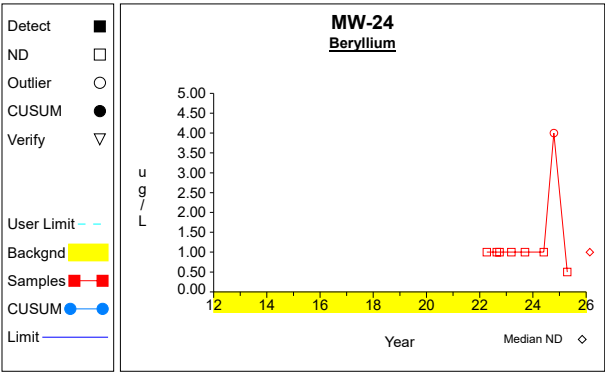
Graph 121



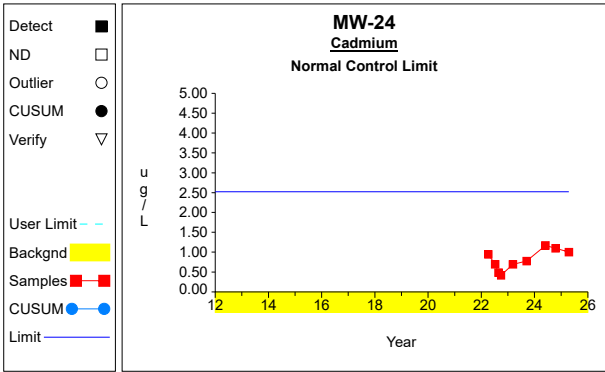
Graph 122



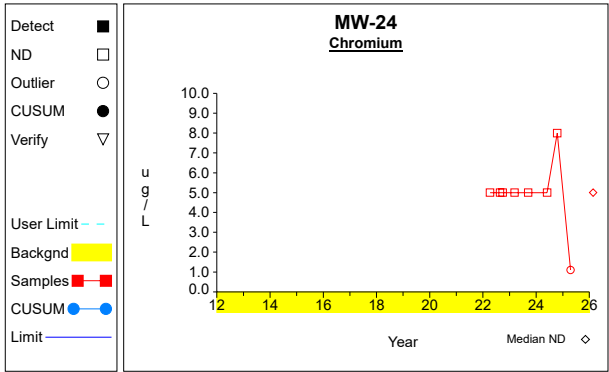
Graph 123



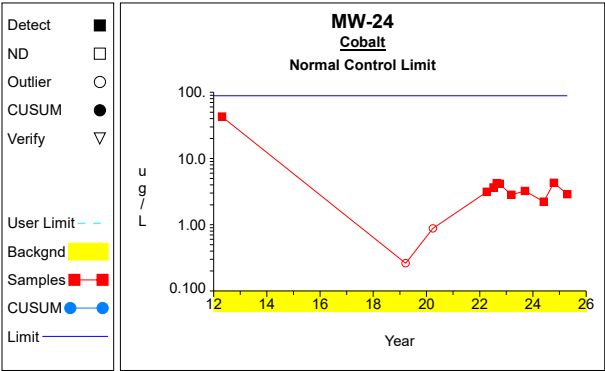
Graph 124



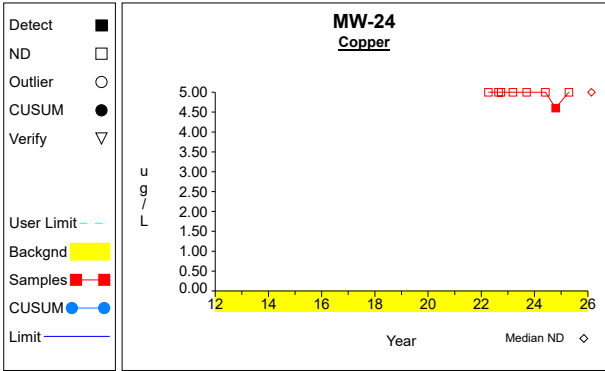
Graph 125



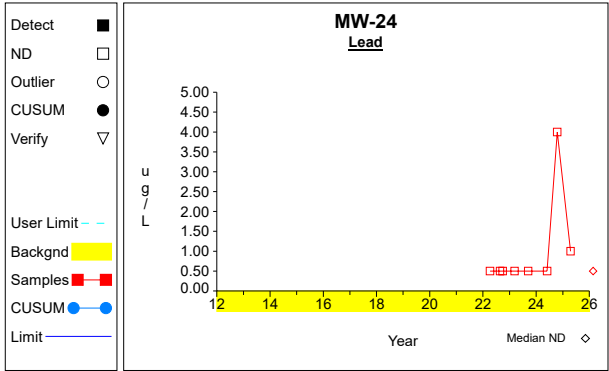
Graph 126



Graph 127

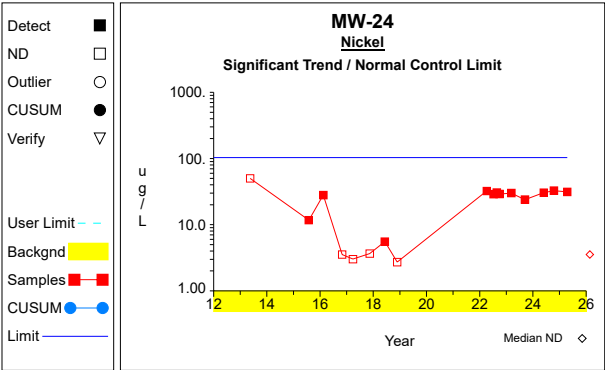


Graph 128

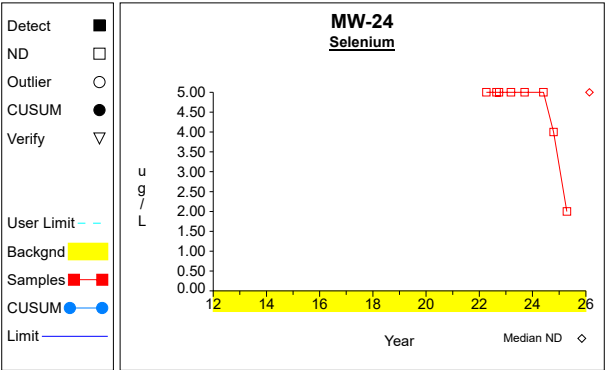


Graph 129

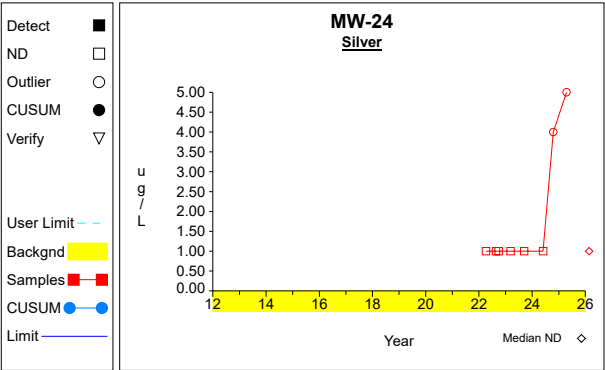
Intra-Well Control Charts / Prediction Limits



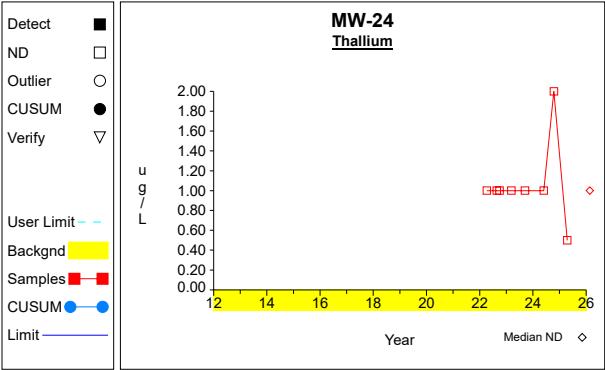
Graph 130



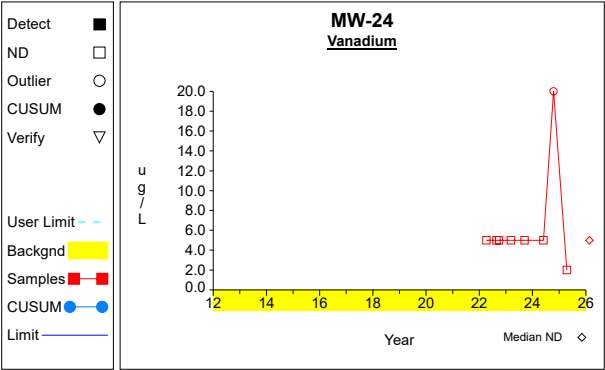
Graph 131



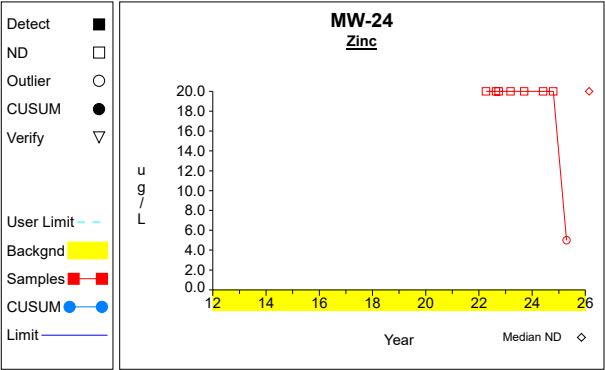
Graph 132



Graph 133

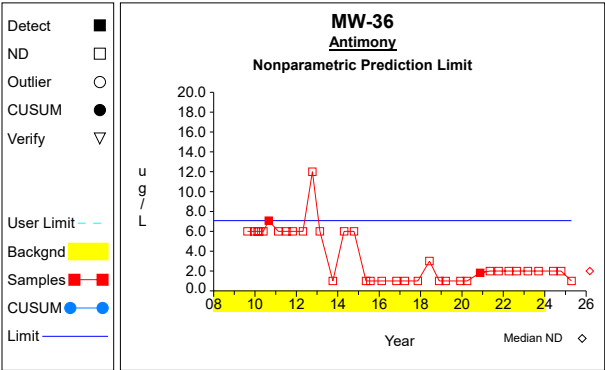


Graph 134

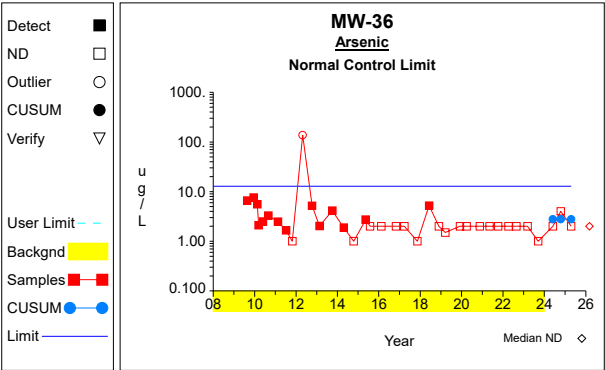


Graph 135

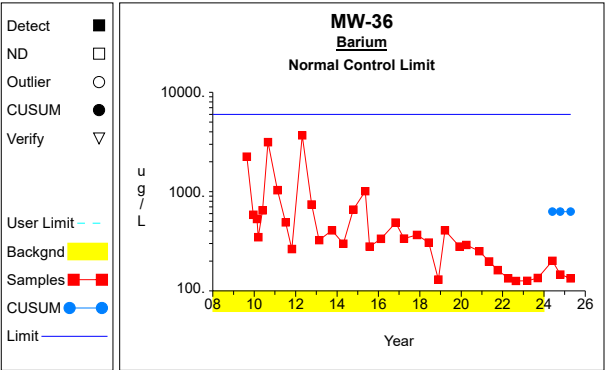
Intra-Well Control Charts / Prediction Limits



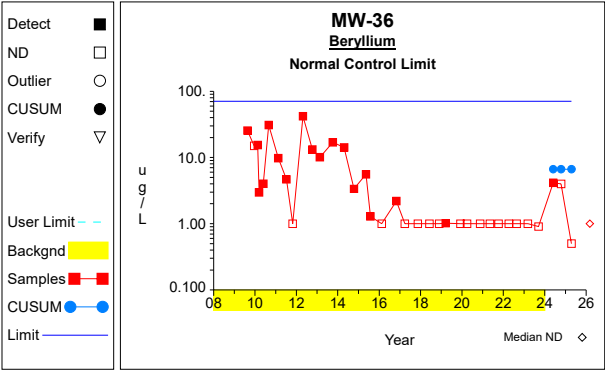
Graph 136



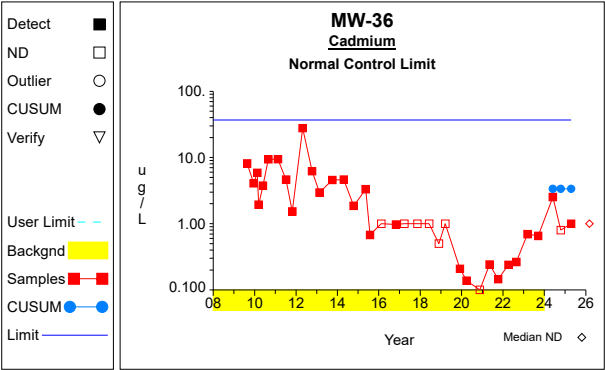
Graph 137



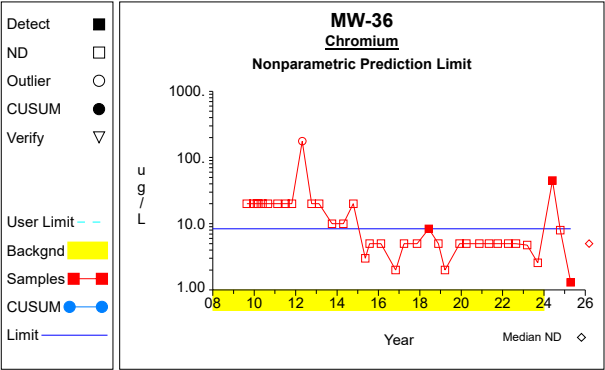
Graph 138



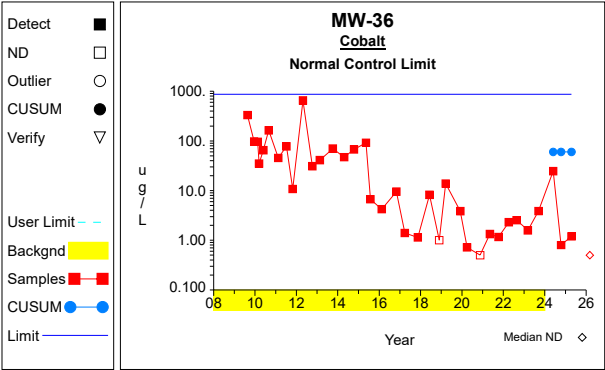
Graph 139



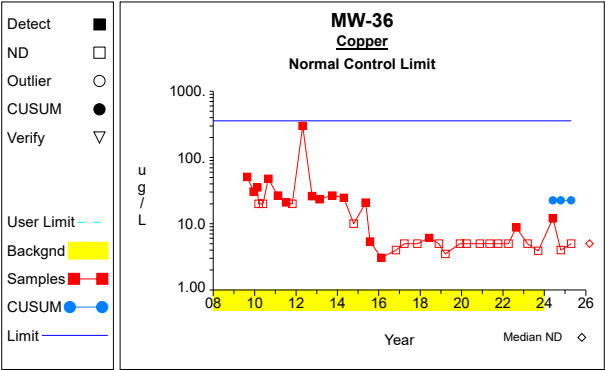
Graph 140



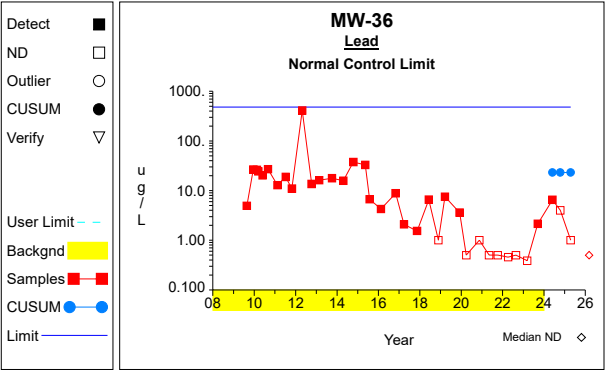
Graph 141



Graph 142

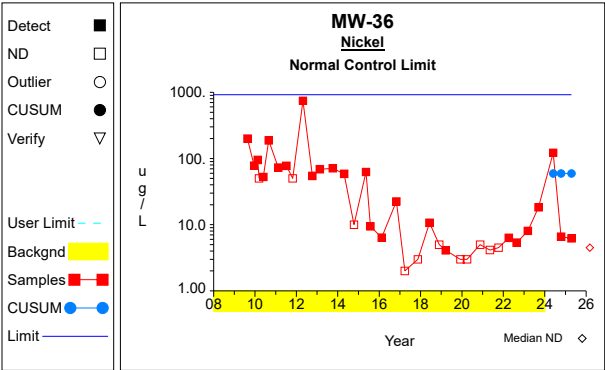


Graph 143

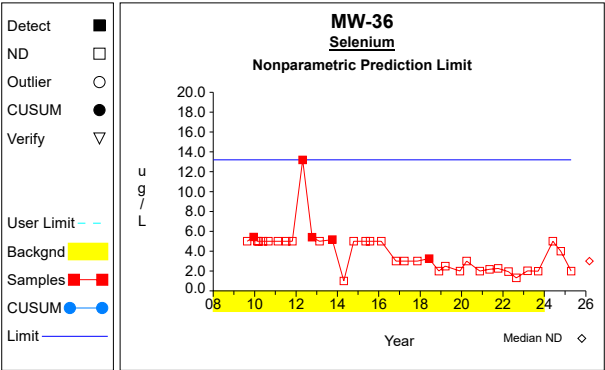


Graph 144

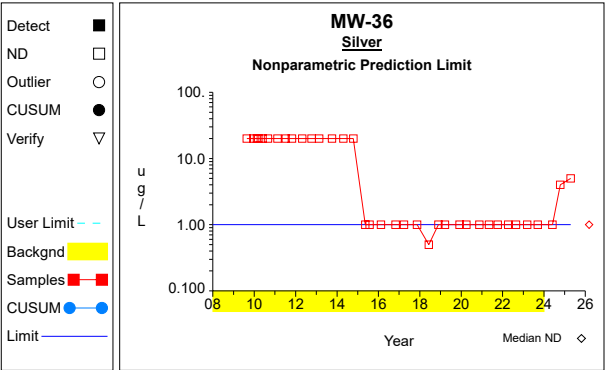
Intra-Well Control Charts / Prediction Limits



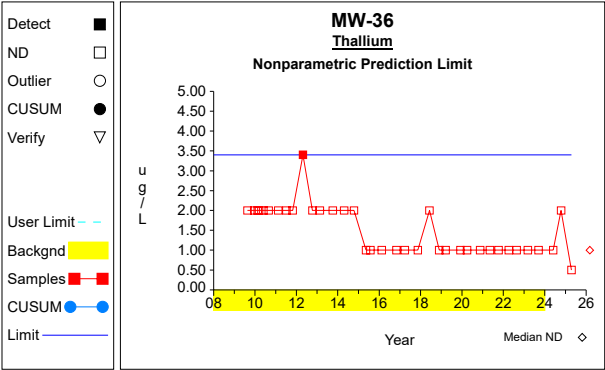
Graph 145



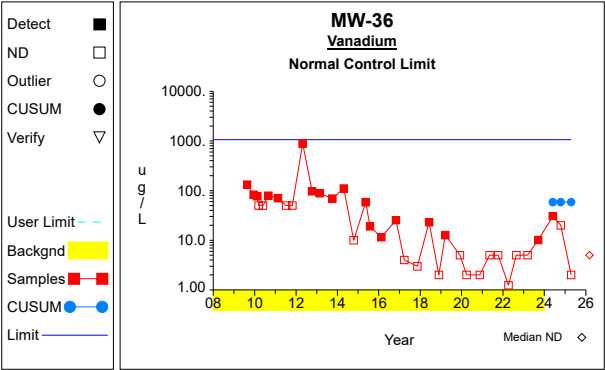
Graph 146



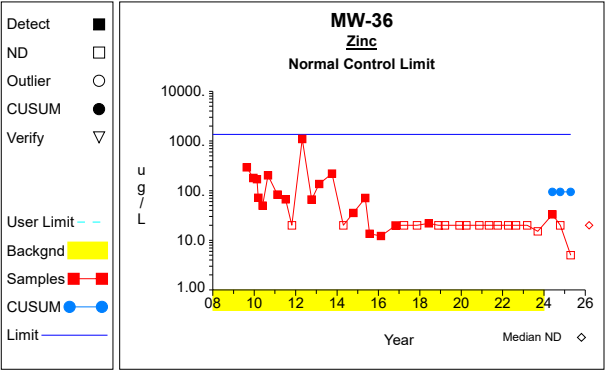
Graph 147



Graph 148

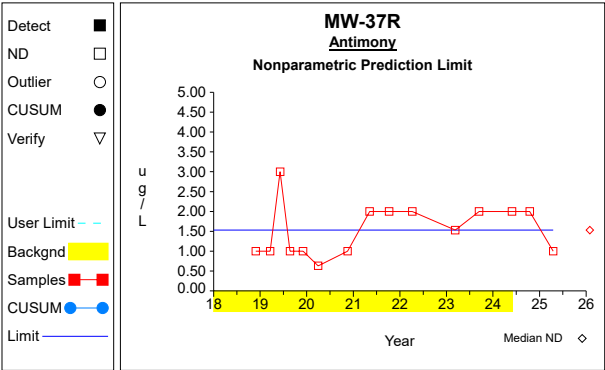


Graph 149

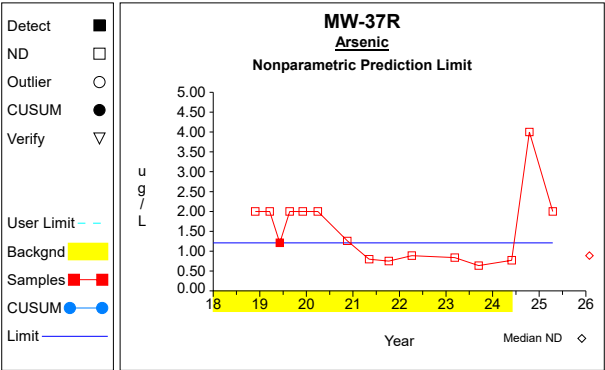


Graph 150

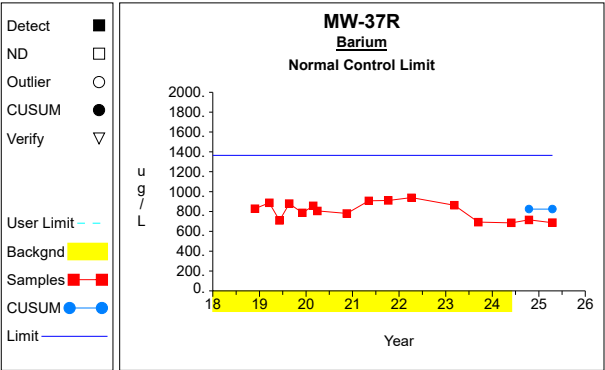
Intra-Well Control Charts / Prediction Limits



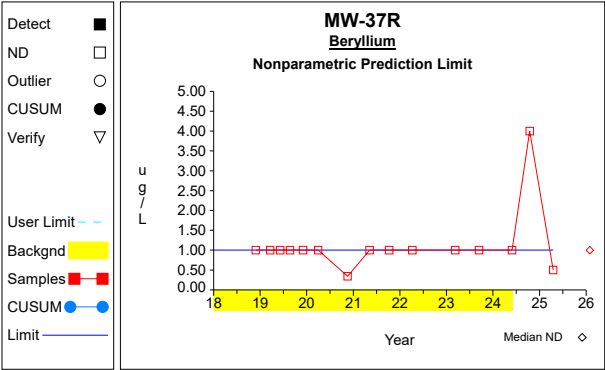
Graph 151



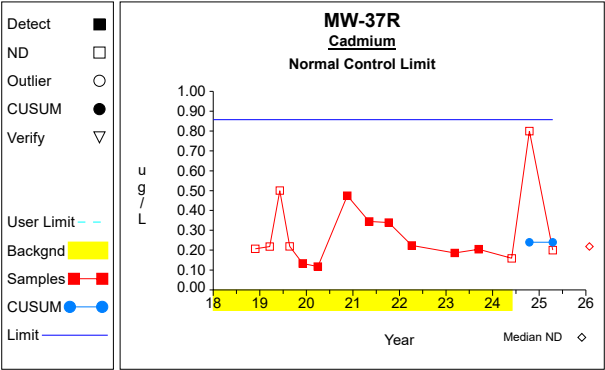
Graph 152



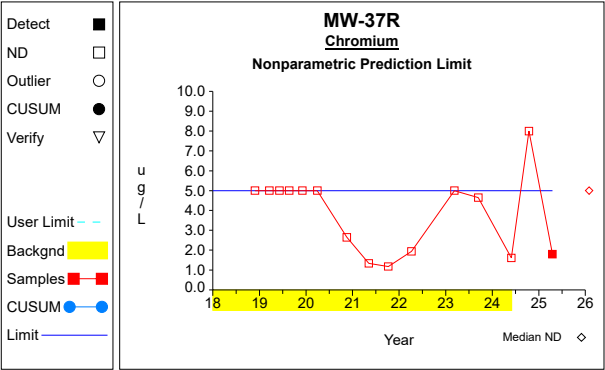
Graph 153



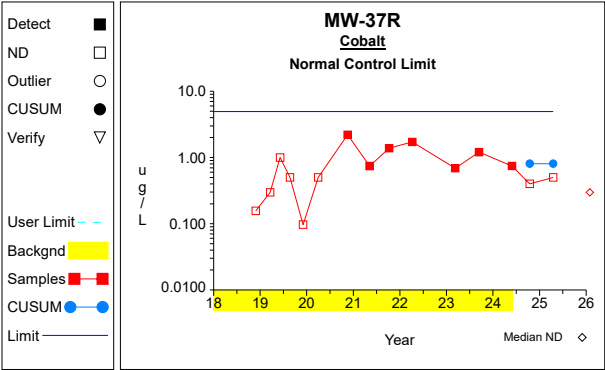
Graph 154



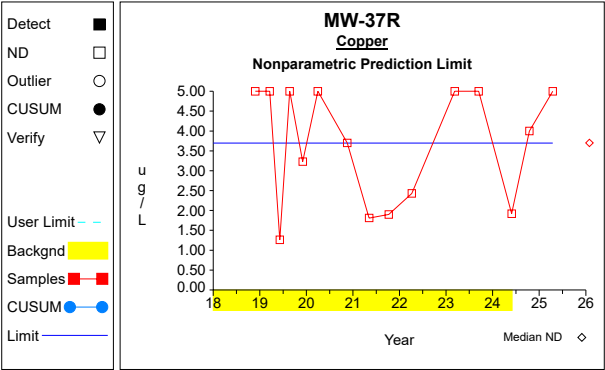
Graph 155



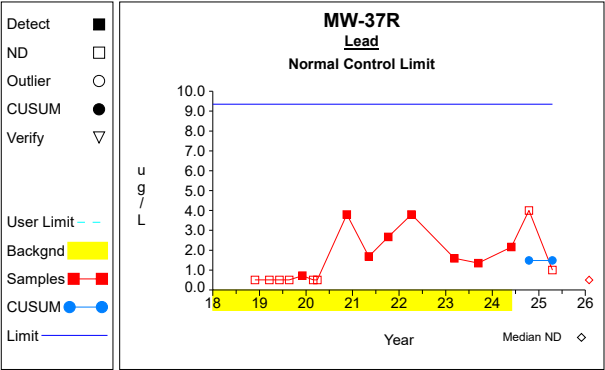
Graph 156



Graph 157

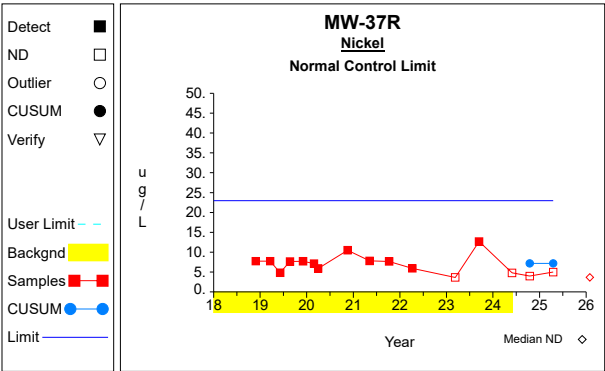


Graph 158

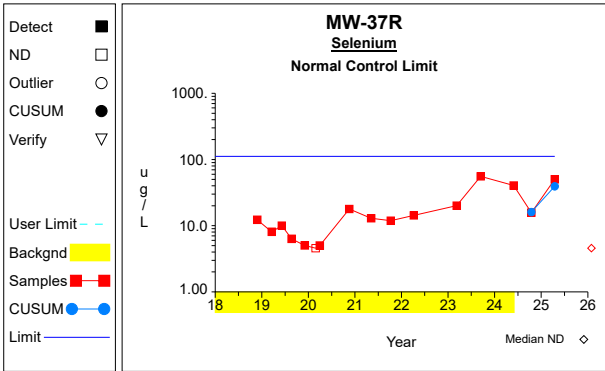


Graph 159

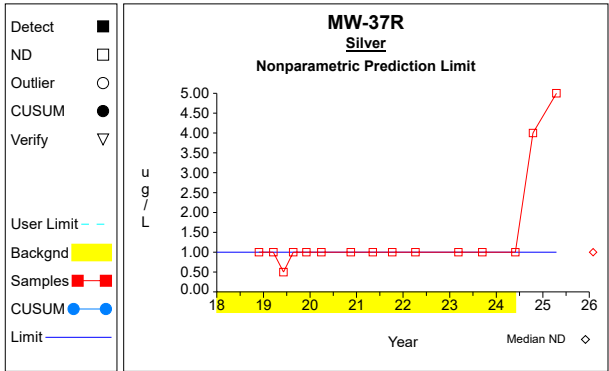
Intra-Well Control Charts / Prediction Limits



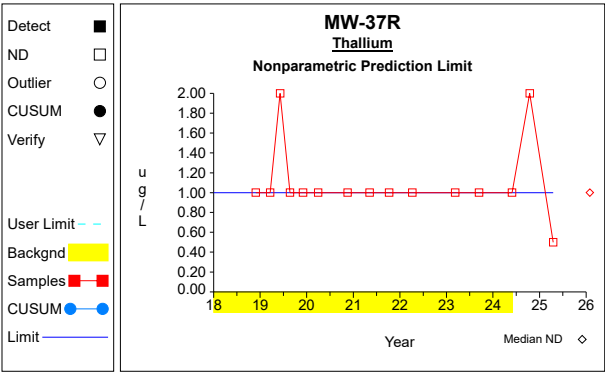
Graph 160



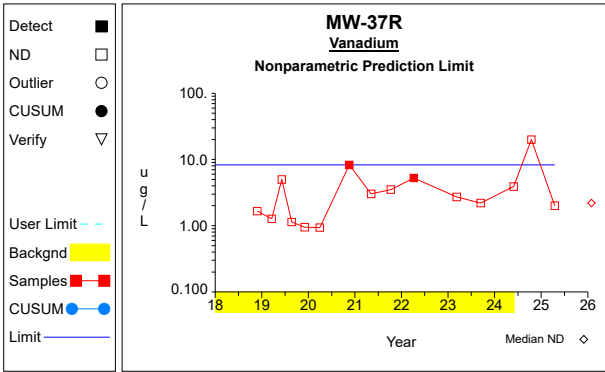
Graph 161



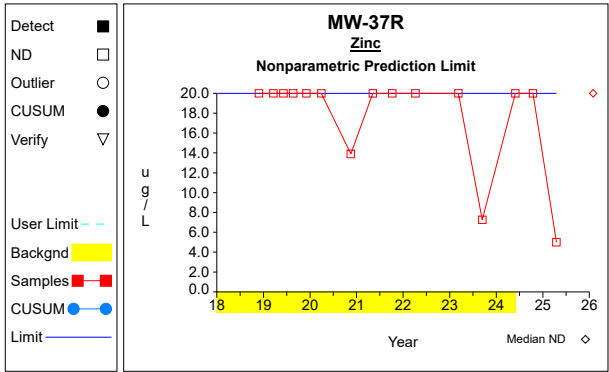
Graph 162



Graph 163

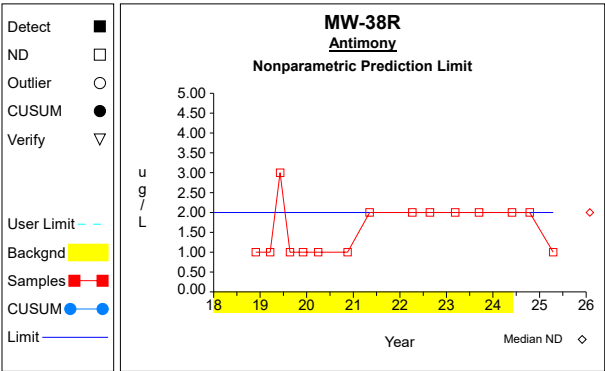


Graph 164

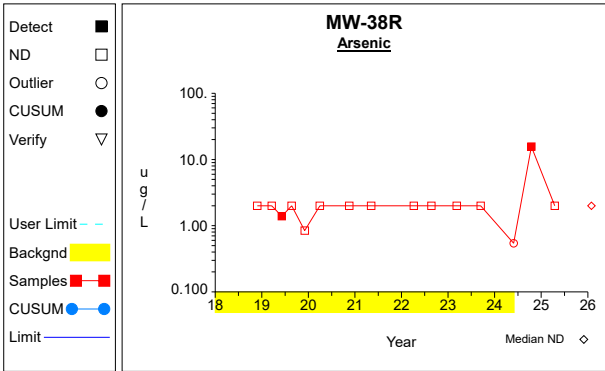


Graph 165

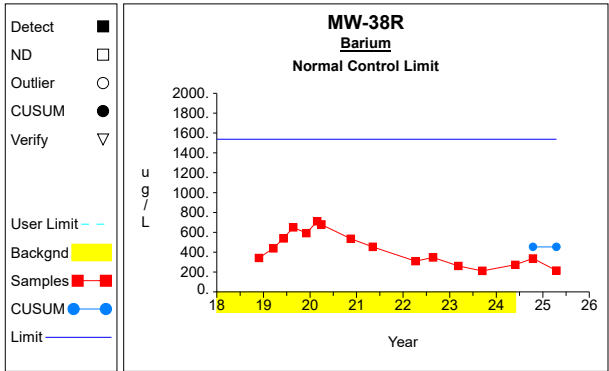
Intra-Well Control Charts / Prediction Limits



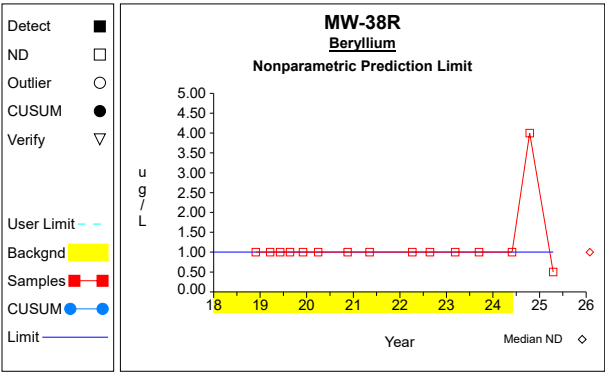
Graph 166



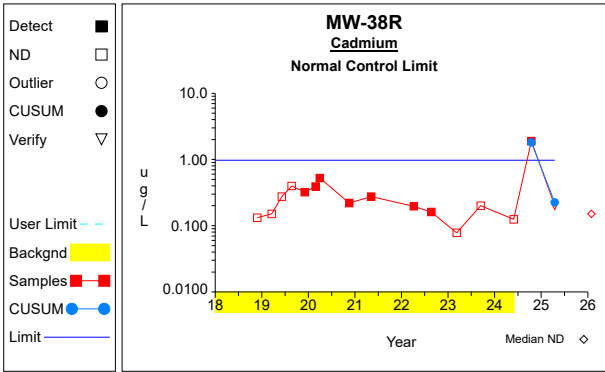
Graph 167



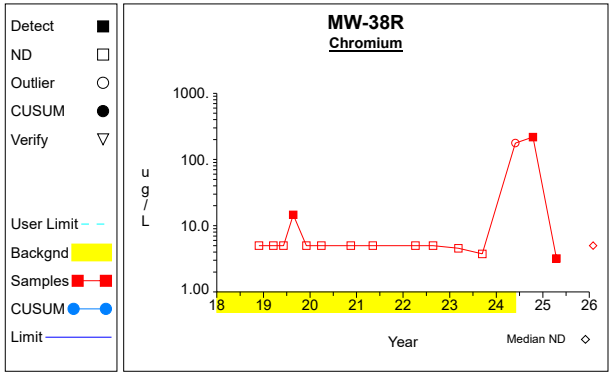
Graph 168



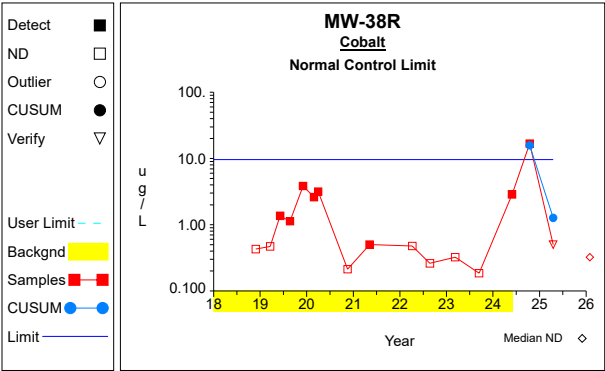
Graph 169



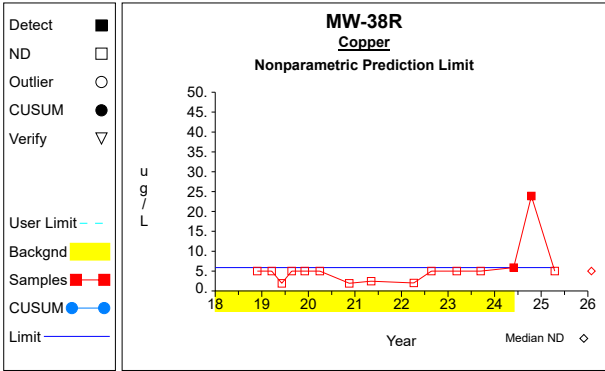
Graph 170



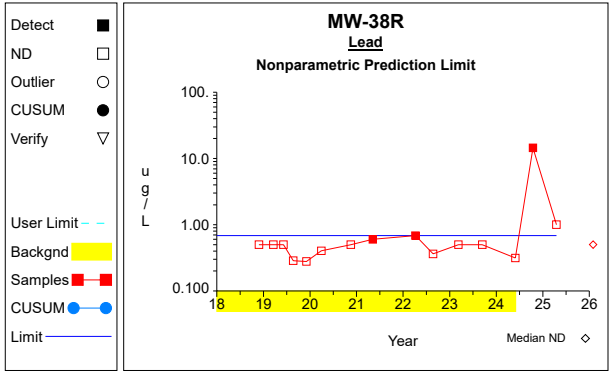
Graph 171



Graph 172

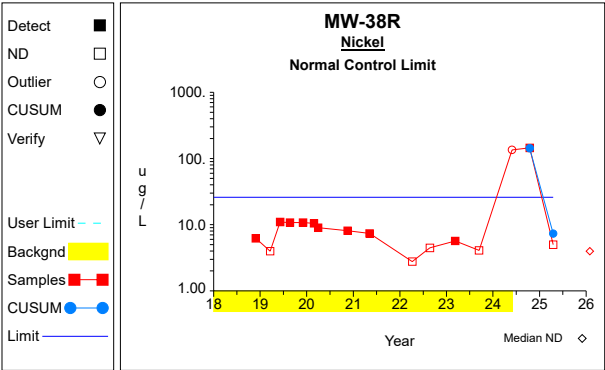


Graph 173

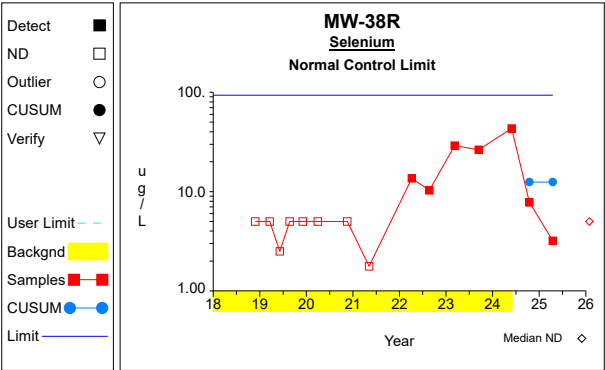


Graph 174

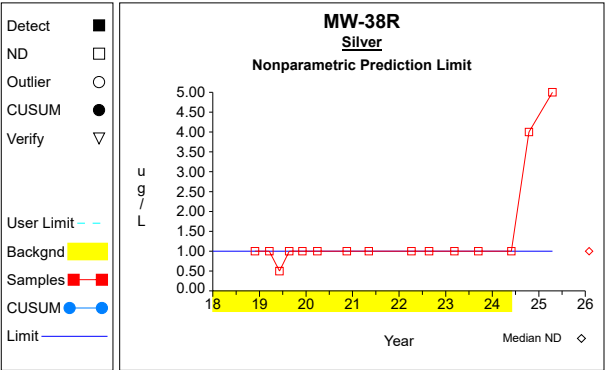
Intra-Well Control Charts / Prediction Limits



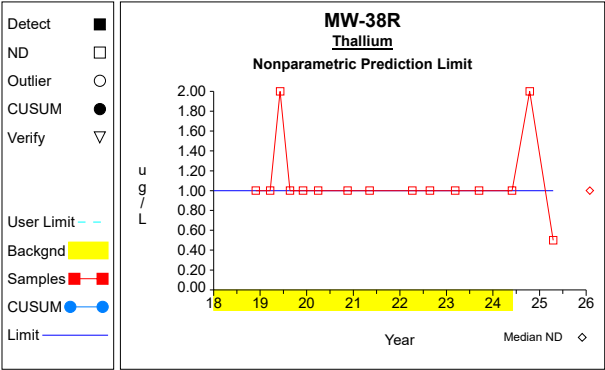
Graph 175



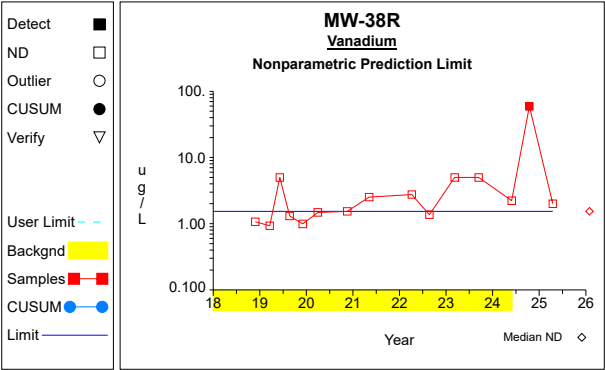
Graph 176



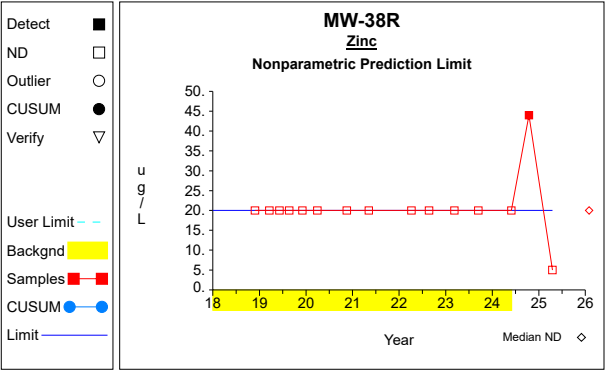
Graph 177



Graph 178

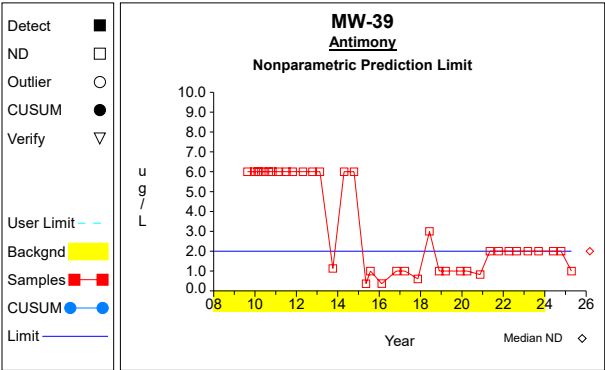


Graph 179

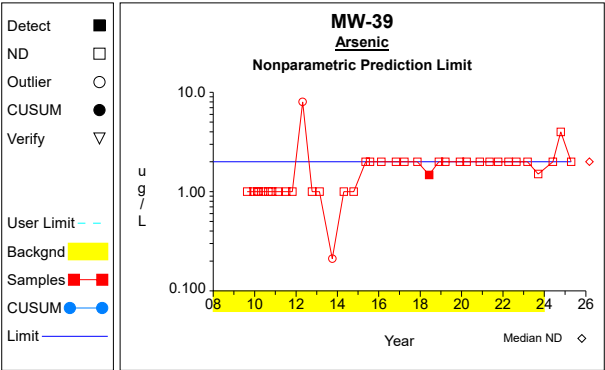


Graph 180

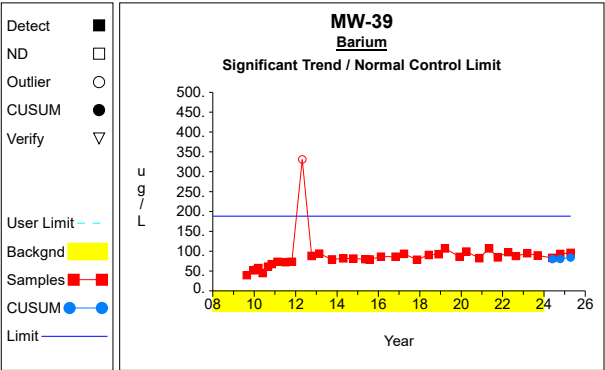
Intra-Well Control Charts / Prediction Limits



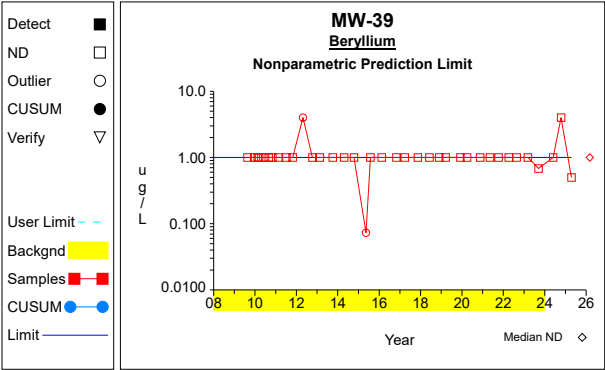
Graph 181



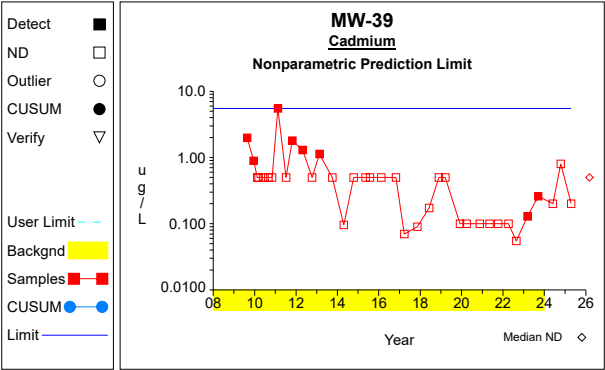
Graph 182



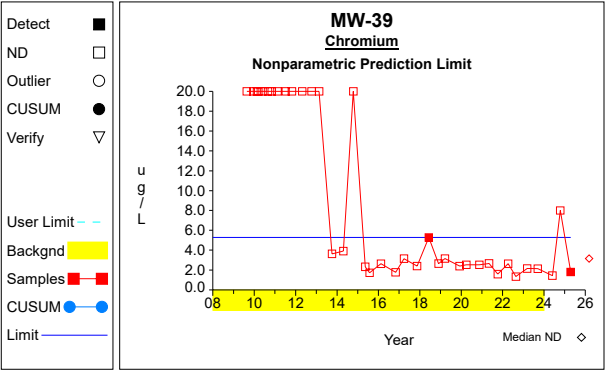
Graph 183



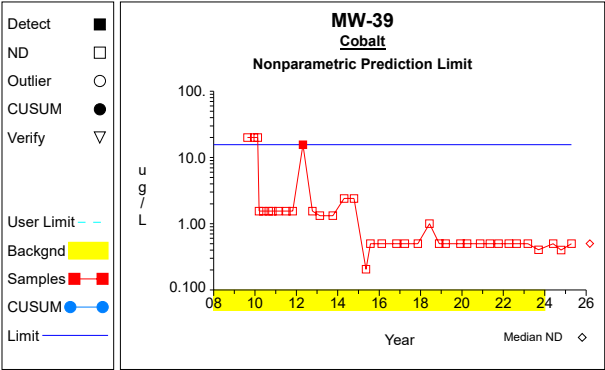
Graph 184



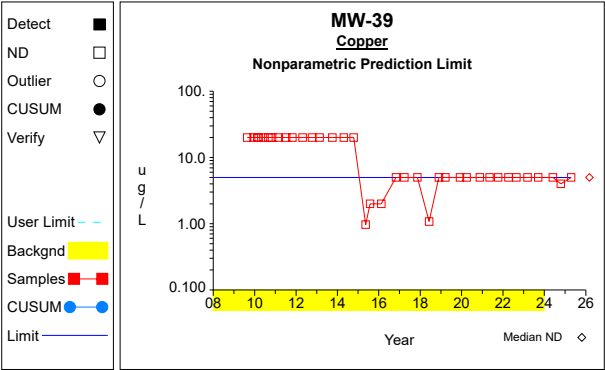
Graph 185



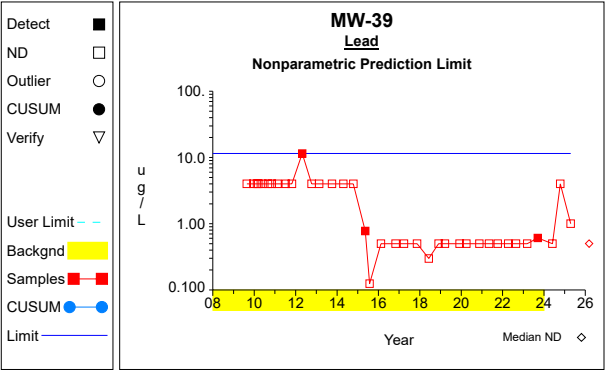
Graph 186



Graph 187

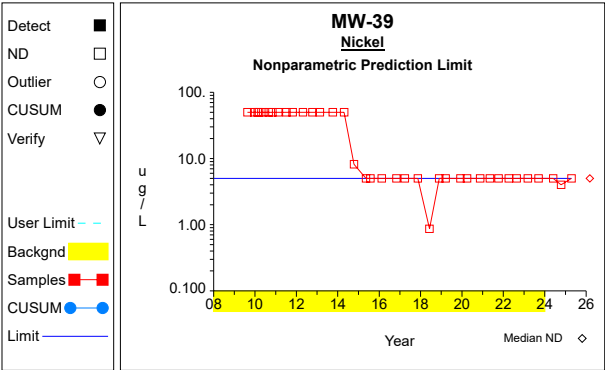


Graph 188

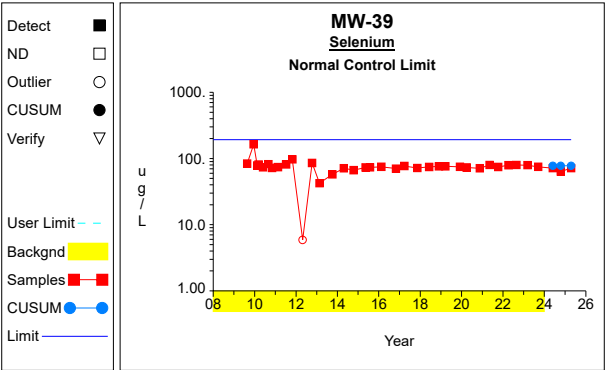


Graph 189

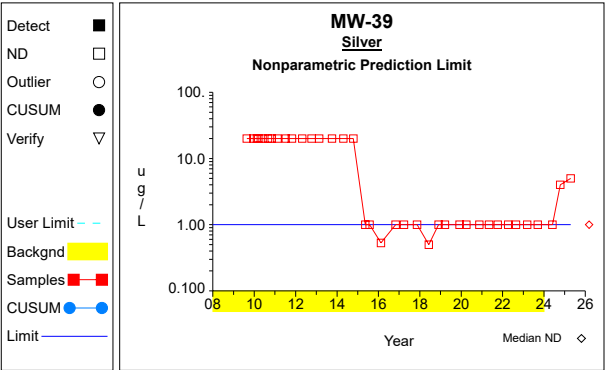
Intra-Well Control Charts / Prediction Limits



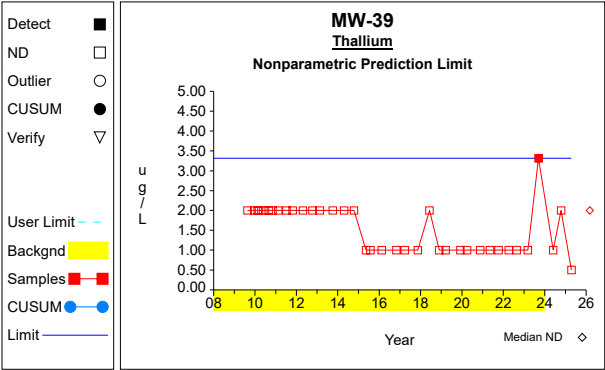
Graph 190



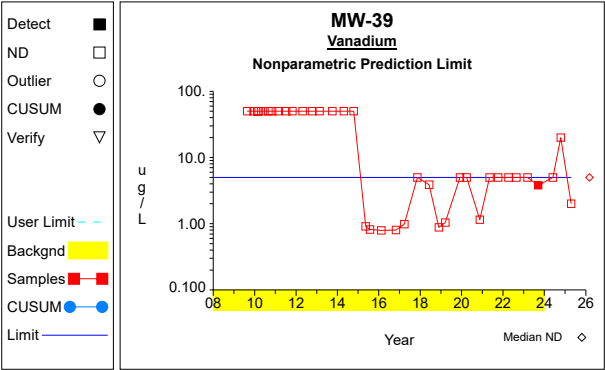
Graph 191



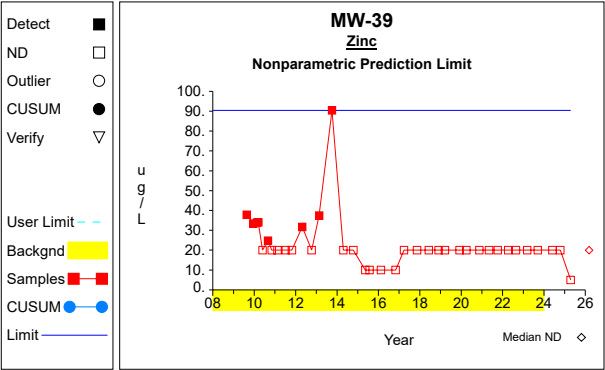
Graph 192



Graph 193

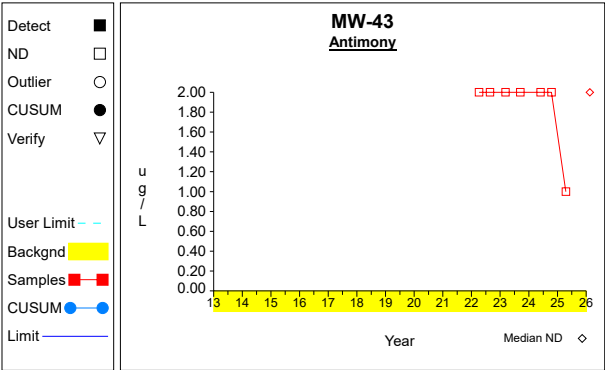


Graph 194

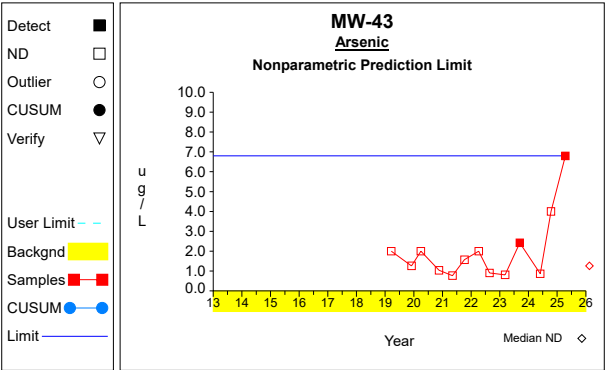


Graph 195

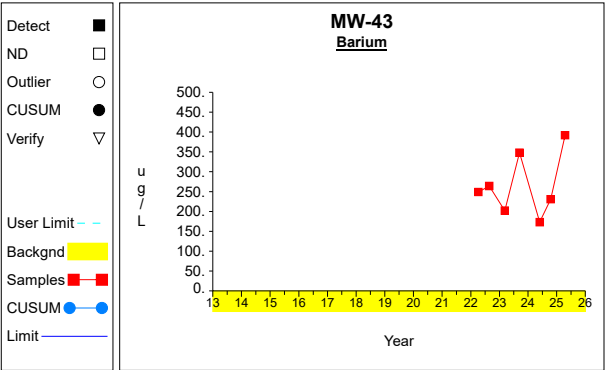
Intra-Well Control Charts / Prediction Limits



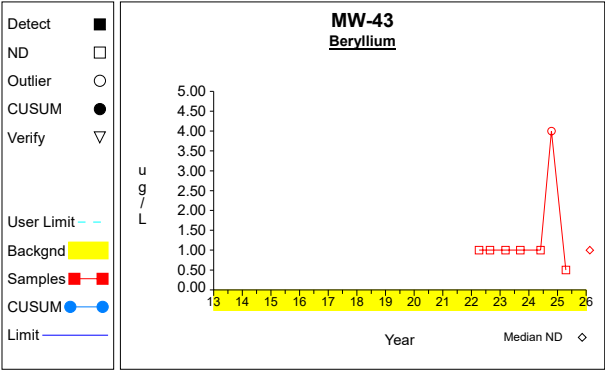
Graph 196



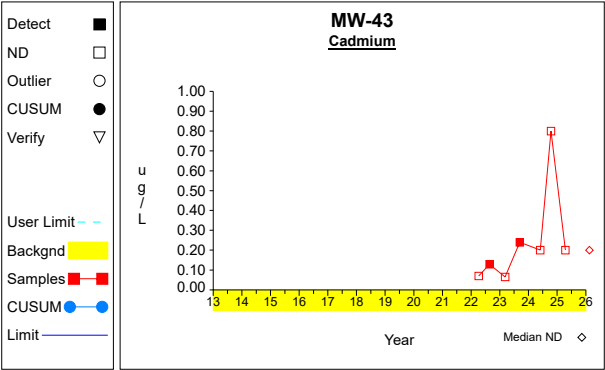
Graph 197



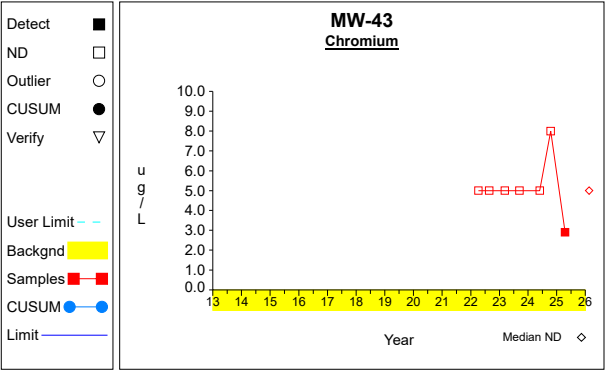
Graph 198



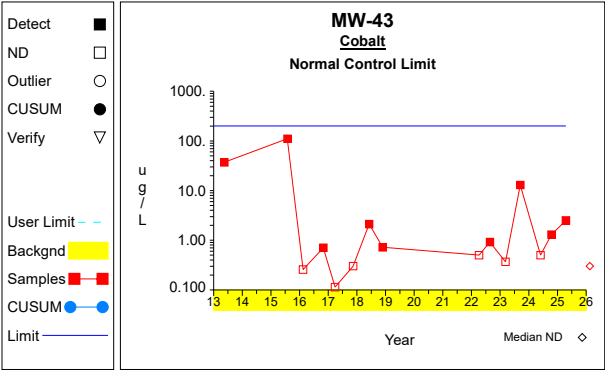
Graph 199



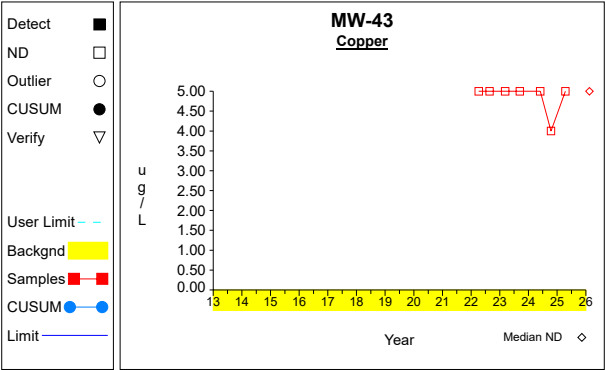
Graph 200



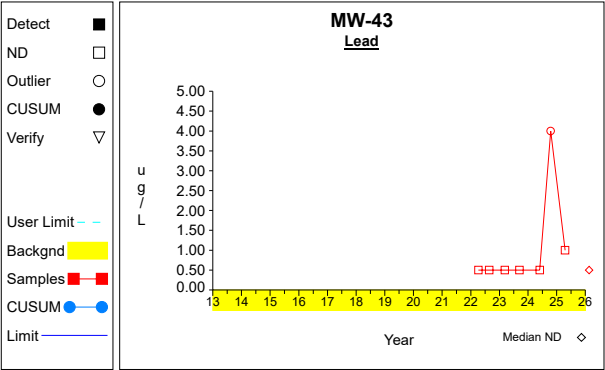
Graph 201



Graph 202

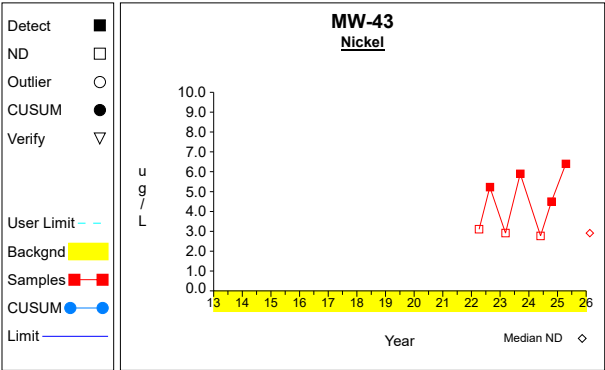


Graph 203

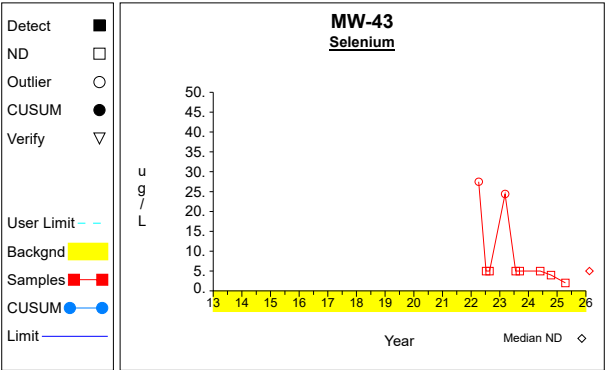


Graph 204

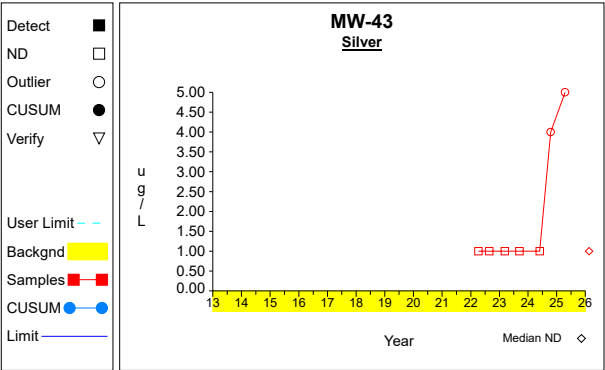
Intra-Well Control Charts / Prediction Limits



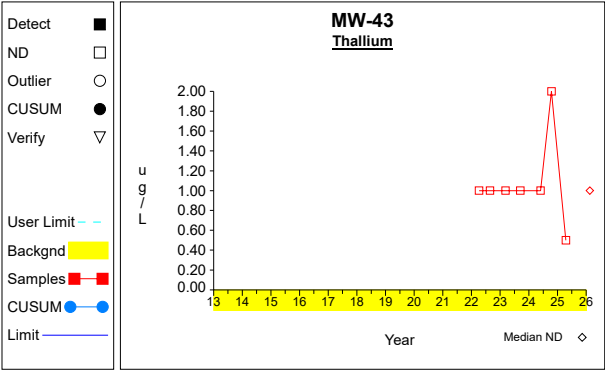
Graph 205



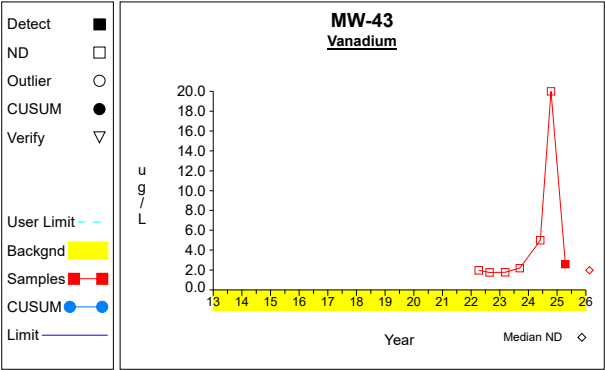
Graph 206



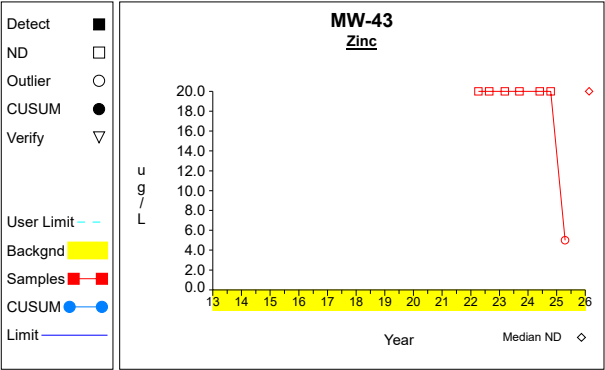
Graph 207



Graph 208

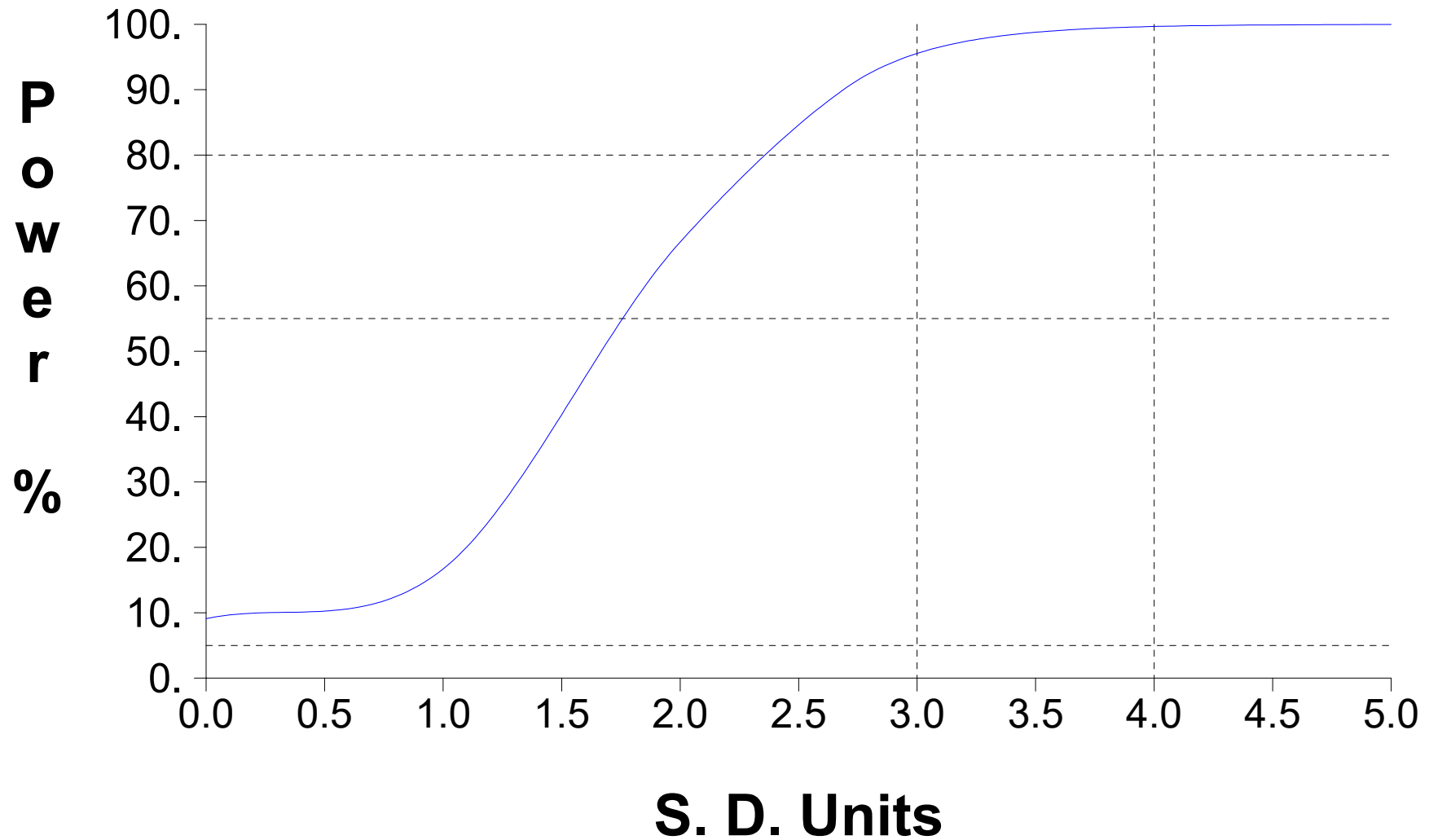


Graph 209



Graph 210

False Positive and False Negative Rates for Current Intra-Well Control Charts Monitoring Program



Attachment E

Summary Tables and Graphs for the LCL Comparisons – 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	
Antimony	ug/L	MW-11	4	1.500	0.000	1.176	1.500	1.500	6.000		
Arsenic	ug/L	MW-11	4	10.993	6.069	1.176	3.854	18.131	10.000		
Barium	ug/L	MW-11	4	521.500	131.711	1.176	366.570	676.430	2000.000		
Beryllium	ug/L	MW-11	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-11	4	0.578	0.681	1.176	0.000	1.380	5.000	dec	
Chromium	ug/L	MW-11	4	3.000	1.000	1.176	1.824	4.176	100.000		
Cobalt	ug/L	MW-11	4	8.782	4.958	1.176	2.950	14.615	2.100		**
Copper	ug/L	MW-11	4	29.675	49.666	1.176	0.000	88.097	1300.000		
Lead	ug/L	MW-11	4	1.147	1.236	1.176	0.000	2.601	15.000		
Nickel	ug/L	MW-11	4	12.083	8.410	1.176	2.190	21.975	100.000	dec	
Selenium	ug/L	MW-11	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-11	4	1.256	0.098	1.176	1.142	1.371	100.000		
Thallium	ug/L	MW-11	4	2.623	3.517	1.176	0.000	6.759	2.000		
Vanadium	ug/L	MW-11	4	3.750	2.500	1.176	0.809	6.691	35.000		
Zinc	ug/L	MW-11	4	44.850	58.085	1.176	0.000	113.174	2000.000		
Antimony	ug/L	MW-13	2								*
Arsenic	ug/L	MW-13	2								*
Barium	ug/L	MW-13	2								*
Beryllium	ug/L	MW-13	2								*
Cadmium	ug/L	MW-13	2								*
Chromium	ug/L	MW-13	2								*
Cobalt	ug/L	MW-13	2								*
Copper	ug/L	MW-13	2								*
Lead	ug/L	MW-13	2								*
Nickel	ug/L	MW-13	2								*
Selenium	ug/L	MW-13	2								*
Silver	ug/L	MW-13	2								*
Thallium	ug/L	MW-13	2								*
Vanadium	ug/L	MW-13	2								*
Zinc	ug/L	MW-13	2								*
Antimony	ug/L	MW-15R	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-15R	4	9.608	7.859	1.176	0.363	18.852	10.000		
Barium	ug/L	MW-15R	4	423.750	161.453	1.176	233.835	613.665	2000.000	inc	
Beryllium	ug/L	MW-15R	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-15R	4	0.117	0.122	1.176	0.000	0.260	5.000		
Chromium	ug/L	MW-15R	4	2.375	0.250	1.176	2.081	2.669	100.000		
Cobalt	ug/L	MW-15R	4	3.770	3.200	1.176	0.006	7.534	2.100		
Copper	ug/L	MW-15R	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-15R	4	0.438	0.375	1.176	0.000	0.879	15.000		
Nickel	ug/L	MW-15R	4	4.450	2.253	1.176	1.800	7.100	100.000		
Selenium	ug/L	MW-15R	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-15R	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-15R	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-15R	4	3.175	1.350	1.176	1.587	4.763	35.000		
Zinc	ug/L	MW-15R	4	10.700	1.400	1.176	9.053	12.347	2000.000		
Antimony	ug/L	MW-19	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-19	4	0.720	0.000	1.176	0.720	0.720	10.000		
Barium	ug/L	MW-19	4	1129.000	135.021	1.176	970.176	1287.824	2000.000	inc	
Beryllium	ug/L	MW-19	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-19	4	0.113	0.125	1.176	0.000	0.260	5.000	dec	
Chromium	ug/L	MW-19	4	2.425	0.150	1.176	2.249	2.601	100.000		
Cobalt	ug/L	MW-19	4	22.325	1.948	1.176	20.033	24.617	2.100	inc	**
Copper	ug/L	MW-19	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-19	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-19	4	52.825	7.041	1.176	44.542	61.108	100.000		
Selenium	ug/L	MW-19	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-19	4	1.305	0.000	1.176	1.305	1.305	100.000		
Thallium	ug/L	MW-19	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-19	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-19	4	8.950	2.100	1.176	6.480	11.420	2000.000		
Antimony	ug/L	MW-20	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-20	4	85.300	18.507	1.176	63.530	107.070	10.000		**
Barium	ug/L	MW-20	4	2292.500	766.611	1.176	1390.745	3194.255	2000.000	dec	
Beryllium	ug/L	MW-20	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-20	4	0.100	0.000	1.176	0.100	0.100	5.000		
Chromium	ug/L	MW-20	4	2.250	0.500	1.176	1.662	2.838	100.000		
Cobalt	ug/L	MW-20	4	8.660	3.968	1.176	3.992	13.328	2.100	dec	**
Copper	ug/L	MW-20	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-20	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-20	4	30.850	21.932	1.176	5.052	56.648	100.000	dec	
Selenium	ug/L	MW-20	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-20	4	0.500	0.000	1.176	0.500	0.500	100.000		

* - Insufficient Data

** - Significant Exceedance

LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

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	
Thallium	ug/L	MW-20	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-20	4	2.275	0.050	1.176	2.216	2.334	35.000		
Zinc	ug/L	MW-20	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-21	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-21	4	2.515	2.925	1.176	0.000	5.955	10.000		
Barium	ug/L	MW-21	4	1142.500	81.394	1.176	1046.757	1238.243	2000.000	inc	
Beryllium	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-21	4	0.100	0.000	1.176	0.100	0.100	5.000		
Chromium	ug/L	MW-21	4	2.225	0.550	1.176	1.578	2.872	100.000		
Cobalt	ug/L	MW-21	4	11.058	6.442	1.176	3.479	18.636	2.100		**
Copper	ug/L	MW-21	4	3.725	2.450	1.176	0.843	6.607	1300.000		
Lead	ug/L	MW-21	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-21	4	20.475	7.043	1.176	12.190	28.760	100.000		
Selenium	ug/L	MW-21	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-21	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-21	4	14.525	9.050	1.176	3.880	25.170	2000.000		
Antimony	ug/L	MW-22	4	3.597	1.339	1.066	2.171	5.024	6.000		
Arsenic	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	10.000		
Barium	ug/L	MW-22	4	248.250	23.543	1.176	220.557	275.943	2000.000		
Beryllium	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-22	4	0.238	0.025	1.176	0.208	0.267	5.000		
Chromium	ug/L	MW-22	4	2.300	0.400	1.176	1.829	2.771	100.000		
Cobalt	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	2.100		
Copper	ug/L	MW-22	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	15.000		
Nickel	ug/L	MW-22	4	4.563	4.125	1.176	0.000	9.415	100.000		
Selenium	ug/L	MW-22	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-22	4	1.500	0.000	1.176	1.500	1.500	35.000		
Zinc	ug/L	MW-22	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-23	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-23	4	1.000	0.000	1.176	1.000	1.000	10.000		
Barium	ug/L	MW-23	4	91.600	70.213	1.176	9.010	174.190	2000.000	dec	
Beryllium	ug/L	MW-23	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-23	4	0.250	0.000	1.176	0.250	0.250	5.000		
Chromium	ug/L	MW-23	4	2.325	0.350	1.176	1.913	2.737	100.000		
Cobalt	ug/L	MW-23	4	0.475	0.050	1.176	0.416	0.534	2.100		
Copper	ug/L	MW-23	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-23	4	0.500	0.000	1.176	0.500	0.500	15.000		
Nickel	ug/L	MW-23	4	2.500	0.000	1.176	2.500	2.500	100.000		
Selenium	ug/L	MW-23	4	1.095	0.000	1.176	1.095	1.095	50.000		
Silver	ug/L	MW-23	4	1.305	0.000	1.176	1.305	1.305	100.000		
Thallium	ug/L	MW-23	4	0.750	0.500	1.176	0.162	1.338	2.000		
Vanadium	ug/L	MW-23	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-23	4	13.663	10.916	1.176	0.822	26.503	2000.000		
Antimony	ug/L	MW-24	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-24	4	3.843	4.374	1.176	0.000	8.988	10.000		
Barium	ug/L	MW-24	4	693.000	82.361	1.176	596.120	789.880	2000.000		
Beryllium	ug/L	MW-24	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-24	4	1.012	0.172	1.176	0.809	1.214	5.000		
Chromium	ug/L	MW-24	4	2.150	0.700	1.176	1.327	2.973	100.000		
Cobalt	ug/L	MW-24	4	3.163	0.867	1.176	2.143	4.182	2.100		
Copper	ug/L	MW-24	4	3.025	1.050	1.176	1.790	4.260	1300.000		
Lead	ug/L	MW-24	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-24	4	29.600	3.907	1.176	25.004	34.196	100.000	inc	
Selenium	ug/L	MW-24	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-24	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-24	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-24	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-24	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-36	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-36	4	1.000	0.000	1.176	1.000	1.000	10.000		
Barium	ug/L	MW-36	4	154.000	31.801	1.176	116.592	191.408	2000.000	dec	
Beryllium	ug/L	MW-36	4	1.413	1.825	1.176	0.000	3.559	4.000		
Cadmium	ug/L	MW-36	4	1.172	0.929	1.176	0.078	2.265	5.000	dec	
Chromium	ug/L	MW-36	4	12.800	21.407	1.176	0.000	37.981	100.000		
Cobalt	ug/L	MW-36	4	7.618	11.403	1.176	0.000	21.031	2.100	dec	
Copper	ug/L	MW-36	4	4.900	4.800	1.176	0.000	10.546	1300.000		
Lead	ug/L	MW-36	4	2.295	2.962	1.176	0.000	5.779	15.000	dec	

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LCL = Lower Confidence Limit

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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	
Nickel	ug/L	MW-36	4	38.275	56.098	1.176	0.000	104.263	100.000		
Selenium	ug/L	MW-36	4	1.500	0.000	1.176	1.500	1.500	50.000		
Silver	ug/L	MW-36	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-36	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-36	4	11.450	13.324	1.176	0.000	27.123	35.000		
Zinc	ug/L	MW-36	4	15.800	11.600	1.176	2.155	29.445	2000.000	dec	
Antimony	ug/L	MW-37R	4	0.765	0.000	1.176	0.765	0.765	6.000		
Arsenic	ug/L	MW-37R	4	0.630	0.000	1.176	0.630	0.630	10.000		
Barium	ug/L	MW-37R	4	695.250	13.525	1.176	679.341	711.159	2000.000		
Beryllium	ug/L	MW-37R	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-37R	4	0.133	0.048	1.176	0.077	0.190	5.000		
Chromium	ug/L	MW-37R	4	2.325	0.350	1.176	1.913	2.737	100.000		
Cobalt	ug/L	MW-37R	4	0.589	0.487	1.176	0.015	1.162	2.100		
Copper	ug/L	MW-37R	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Lead	ug/L	MW-37R	4	1.003	0.930	1.176	0.000	2.096	15.000		
Nickel	ug/L	MW-37R	4	4.675	5.350	1.176	0.000	10.968	100.000		
Selenium	ug/L	MW-37R	4	40.600	17.703	1.176	19.776	61.424	50.000	inc	
Silver	ug/L	MW-37R	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-37R	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-37R	4	1.100	0.000	1.176	1.100	1.100	35.000		
Zinc	ug/L	MW-37R	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-38R	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-38R	4	4.675	7.350	1.176	0.000	13.321	10.000		
Barium	ug/L	MW-38R	4	259.250	58.948	1.176	189.910	328.590	2000.000		
Beryllium	ug/L	MW-38R	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-38R	4	0.563	0.893	1.176	0.000	1.614	5.000		
Chromium	ug/L	MW-38R	4	100.175	113.621	1.176	0.000	233.826	100.000		
Cobalt	ug/L	MW-38R	4	5.083	7.904	1.176	0.000	14.380	2.100		
Copper	ug/L	MW-38R	4	8.695	10.261	1.176	0.000	20.765	1300.000		
Lead	ug/L	MW-38R	4	3.813	7.125	1.176	0.000	12.194	15.000		
Nickel	ug/L	MW-38R	4	71.023	79.753	1.176	0.000	164.835	100.000		
Selenium	ug/L	MW-38R	4	20.150	18.350	1.176	0.000	41.735	50.000		
Silver	ug/L	MW-38R	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-38R	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-38R	4	15.403	29.265	1.176	0.000	49.827	35.000		
Zinc	ug/L	MW-38R	4	18.500	17.000	1.176	0.000	38.497	2000.000		
Antimony	ug/L	MW-39	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-39	4	1.000	0.000	1.176	1.000	1.000	10.000		
Barium	ug/L	MW-39	4	90.375	5.418	1.176	84.002	96.748	2000.000	inc	
Beryllium	ug/L	MW-39	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-39	4	0.252	0.005	1.176	0.247	0.258	5.000		
Chromium	ug/L	MW-39	4	1.635	0.110	1.176	1.506	1.764	100.000		
Cobalt	ug/L	MW-39	4	0.250	0.000	1.176	0.250	0.250	2.100		
Copper	ug/L	MW-39	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-39	4	0.340	0.180	1.176	0.128	0.552	15.000		
Nickel	ug/L	MW-39	4	2.500	0.000	1.176	2.500	2.500	100.000		
Selenium	ug/L	MW-39	4	70.387	4.833	1.176	64.703	76.072	50.000		
Silver	ug/L	MW-39	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-39	4	1.204	1.408	1.176	0.000	2.859	2.000		
Vanadium	ug/L	MW-39	4	2.828	0.655	1.176	2.057	3.598	35.000		
Zinc	ug/L	MW-39	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-43	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-43	4	2.620	2.912	1.176	0.000	6.045	10.000		
Barium	ug/L	MW-43	4	286.000	101.446	1.176	166.670	405.330	2000.000		
Beryllium	ug/L	MW-43	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-43	4	0.135	0.070	1.176	0.053	0.217	5.000		
Chromium	ug/L	MW-43	4	2.600	0.200	1.176	2.365	2.835	100.000		
Cobalt	ug/L	MW-43	4	4.238	5.920	1.176	0.000	11.201	2.100		
Copper	ug/L	MW-43	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-43	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-43	4	4.564	2.223	1.176	1.949	7.179	100.000		
Selenium	ug/L	MW-43	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-43	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-43	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-43	4	1.393	0.805	1.176	0.446	2.339	35.000		
Zinc	ug/L	MW-43	4	10.000	0.000	1.176	10.000	10.000	2000.000		

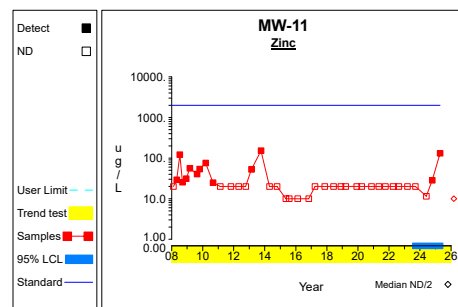
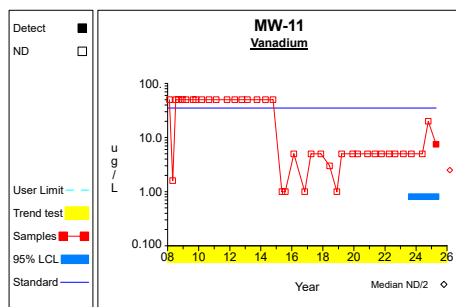
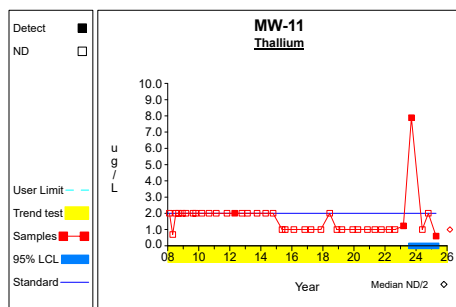
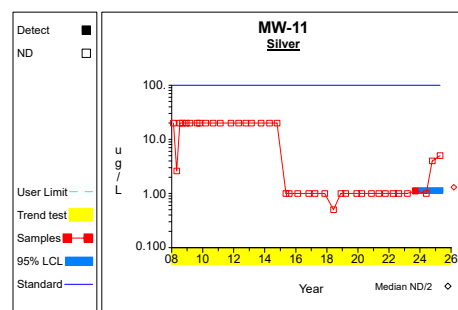
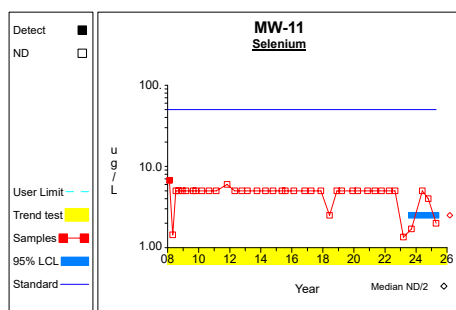
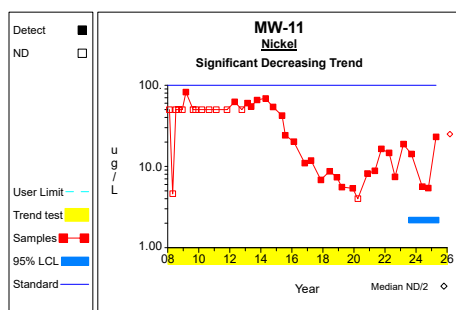
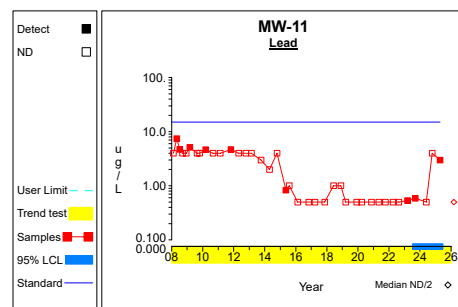
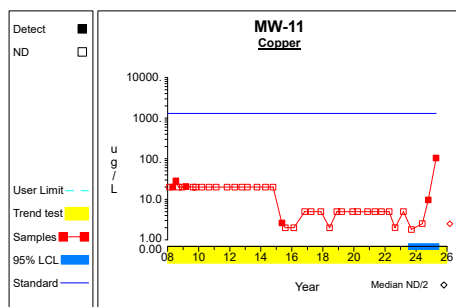
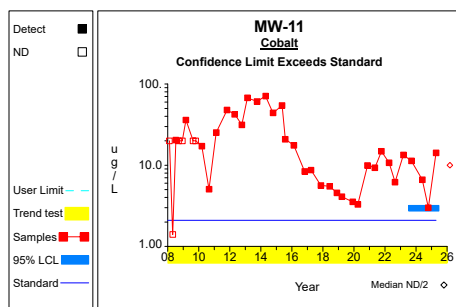
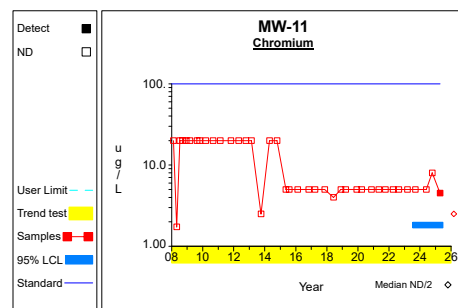
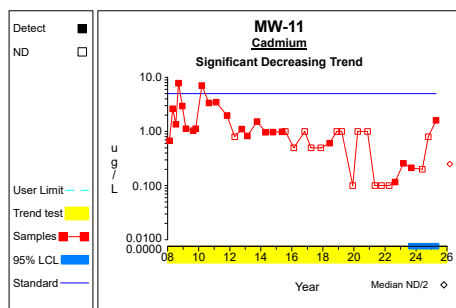
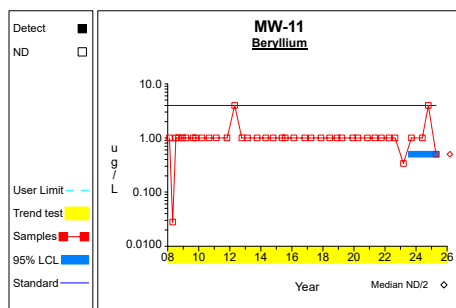
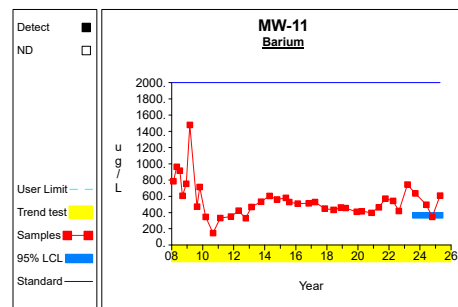
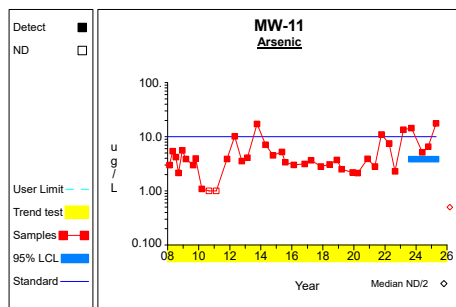
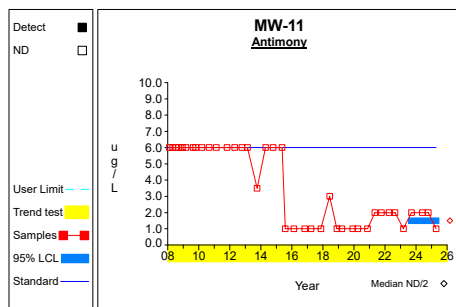
* - Insufficient Data

** - Significant Exceedance

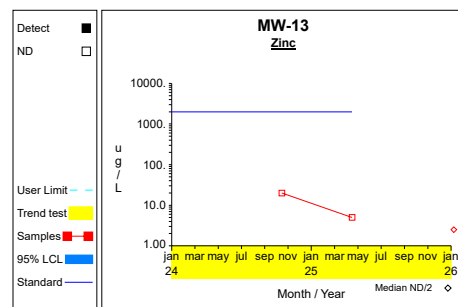
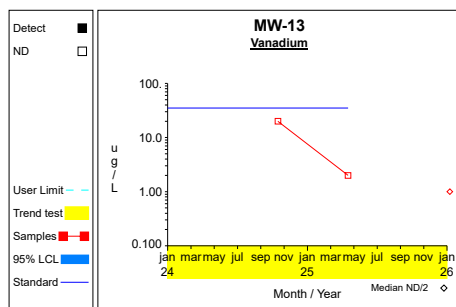
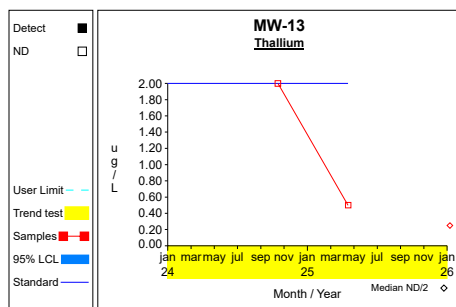
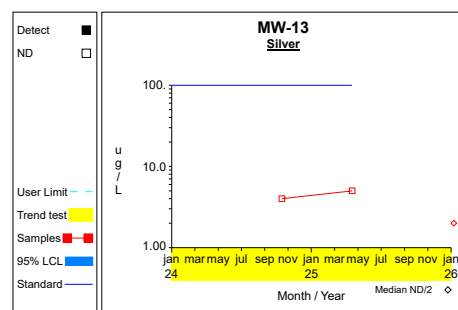
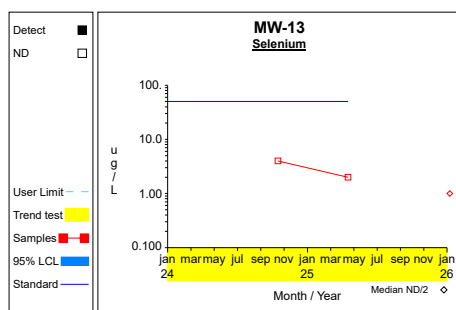
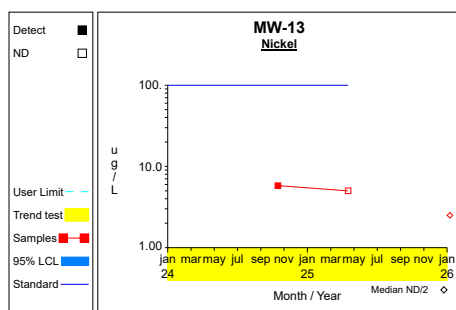
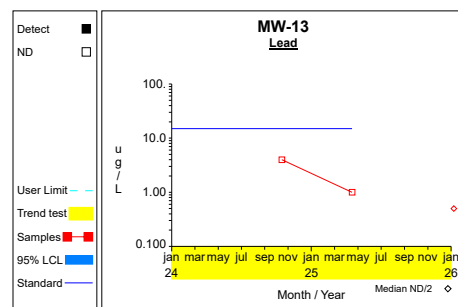
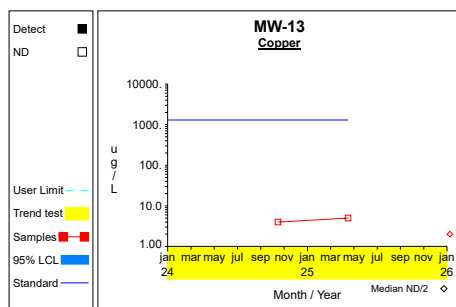
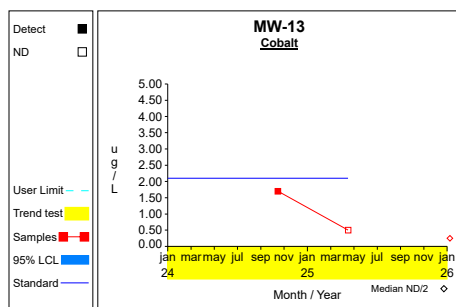
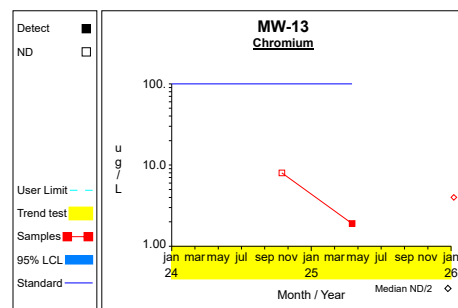
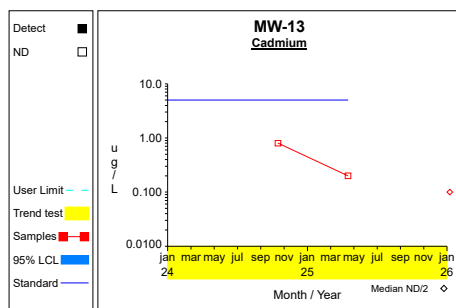
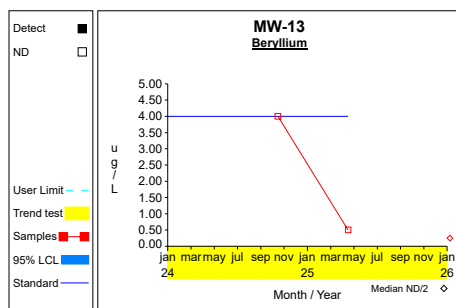
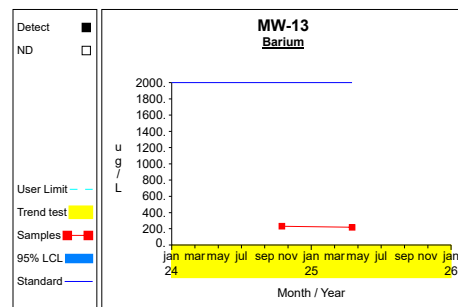
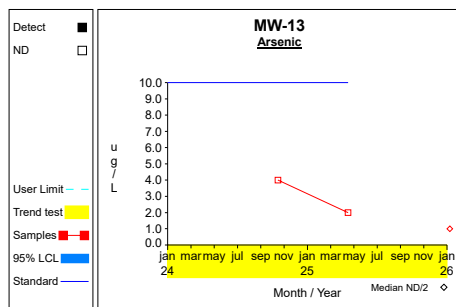
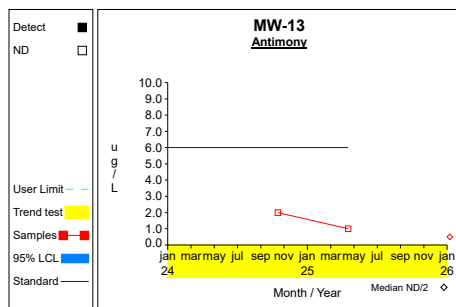
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

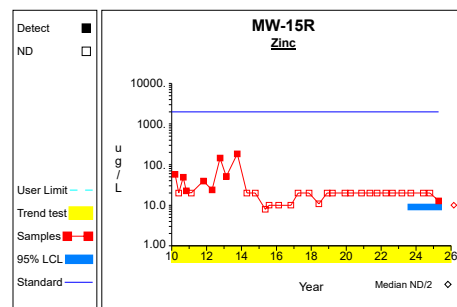
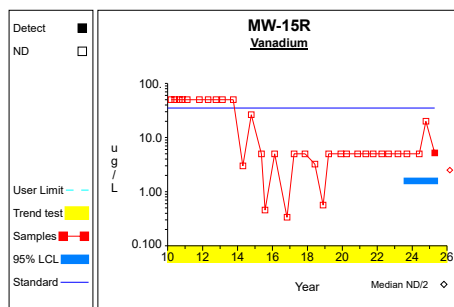
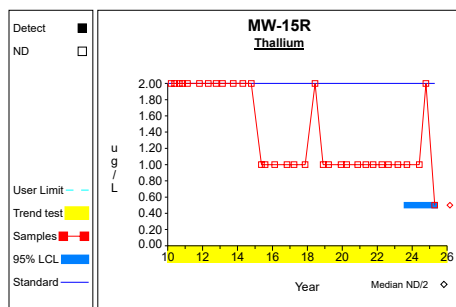
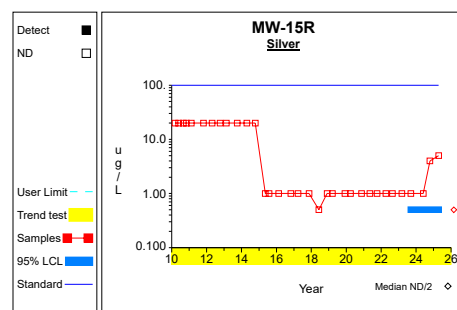
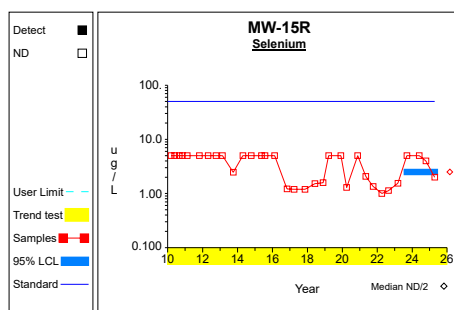
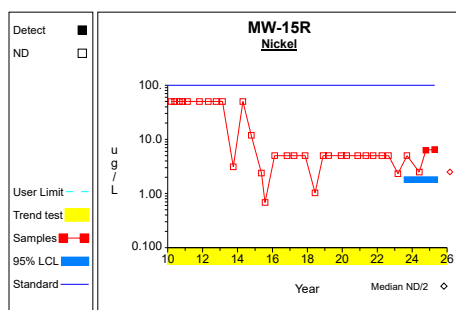
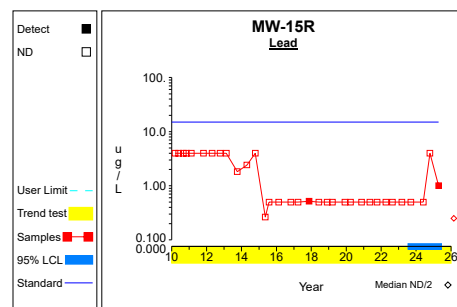
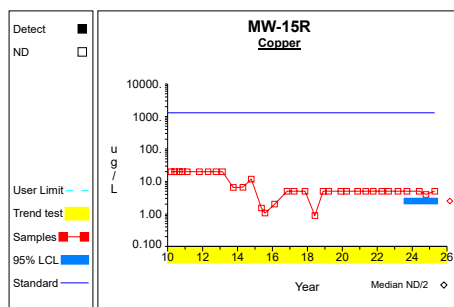
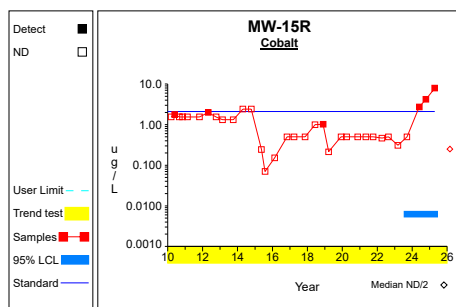
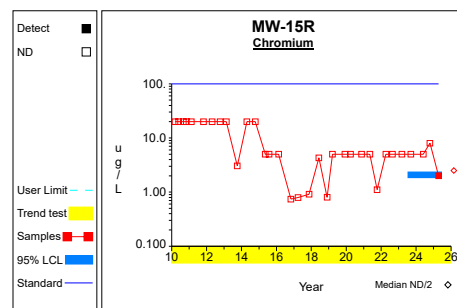
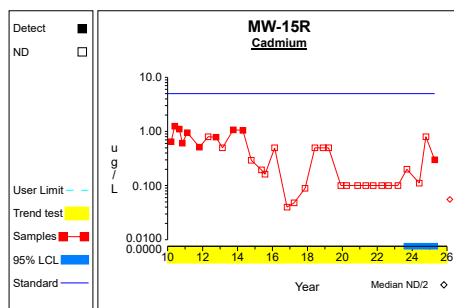
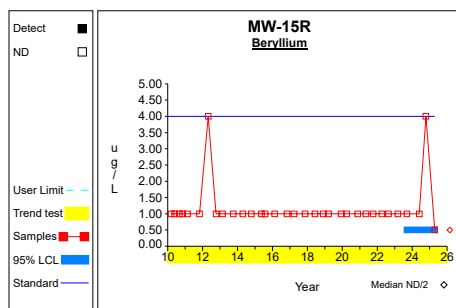
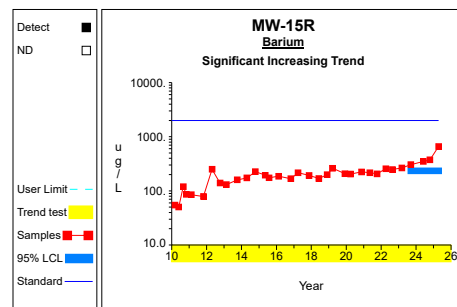
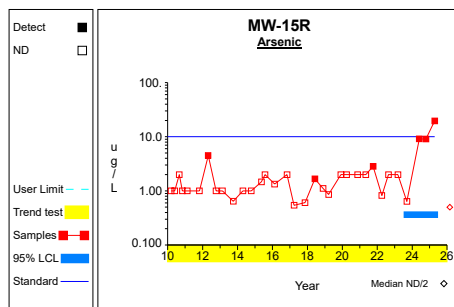
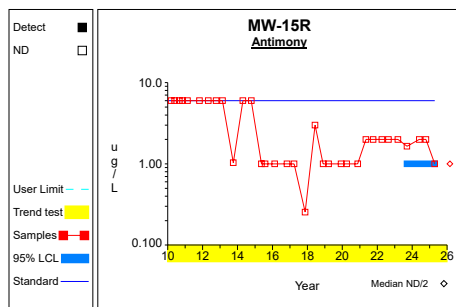
Confidence Limits (Assessment)



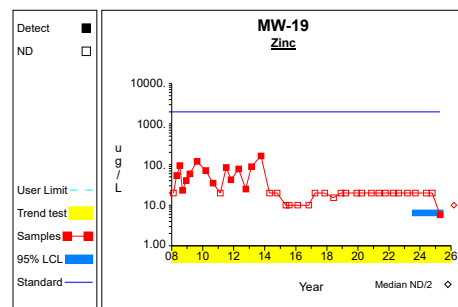
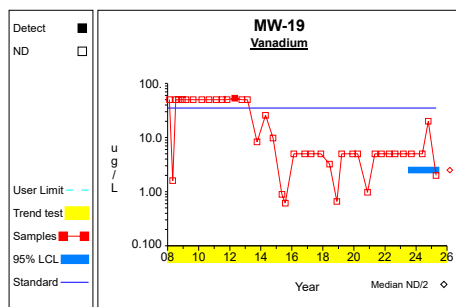
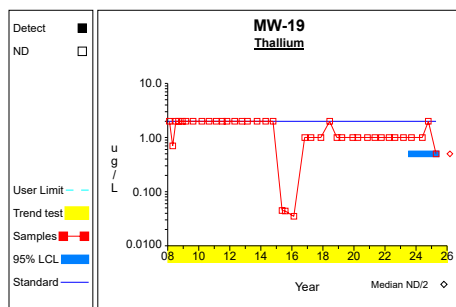
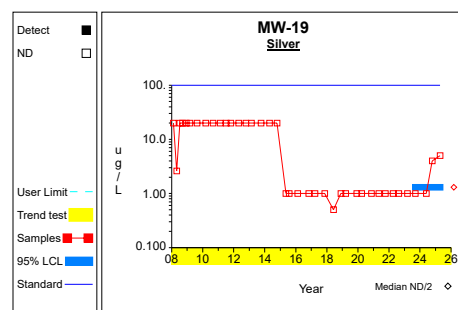
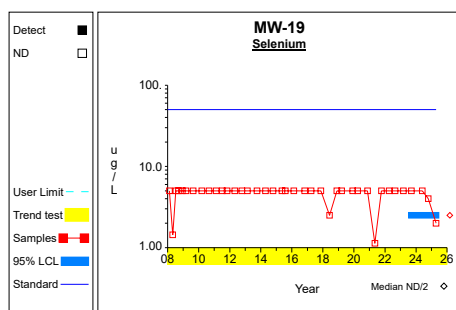
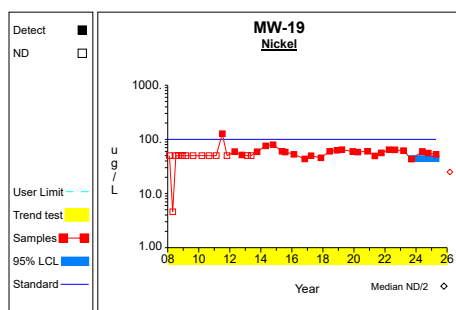
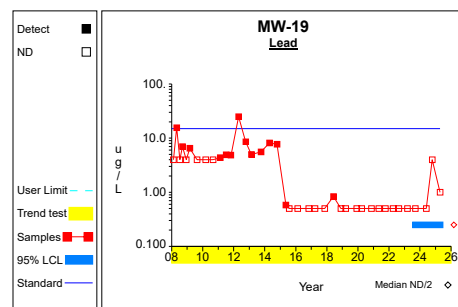
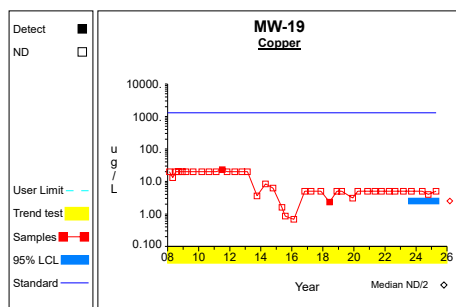
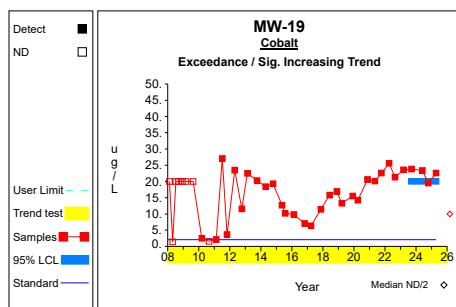
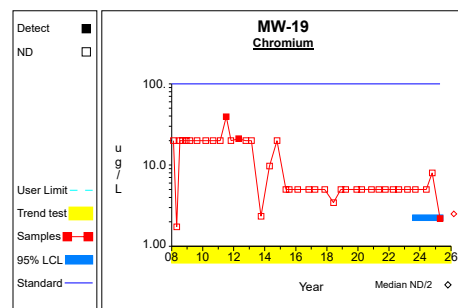
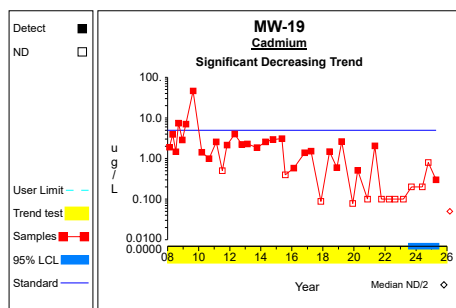
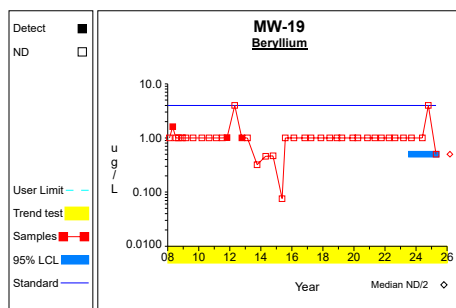
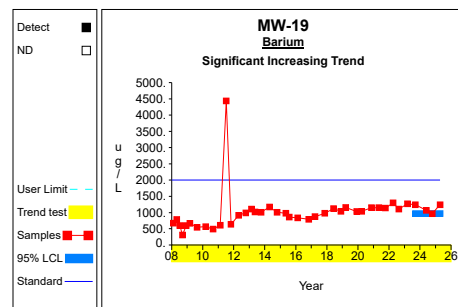
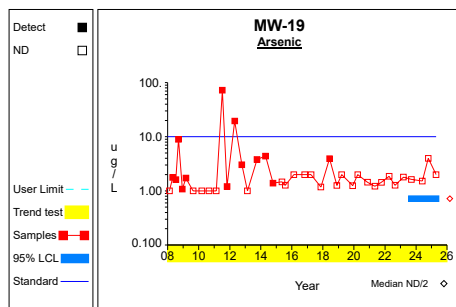
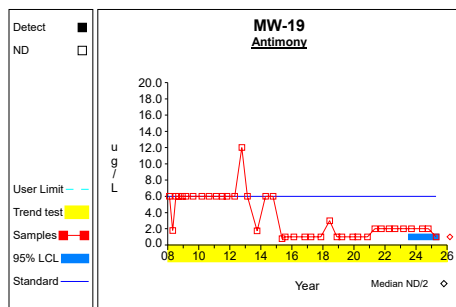
Confidence Limits (Assessment)



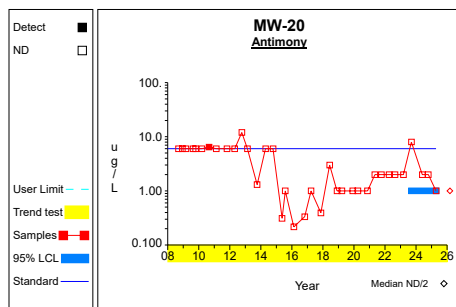
Confidence Limits (Assessment)



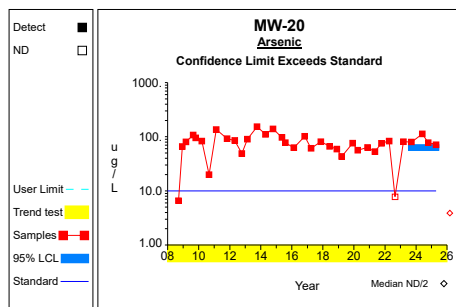
Confidence Limits (Assessment)



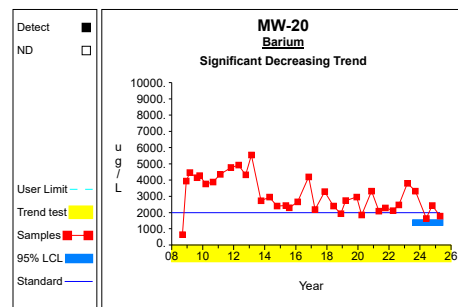
Confidence Limits (Assessment)



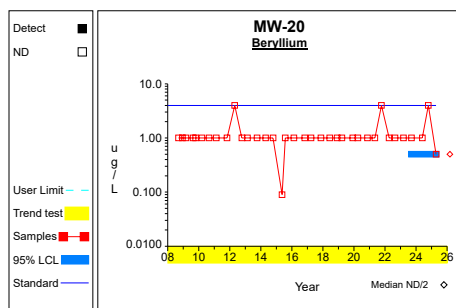
Graph 61



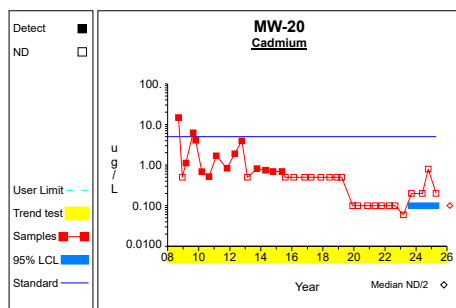
Graph 62



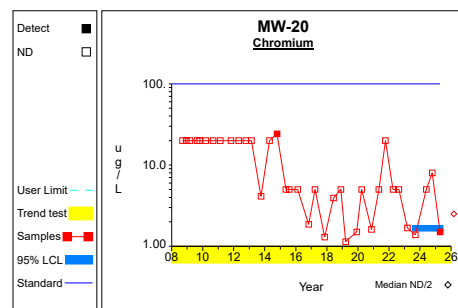
Graph 63



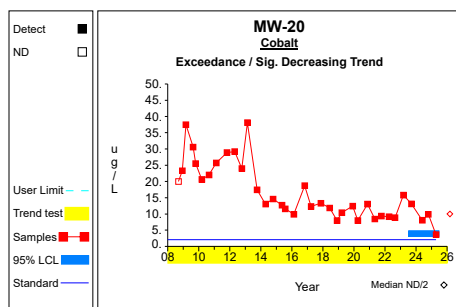
Graph 64



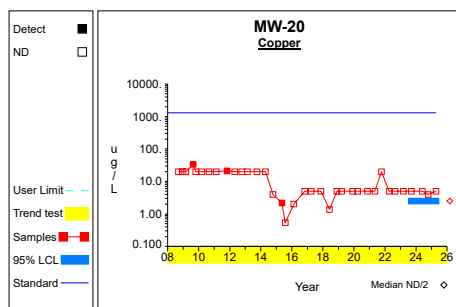
Graph 65



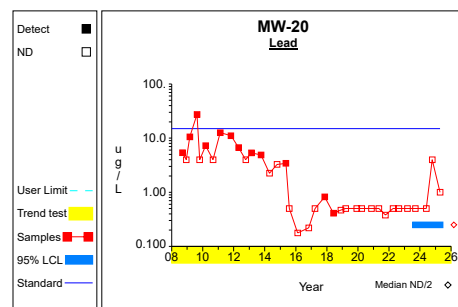
Graph 66



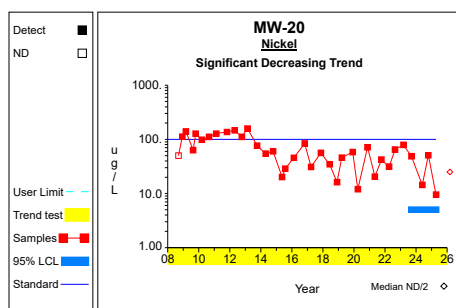
Graph 67



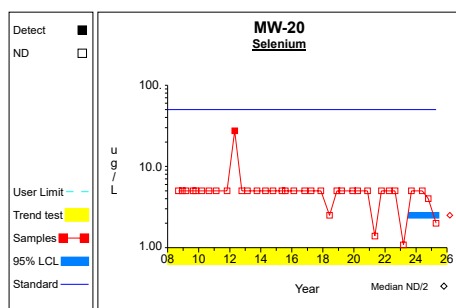
Graph 68



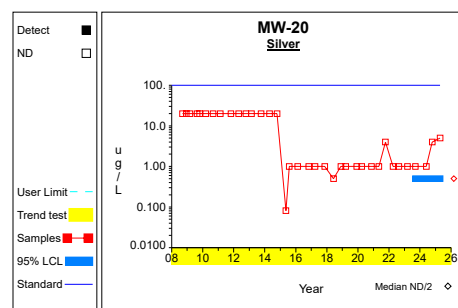
Graph 69



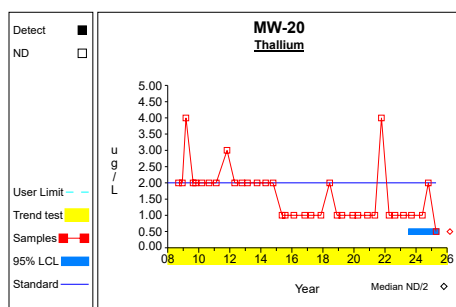
Graph 70



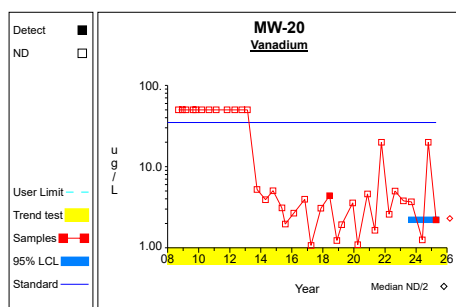
Graph 71



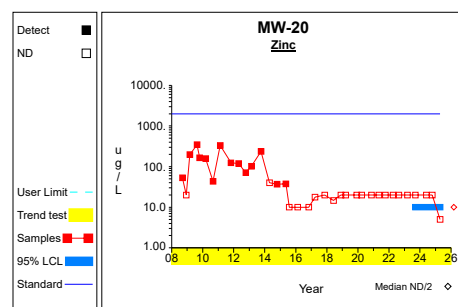
Graph 72



Graph 73

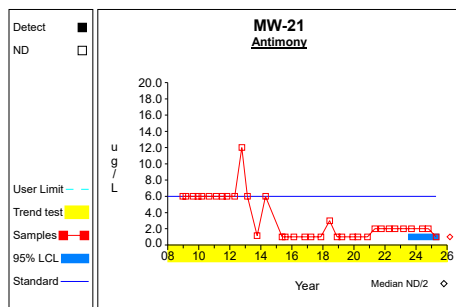


Graph 74

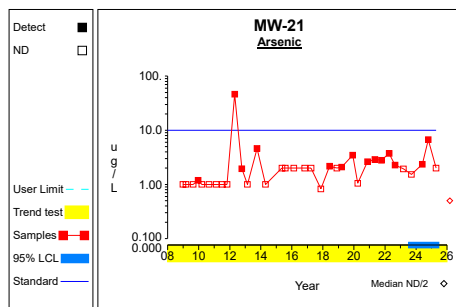


Graph 75

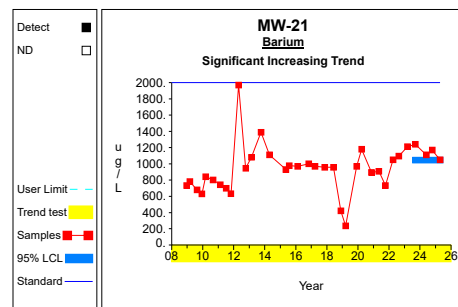
Confidence Limits (Assessment)



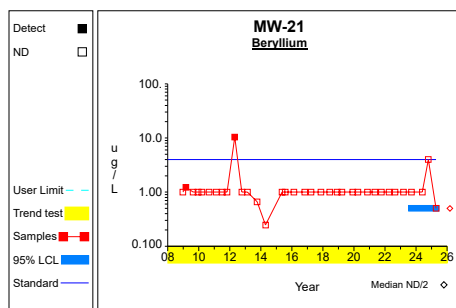
Graph 76



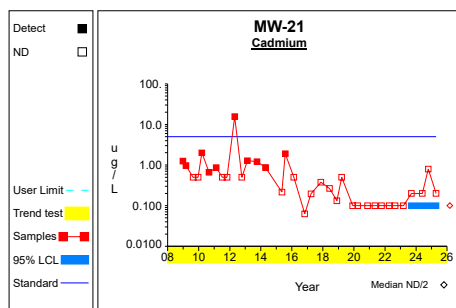
Graph 77



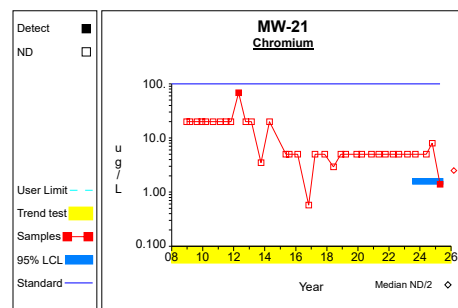
Graph 78



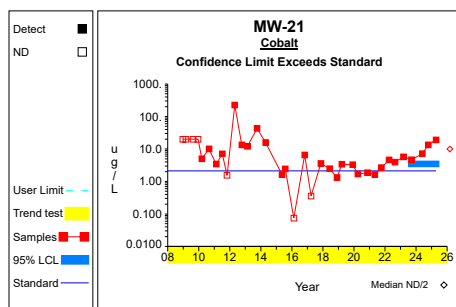
Graph 79



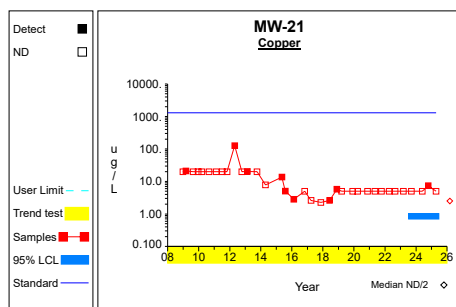
Graph 80



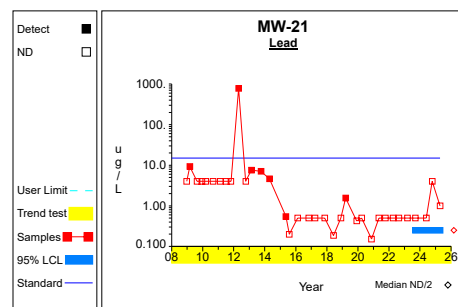
Graph 81



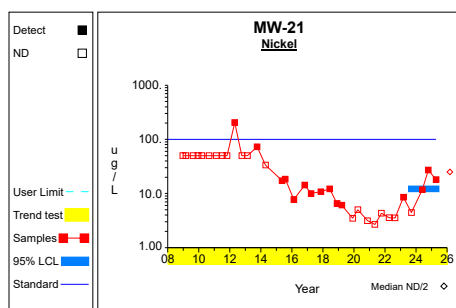
Graph 82



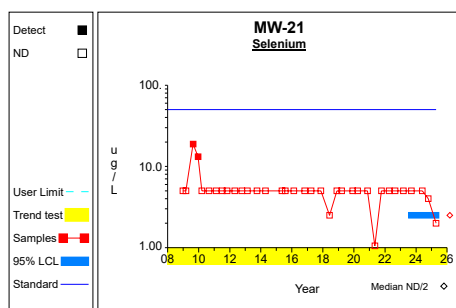
Graph 83



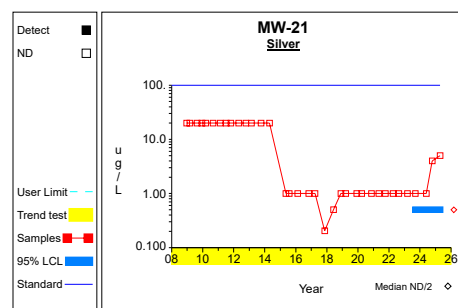
Graph 84



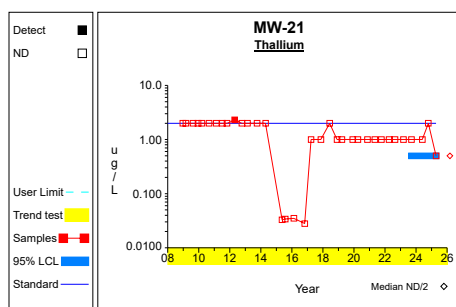
Graph 85



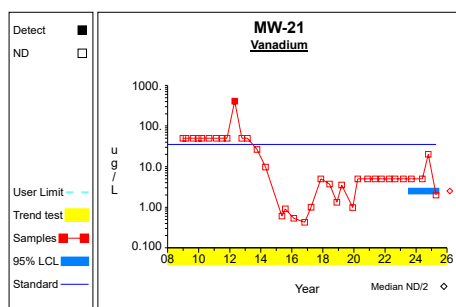
Graph 86



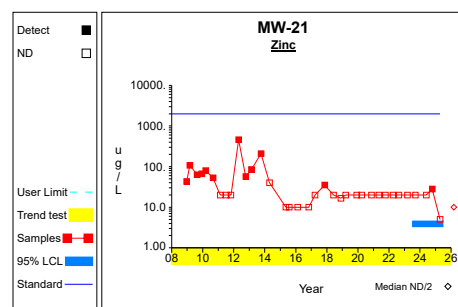
Graph 87



Graph 88

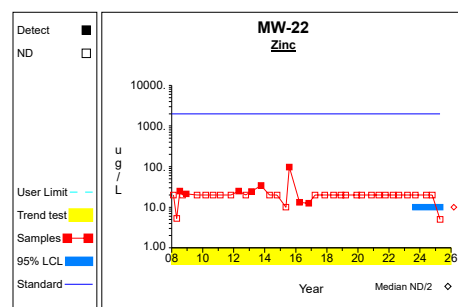
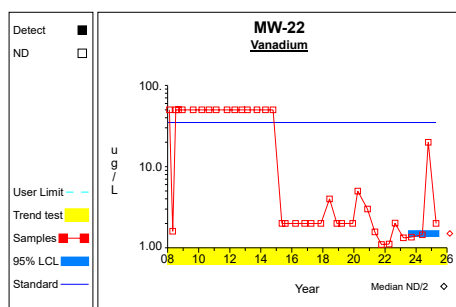
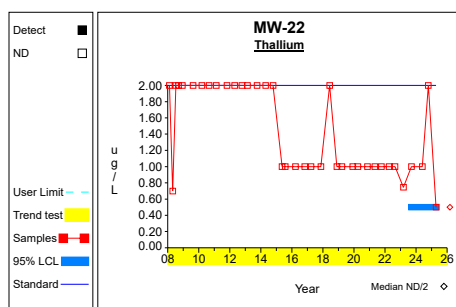
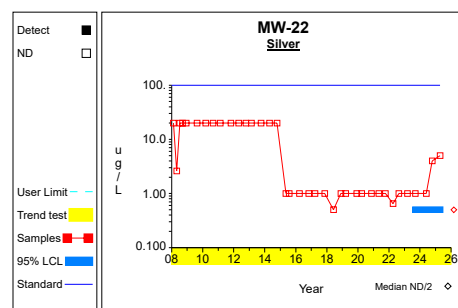
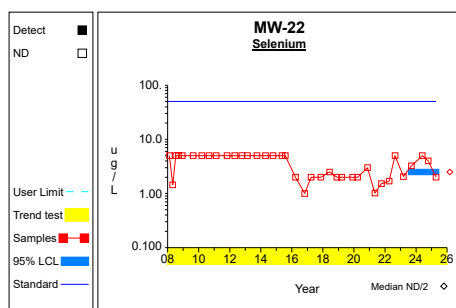
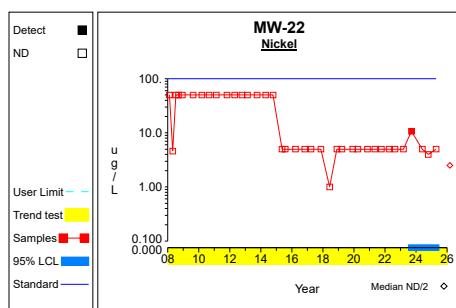
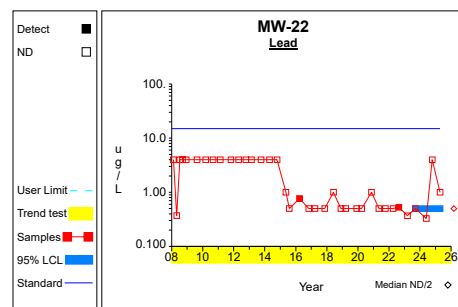
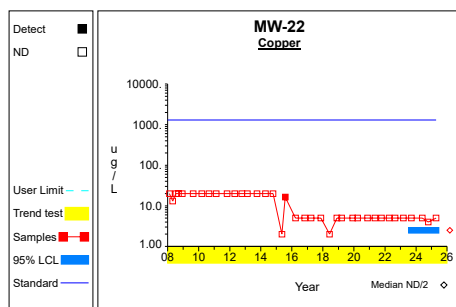
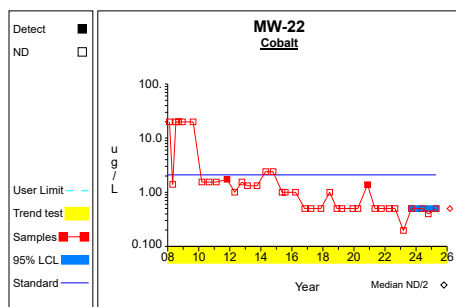
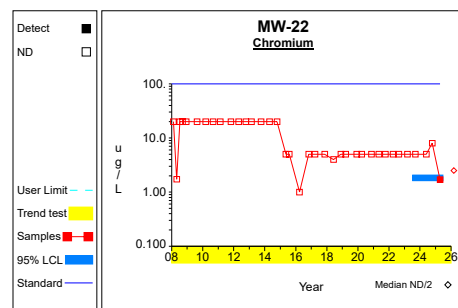
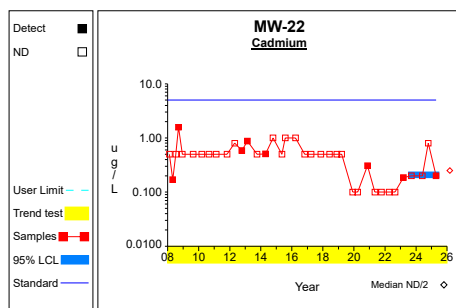
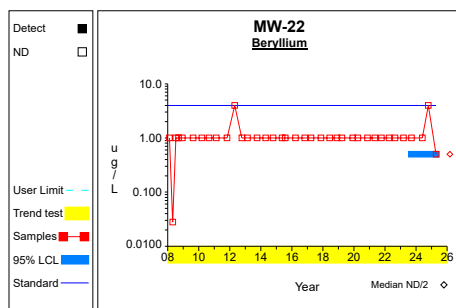
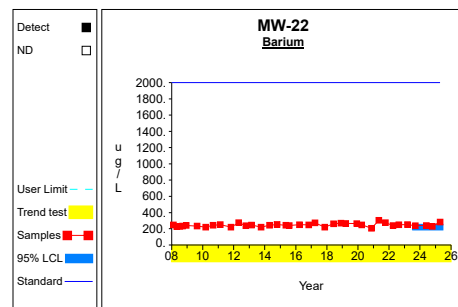
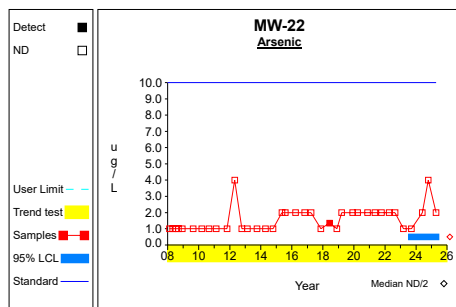
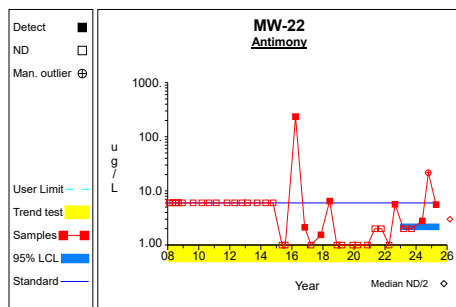


Graph 89

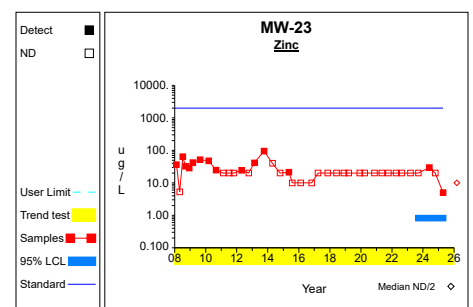
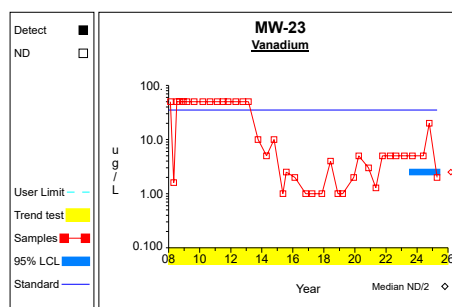
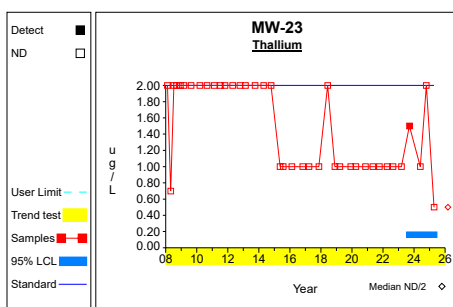
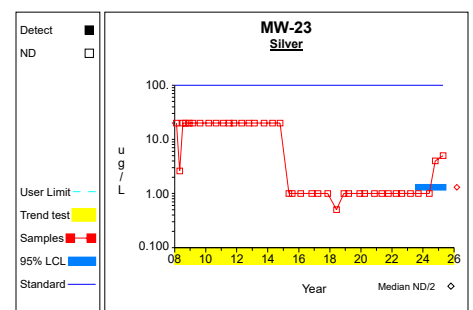
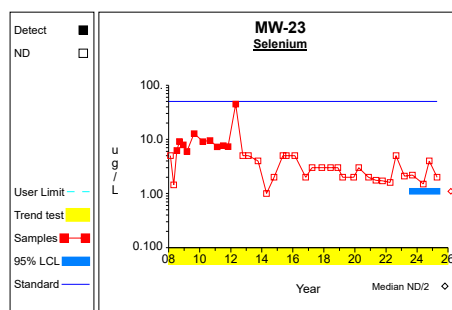
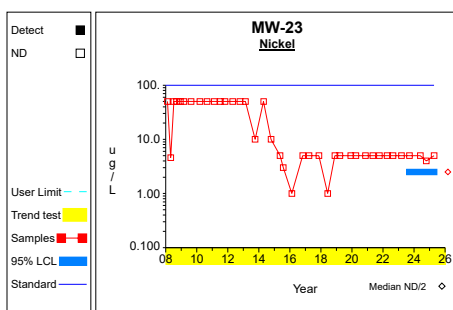
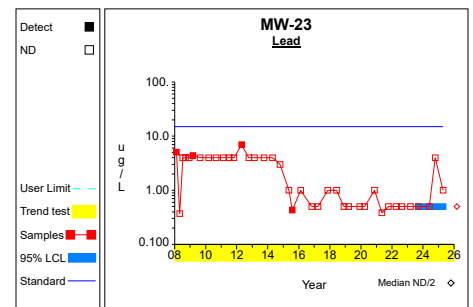
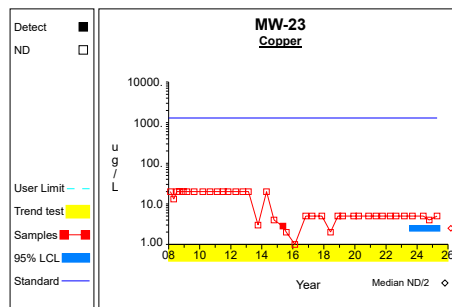
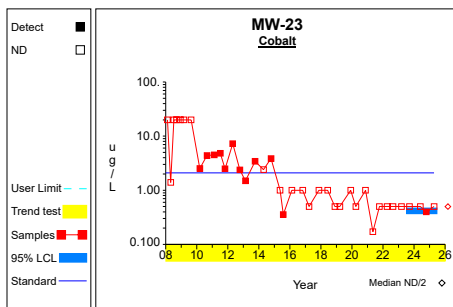
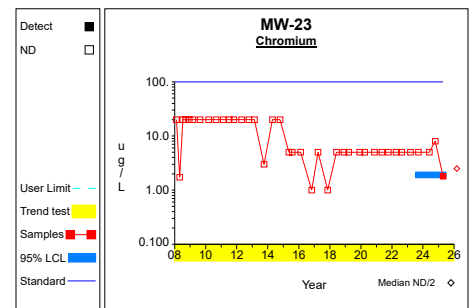
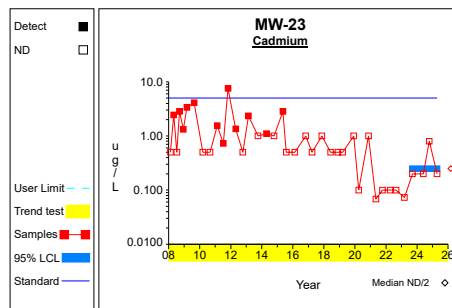
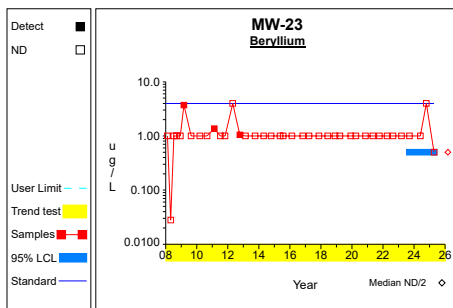
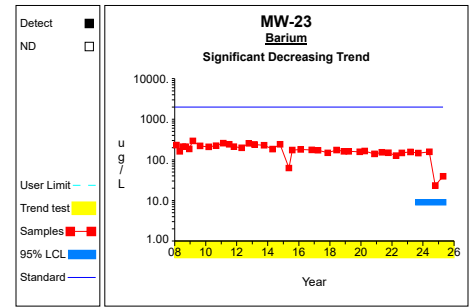
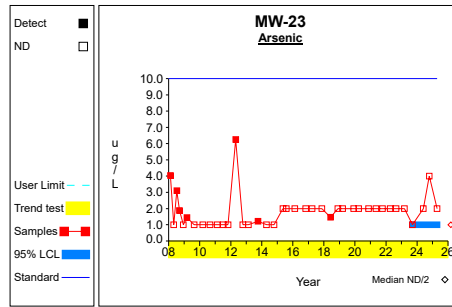
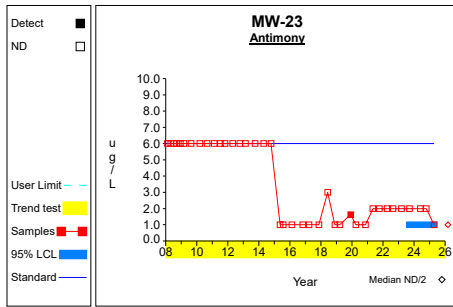


Graph 90

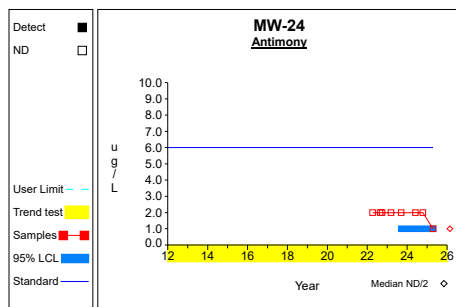
Confidence Limits (Assessment)



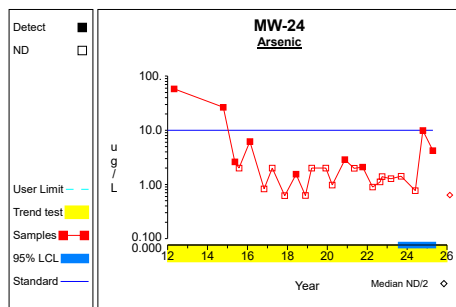
Confidence Limits (Assessment)



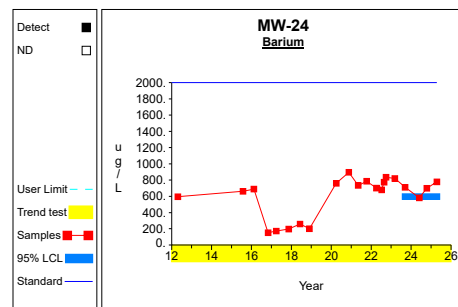
Confidence Limits (Assessment)



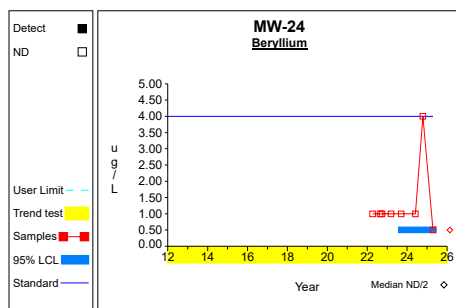
Graph 121



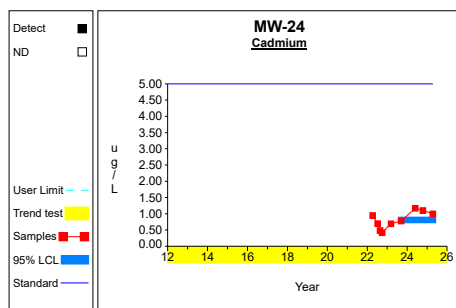
Graph 122



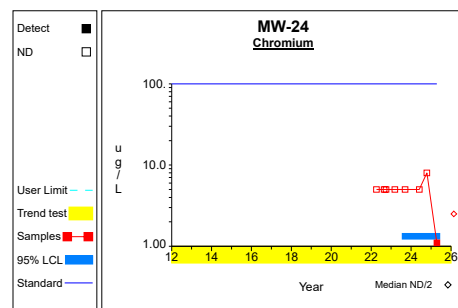
Graph 123



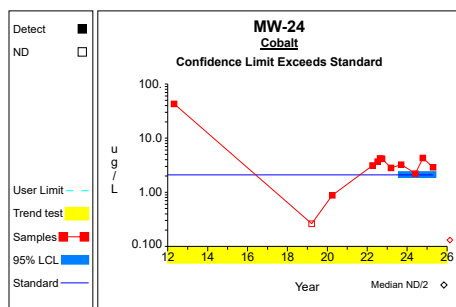
Graph 124



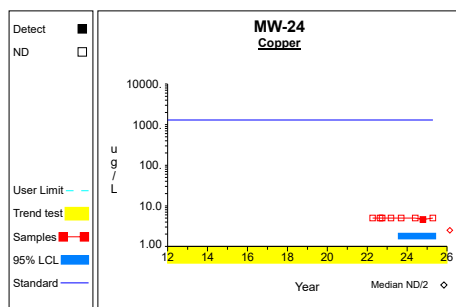
Graph 125



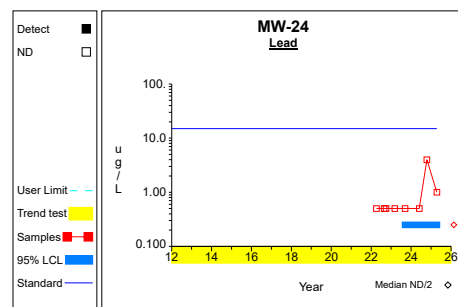
Graph 126



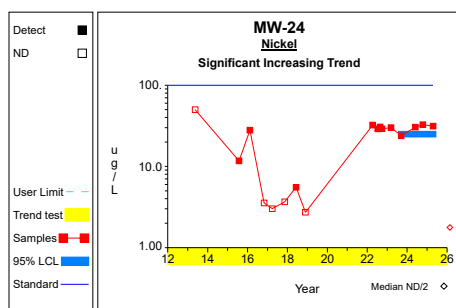
Graph 127



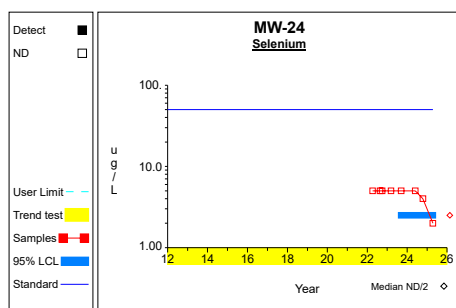
Graph 128



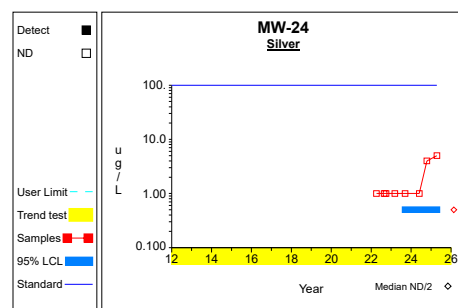
Graph 129



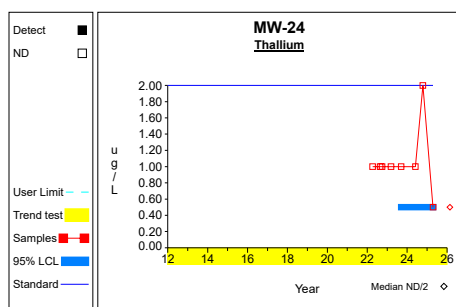
Graph 130



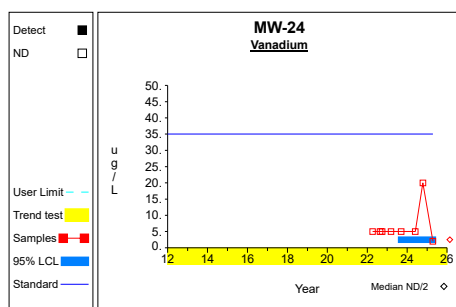
Graph 131



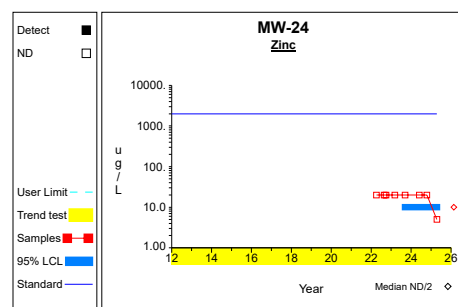
Graph 132



Graph 133

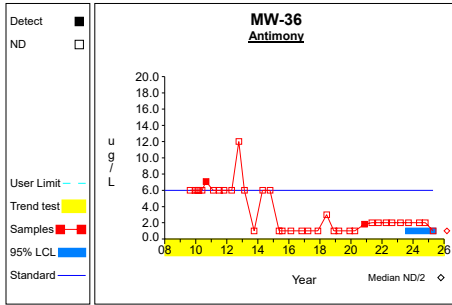


Graph 134

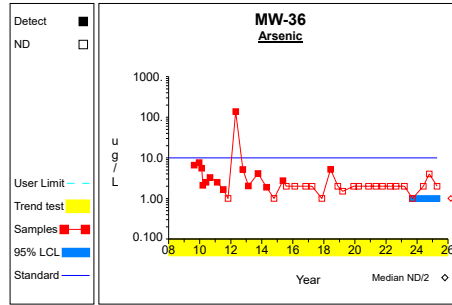


Graph 135

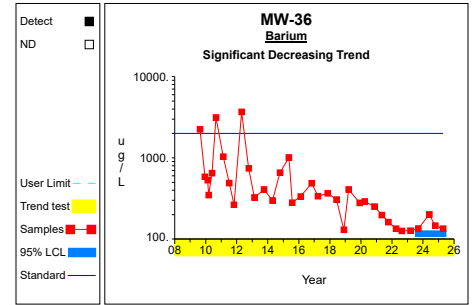
Confidence Limits (Assessment)



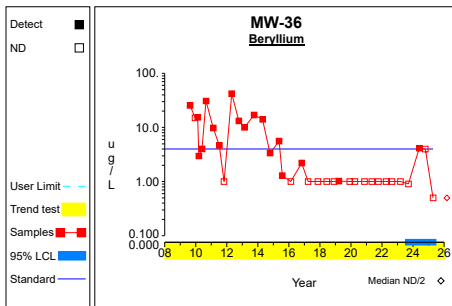
Graph 136



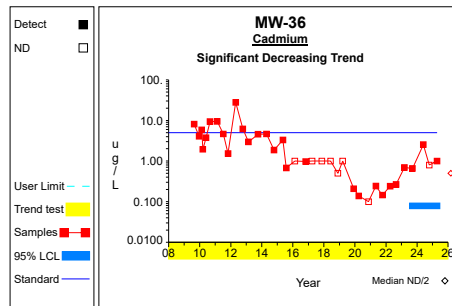
Graph 137



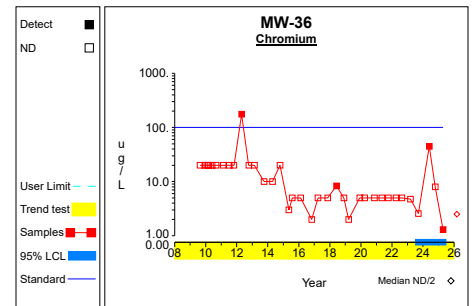
Graph 138



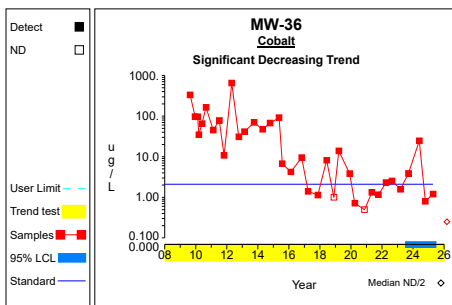
Graph 139



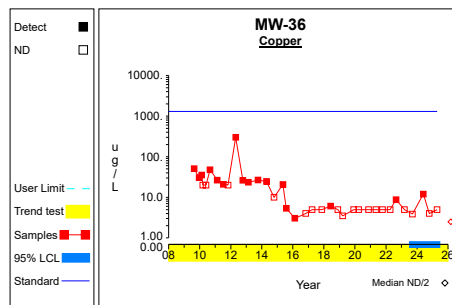
Graph 140



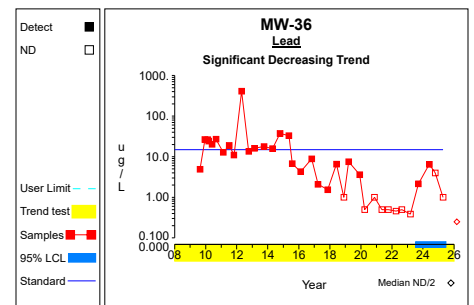
Graph 141



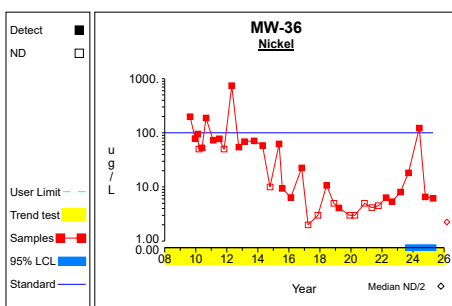
Graph 142



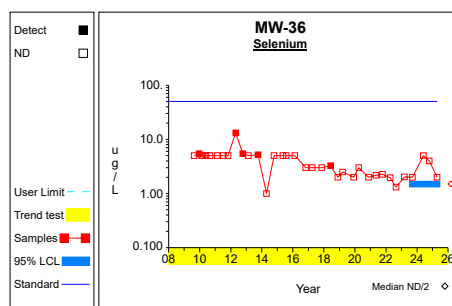
Graph 143



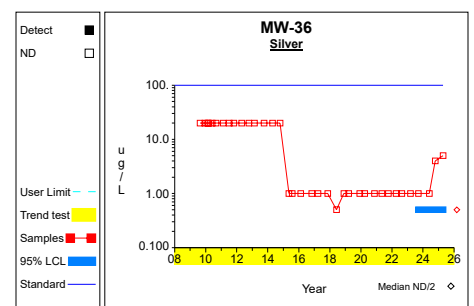
Graph 144



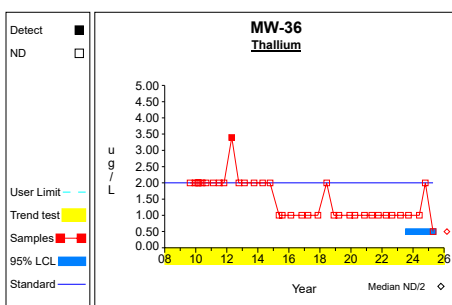
Graph 145



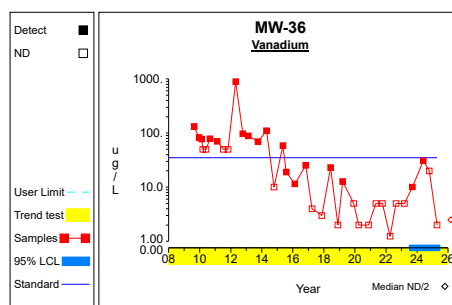
Graph 146



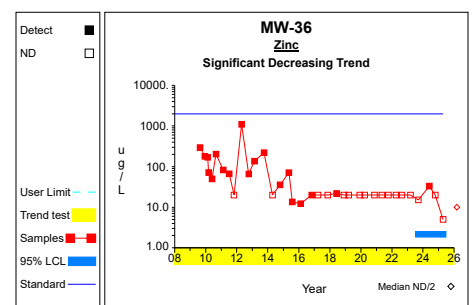
Graph 147



Graph 148

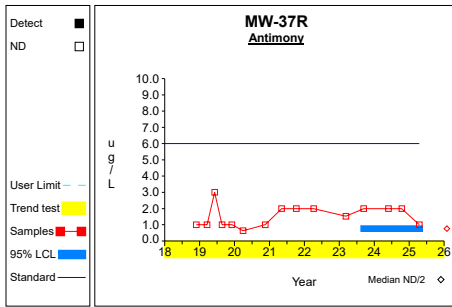


Graph 149

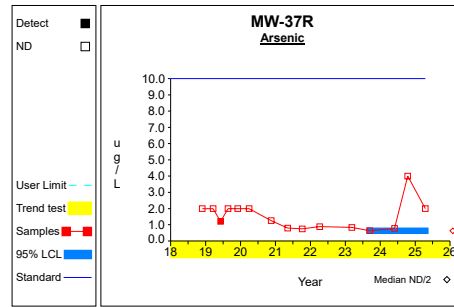


Graph 150

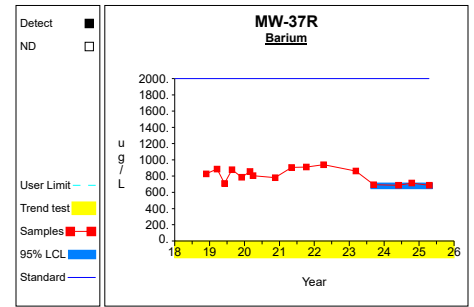
Confidence Limits (Assessment)



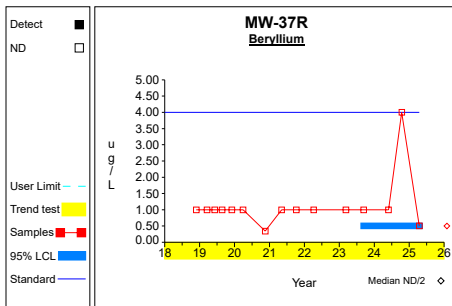
Graph 151



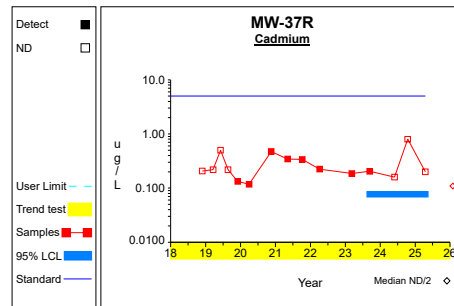
Graph 152



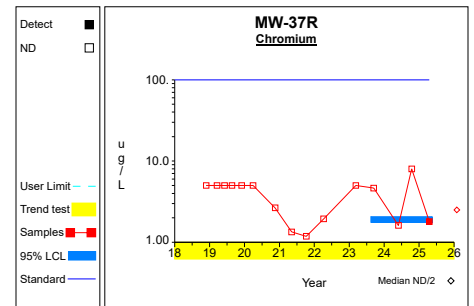
Graph 153



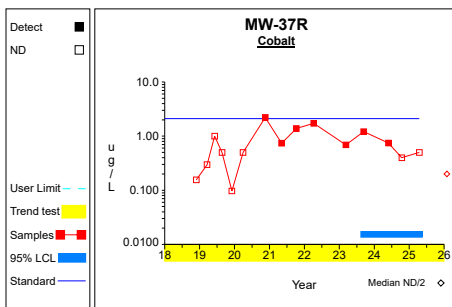
Graph 154



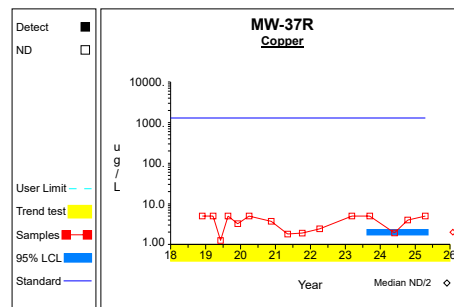
Graph 155



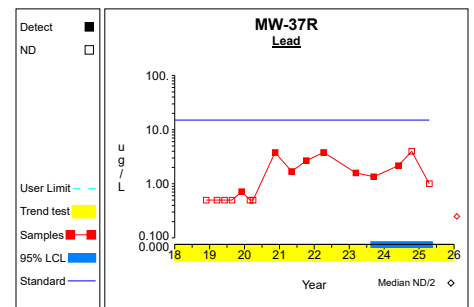
Graph 156



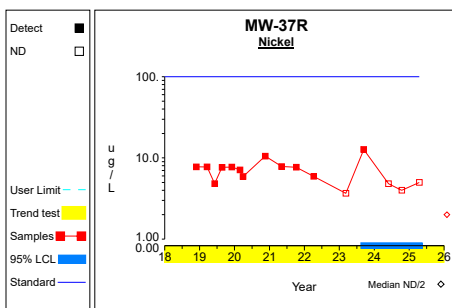
Graph 157



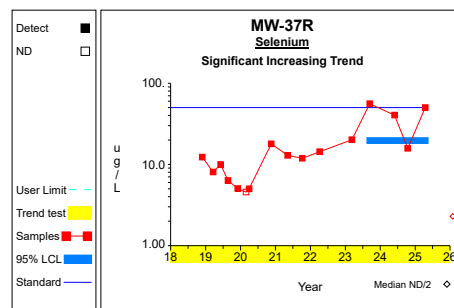
Graph 158



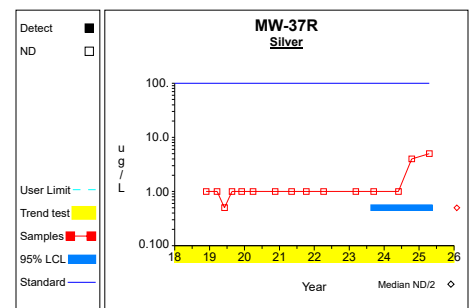
Graph 159



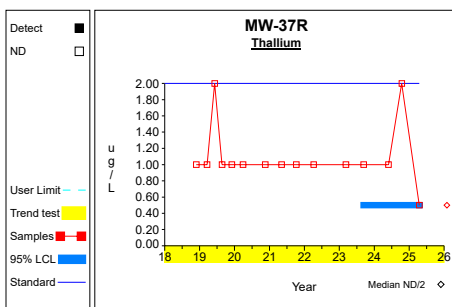
Graph 160



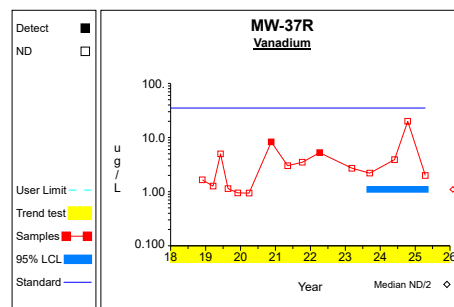
Graph 161



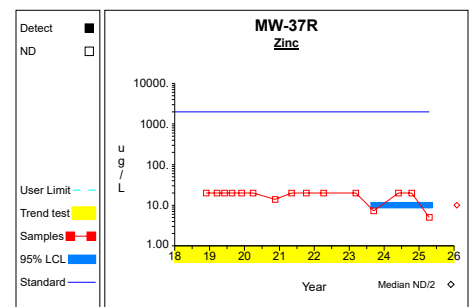
Graph 162



Graph 163

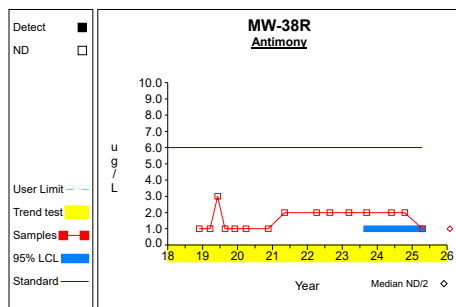


Graph 164

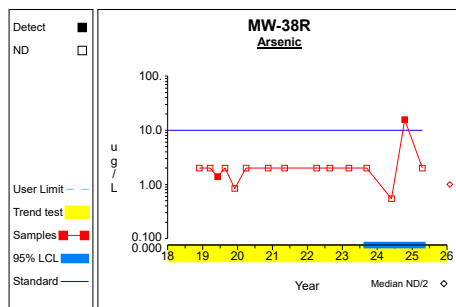


Graph 165

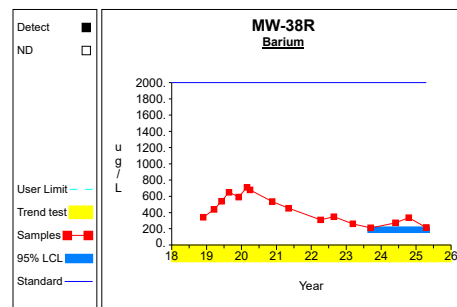
Confidence Limits (Assessment)



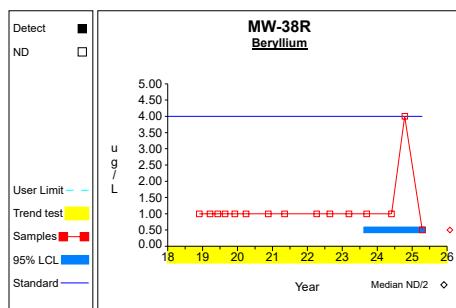
Graph 166



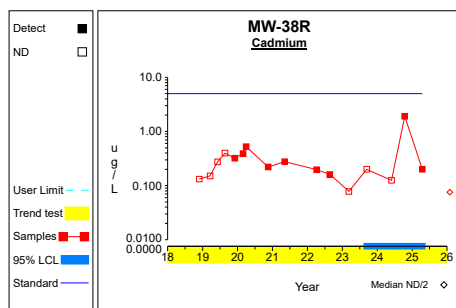
Graph 167



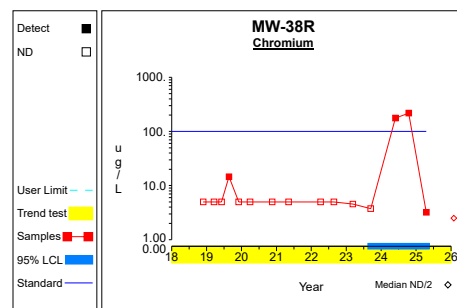
Graph 168



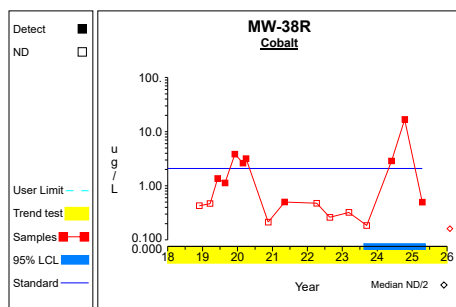
Graph 169



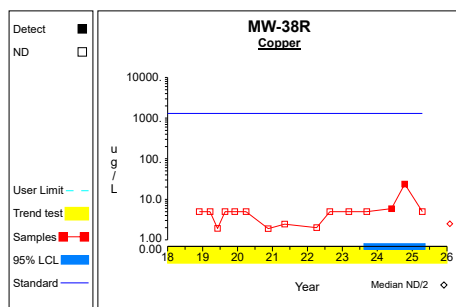
Graph 170



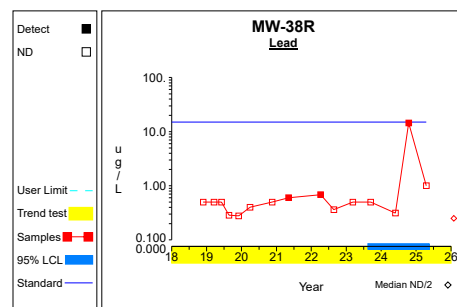
Graph 171



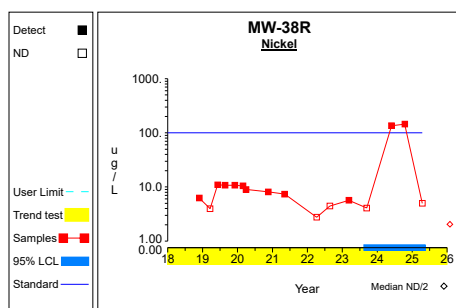
Graph 172



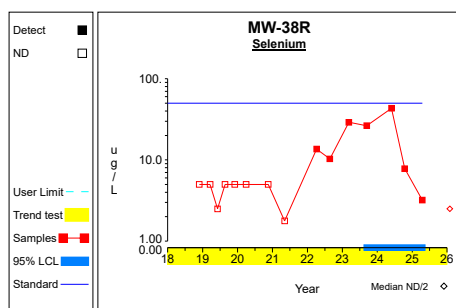
Graph 173



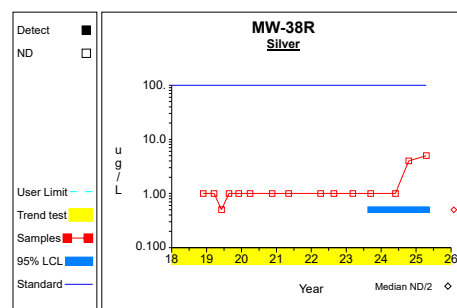
Graph 174



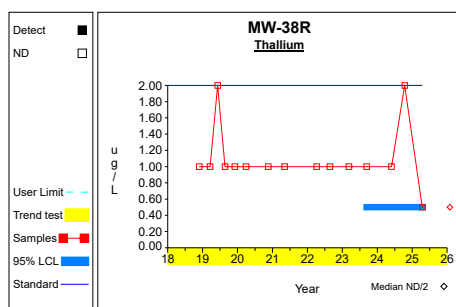
Graph 175



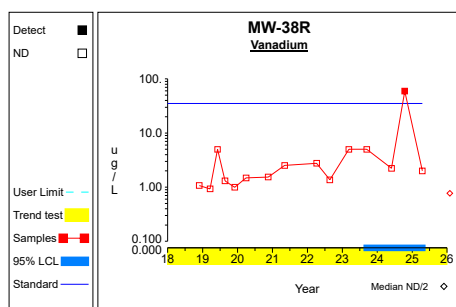
Graph 176



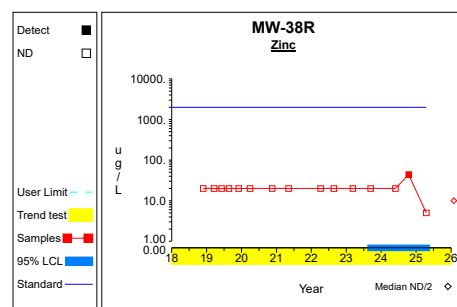
Graph 177



Graph 178

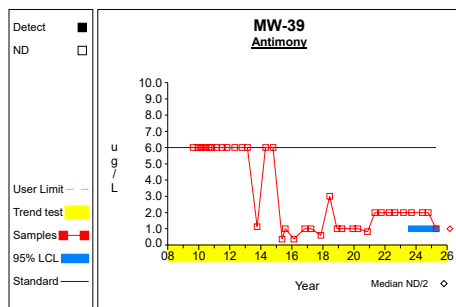


Graph 179

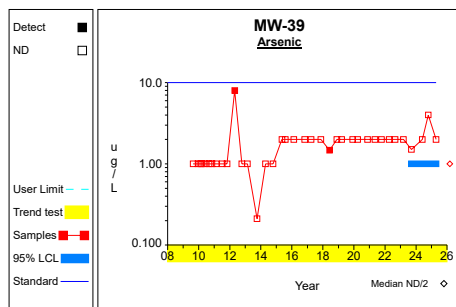


Graph 180

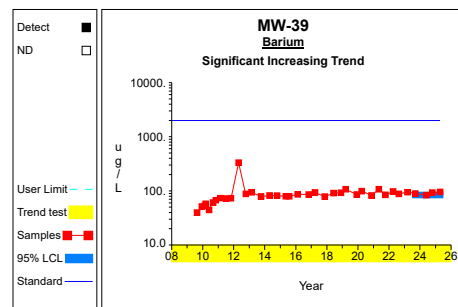
Confidence Limits (Assessment)



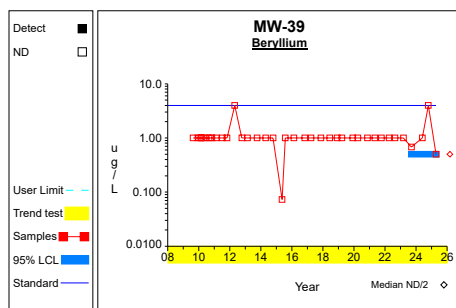
Graph 181



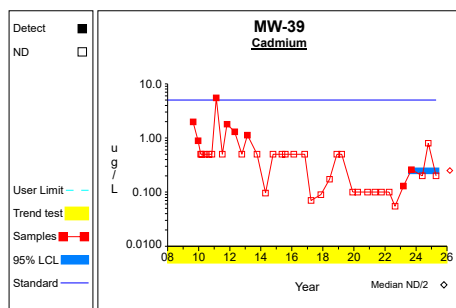
Graph 182



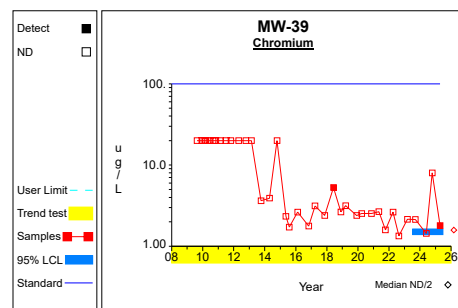
Graph 183



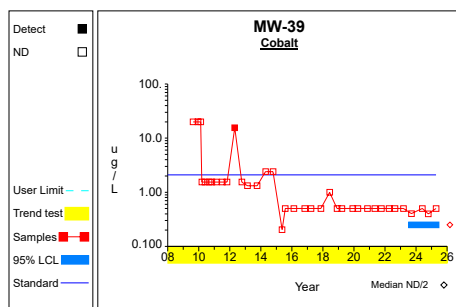
Graph 184



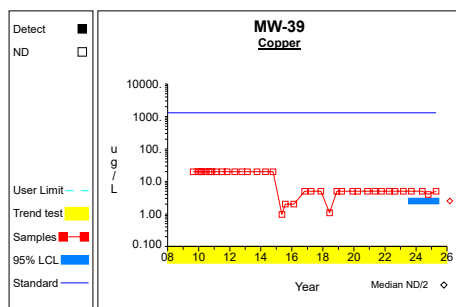
Graph 185



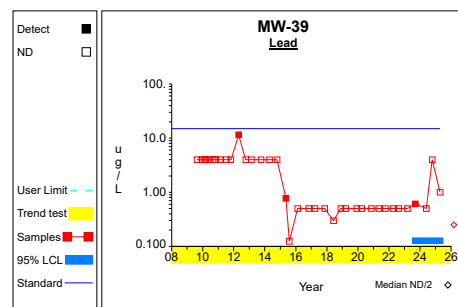
Graph 186



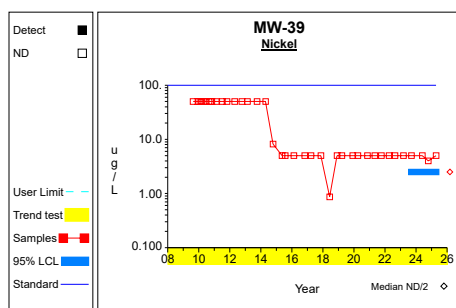
Graph 187



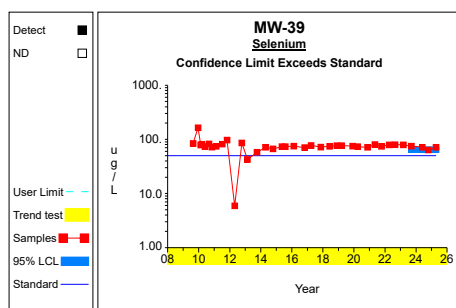
Graph 188



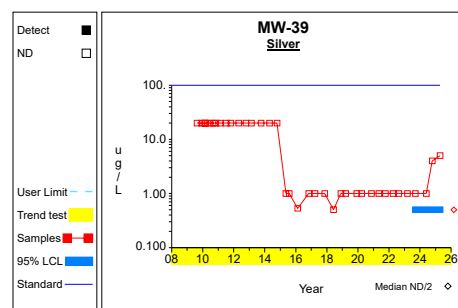
Graph 189



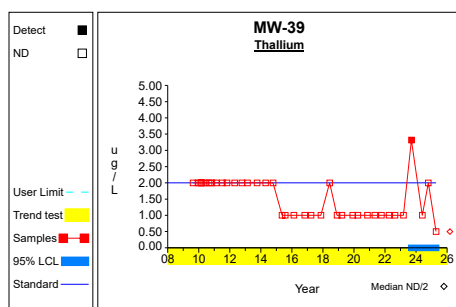
Graph 190



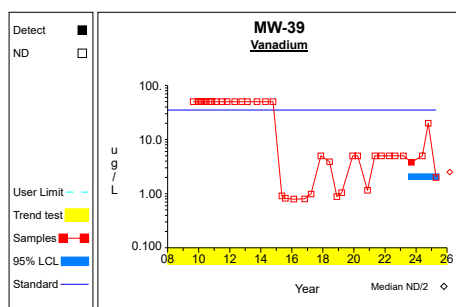
Graph 191



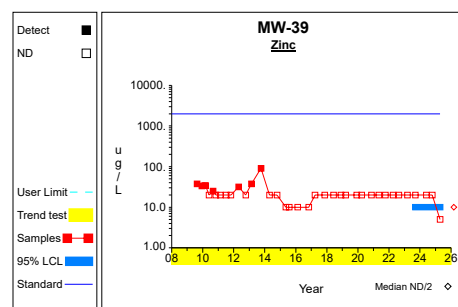
Graph 192



Graph 193

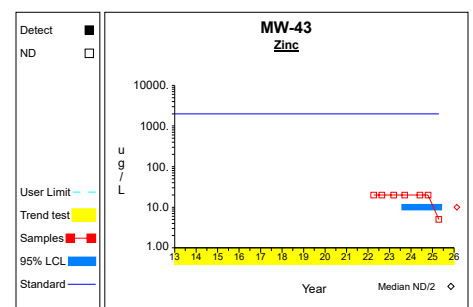
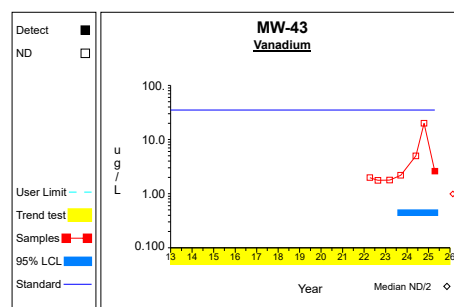
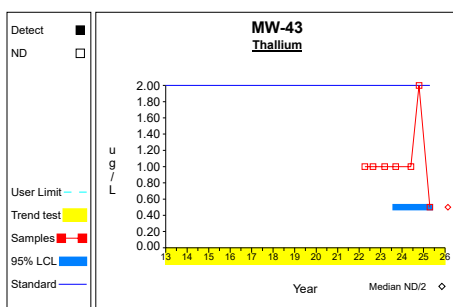
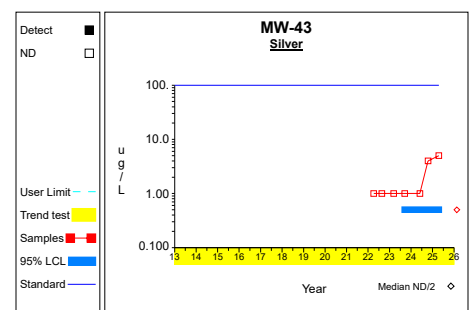
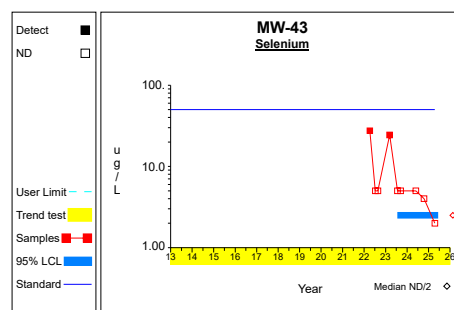
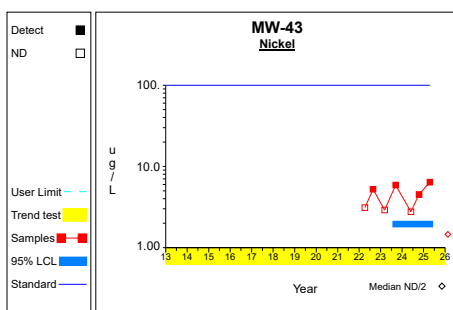
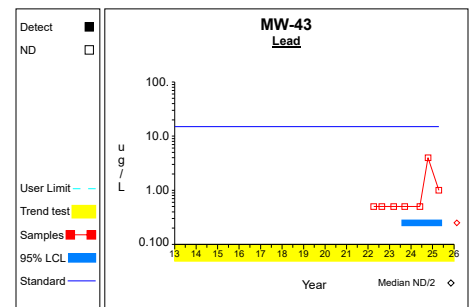
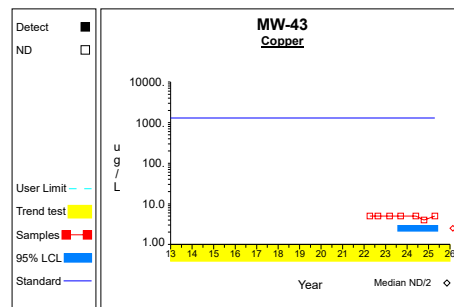
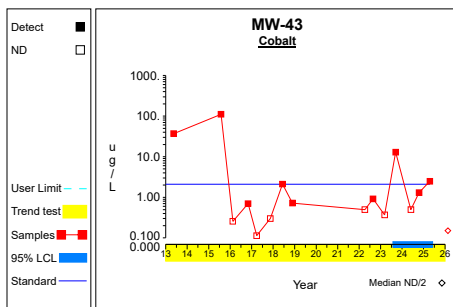
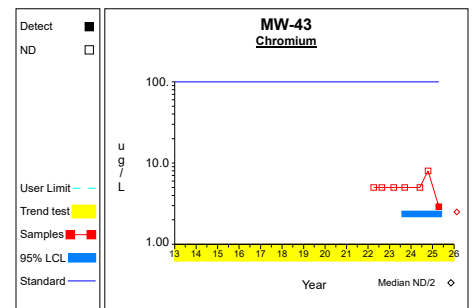
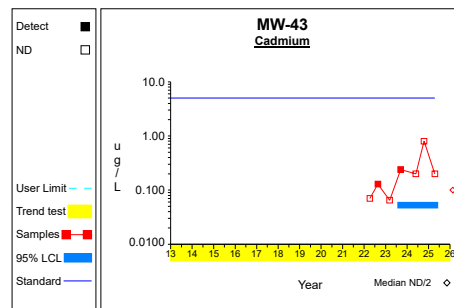
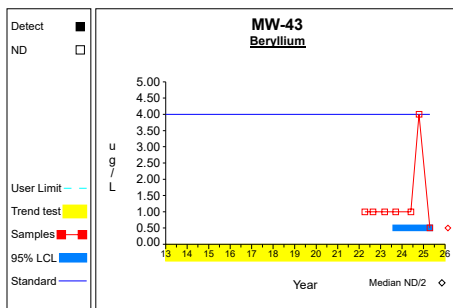
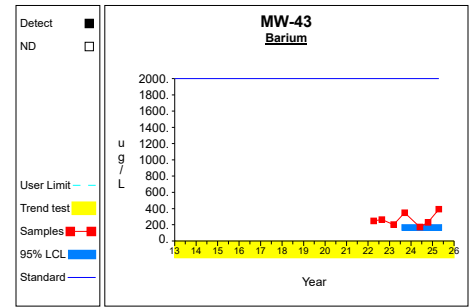
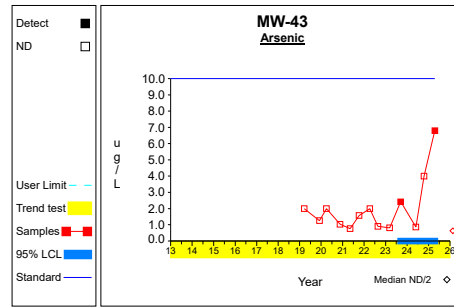
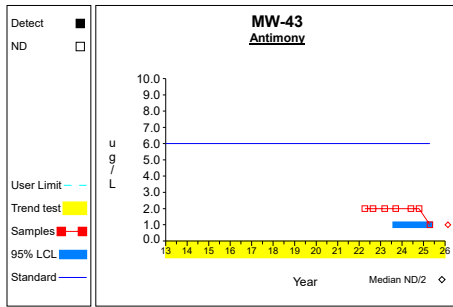


Graph 194



Graph 195

Confidence Limits (Assessment)



Attachment F

Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Acetone	MW-11	5/12/2015		16.5	10.0	ug/L
Benzene	MW-11	2/11/2008		.290	.001	ug/L
Benzene	MW-11	4/30/2008		.180	.100	ug/L
Benzene	MW-11	7/09/2008		.340	.001	ug/L
Benzene	MW-11	3/03/2009		.830	.001	ug/L
Chlorobenzene	MW-11	2/11/2008		.380	.001	ug/L
Chlorobenzene	MW-11	4/30/2008		.210	.001	ug/L
Chlorodibromomethane	MW-11	2/11/2008		.300	.001	ug/L
cis-1,2-Dichloroethene	MW-11	2/11/2008		1.12	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	7/09/2008		1.36	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	12/10/2008		1.28	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	3/03/2009		2.36	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	10/03/2013		1.18	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	10/03/2013		1.07	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	4/22/2014		1.24	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	11/13/2017		1.02	1.00	ug/L
Methylene Chloride	MW-11	7/09/2008		.50	.45	ug/L
Tetrachloroethene	MW-11	2/11/2008		.76	.38	ug/L
Vinyl Chloride	MW-11	2/11/2008		.390	.001	ug/L
Vinyl Chloride	MW-11	7/09/2008		.280	.001	ug/L
1,4-Dichlorobenzene	MW-12	12/10/2008		1.60	1.00	ug/L
1,4-Dichlorobenzene	MW-12	3/03/2009		1.38	1.00	ug/L
1,4-Dichlorobenzene	MW-12	8/21/2009		1.10	1.00	ug/L
1,4-Dichlorobenzene	MW-12	11/04/2009		1.01	1.00	ug/L
Acetone	MW-12	3/28/2016		14.7	10.0	ug/L
Benzene	MW-12	12/10/2008		1.00	1.00	ug/L
Benzene	MW-12	3/03/2009		.90	.10	ug/L
Benzene	MW-12	11/04/2009		.65	.10	ug/L
Benzene	MW-12	8/31/2010		.58	.10	ug/L
Bis[2-ethylhexyl]phthalate	MW-12	3/28/2016		13.9	1.0	ug/L
Bis[2-ethylhexyl]phthalate	MW-12	7/12/2017		15.6	1.0	ug/L
Chlorobenzene	MW-12	3/03/2009		1.25	1.00	ug/L
Chlorobenzene	MW-12	5/06/2021		1.01	1.00	ug/L
Chlorobenzene	MW-12	4/06/2022		1.26	1.00	ug/L
cis-1,2-Dichloroethene	MW-12	12/10/2008		3.62	1.00	ug/L
cis-1,2-Dichloroethene	MW-12	3/03/2009		2.79	1.00	ug/L
cis-1,2-Dichloroethene	MW-12	8/21/2009		1.57	1.00	ug/L
cis-1,2-Dichloroethene	MW-12	11/04/2009		1.48	1.00	ug/L
1,2-Dichloroethane	MW-15R	3/18/2019		1.44	1.00	ug/L
1,1-Dichloroethane	MW-19	7/07/2011		1.18	1.00	ug/L
1,1-Dichloroethane	MW-19	10/03/2013		1.05	1.00	ug/L
1,1-Dichloroethane	MW-19	4/22/2014		2.28	1.00	ug/L
1,1-Dichloroethane	MW-19	10/14/2014		1.26	1.00	ug/L
1,1-Dichloroethane	MW-19	5/12/2015		1.68	1.00	ug/L
1,1-Dichloroethane	MW-19	7/29/2015		1.18	1.00	ug/L
1,1-Dichloroethane	MW-19	2/15/2016		1.01	1.00	ug/L
1,1-Dichloroethane	MW-19	11/26/2018		1.04	1.00	ug/L
1,4-Dichlorobenzene	MW-19	7/07/2011		3.06	1.00	ug/L
4-Chloro-3-methylphenol	MW-19	7/07/2011		10.9	10.0	ug/L
Acetone	MW-19	9/11/2008		32.9	10.0	ug/L
Benzene	MW-19	7/07/2011		4.590	1.000	ug/L
Benzene	MW-19	2/20/2013		.987	.100	ug/L
Benzene	MW-19	10/03/2013		1.000	1.000	ug/L
Benzene	MW-19	4/22/2014		1.210	1.000	ug/L
Benzene	MW-19	10/14/2014		.996	.100	ug/L
Benzene	MW-19	5/12/2015		1.140	1.000	ug/L
Benzene	MW-19	7/29/2015		.821	.100	ug/L
Benzene	MW-19	2/15/2016		.640	.100	ug/L
Benzene	MW-19	11/13/2017		.704	.100	ug/L
Benzene	MW-19	11/26/2018		.750	.100	ug/L
Benzene	MW-19	11/26/2018		.553	.100	ug/L
Benzene	MW-19	11/17/2020		.557	.100	ug/L
Benzene	MW-19	5/06/2021		.824	.100	ug/L
Benzene	MW-19	10/07/2021		.856	.100	ug/L
Benzene	MW-19	4/06/2022		.930	.100	ug/L
Benzene	MW-19	8/23/2022		.588	.100	ug/L
Benzene	MW-19	3/08/2023		.912	.100	ug/L
Benzene	MW-19	9/13/2023		.733	.100	ug/L
Benzene	MW-19	5/29/2024		.624	.100	ug/L
Chlorobenzene	MW-19	7/07/2011		7.35	1.00	ug/L
Chlorobenzene	MW-19	5/06/2021		1.21	1.00	ug/L
Chlorobenzene	MW-19	10/07/2021		1.45	1.00	ug/L
Chlorobenzene	MW-19	4/06/2022		1.92	1.00	ug/L
Chlorobenzene	MW-19	3/08/2023		1.89	1.00	ug/L
Chlorobenzene	MW-19	3/08/2023		1.86	1.00	ug/L
Chlorobenzene	MW-19	9/13/2023		1.49	1.00	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-19	5/29/2024		1.16	1.00	ug/L
Chlorobenzene	MW-19	10/15/2024		1.20	1.00	ug/L
Chlorobenzene	MW-19	4/16/2025		1.40	1.00	ug/L
Chlorodibromomethane	MW-19	2/11/2008		.32	.10	ug/L
Chloroethane	MW-19	2/11/2008		.79	.10	ug/L
Chloroethane	MW-19	4/30/2008		.54	.10	ug/L
Ethylbenzene	MW-19	7/07/2011		1.73	1.00	ug/L
gamma-Chlordane	MW-19	10/09/2012		.0633	.0100	ug/L
gamma-Chlordane	MW-19	10/03/2013		.1370	.1000	ug/L
gamma-Chlordane	MW-19	12/18/2013		.1240	.1000	ug/L
gamma-Chlordane	MW-19	4/22/2014		.1760	.1000	ug/L
gamma-Chlordane	MW-19	3/30/2020		.0634	.0100	ug/L
gamma-Chlordane	MW-19	5/06/2021		.1190	.1000	ug/L
Methylene Chloride	MW-19	7/09/2008		.48	.10	ug/L
Naphthalene	MW-19	7/07/2011		5.41	1.00	ug/L
Tetrachloroethene	MW-19	2/11/2008		.77	.10	ug/L
1,4-Dichlorobenzene	MW-20	10/03/2013		2.88	1.00	ug/L
1,4-Dichlorobenzene	MW-20	10/14/2014		1.92	1.00	ug/L
1,4-Dichlorobenzene	MW-20	7/29/2015		1.56	1.00	ug/L
1,4-Dichlorobenzene	MW-20	6/06/2018		1.99	1.00	ug/L
1,4-Dichlorobenzene	MW-20	6/06/2018		2.11	1.00	ug/L
1,4-Dichlorobenzene	MW-20	11/27/2018		1.98	1.00	ug/L
1,4-Dichlorobenzene	MW-20	3/30/2020		1.81	1.00	ug/L
1,4-Dichlorobenzene	MW-20	10/07/2021		2.37	1.00	ug/L
1,4-Dichlorobenzene	MW-20	4/06/2022		1.94	1.00	ug/L
1,4-Dichlorobenzene	MW-20	8/23/2022		1.79	1.00	ug/L
1,4-Dichlorobenzene	MW-20	3/08/2023		2.40	1.00	ug/L
1,4-Dichlorobenzene	MW-20	9/13/2023		2.48	1.00	ug/L
1,4-Dichlorobenzene	MW-20	5/29/2024		1.87	1.00	ug/L
1,4-Dichlorobenzene	MW-20	5/29/2024		1.98	1.00	ug/L
1,4-Dichlorobenzene	MW-20	10/15/2024		3.10	1.00	ug/L
1,4-Dichlorobenzene	MW-20	4/16/2025		1.60	1.00	ug/L
4,4'-DDD	MW-20	8/31/2010		.0340	.0100	ug/L
4,4'-DDD	MW-20	10/09/2012		.0478	.0100	ug/L
4-Chloro-3-methylphenol	MW-20	8/31/2010		11	10	ug/L
Acetone	MW-20	3/11/2010		17.9	10.0	ug/L
Acetone	MW-20	2/16/2011		100.0	10.0	ug/L
Acetone	MW-20	2/20/2013		24.4	10.0	ug/L
Acetone	MW-20	5/12/2015		52.1	10.0	ug/L
Acetone	MW-20	6/06/2018		10.6	10.0	ug/L
Benzene	MW-20	12/10/2008		4.05	1.00	ug/L
Benzene	MW-20	3/03/2009		4.15	1.00	ug/L
Benzene	MW-20	8/21/2009		3.40	1.00	ug/L
Benzene	MW-20	10/21/2009		.92	.10	ug/L
Benzene	MW-20	3/11/2010		3.72	1.00	ug/L
Benzene	MW-20	8/31/2010		3.80	1.00	ug/L
Benzene	MW-20	2/16/2011		3.85	1.00	ug/L
Benzene	MW-20	10/27/2011		3.65	1.00	ug/L
Benzene	MW-20	4/26/2012		4.30	1.00	ug/L
Benzene	MW-20	10/09/2012		3.40	1.00	ug/L
Benzene	MW-20	2/20/2013		4.09	1.00	ug/L
Benzene	MW-20	10/03/2013		2.89	1.00	ug/L
Benzene	MW-20	10/14/2014		3.89	1.00	ug/L
Benzene	MW-20	5/12/2015		2.27	1.00	ug/L
Benzene	MW-20	7/29/2015		2.93	1.00	ug/L
Benzene	MW-20	10/31/2016		3.72	1.00	ug/L
Benzene	MW-20	3/27/2017		2.62	1.00	ug/L
Benzene	MW-20	6/06/2018		2.90	1.00	ug/L
Benzene	MW-20	6/06/2018		2.86	1.00	ug/L
Benzene	MW-20	11/27/2018		3.06	1.00	ug/L
Benzene	MW-20	3/18/2019		3.04	1.00	ug/L
Benzene	MW-20	12/02/2019		3.24	1.00	ug/L
Benzene	MW-20	3/30/2020		2.00	1.00	ug/L
Benzene	MW-20	5/06/2021		2.04	1.00	ug/L
Benzene	MW-20	10/07/2021		2.68	1.00	ug/L
Benzene	MW-20	10/07/2021		2.74	1.00	ug/L
Benzene	MW-20	4/06/2022		2.90	1.00	ug/L
Benzene	MW-20	8/23/2022		2.91	1.00	ug/L
Benzene	MW-20	3/08/2023		3.14	1.00	ug/L
Benzene	MW-20	9/13/2023		2.93	1.00	ug/L
Benzene	MW-20	5/29/2024		1.84	1.00	ug/L
Benzene	MW-20	5/29/2024		2.18	1.00	ug/L
Benzene	MW-20	10/15/2024		3.00	1.00	ug/L
Benzene	MW-20	4/16/2025		1.70	1.00	ug/L
Chlorobenzene	MW-20	3/03/2009		6.20	1.00	ug/L
Chlorobenzene	MW-20	8/21/2009		5.00	1.00	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-20	3/11/2010		5.81	1.00	ug/L
Chlorobenzene	MW-20	8/31/2010		6.85	1.00	ug/L
Chlorobenzene	MW-20	2/16/2011		7.25	1.00	ug/L
Chlorobenzene	MW-20	10/27/2011		7.55	1.00	ug/L
Chlorobenzene	MW-20	4/26/2012		6.90	1.00	ug/L
Chlorobenzene	MW-20	10/09/2012		7.05	1.00	ug/L
Chlorobenzene	MW-20	2/20/2013		7.78	1.00	ug/L
Chlorobenzene	MW-20	10/03/2013		5.57	1.00	ug/L
Chlorobenzene	MW-20	10/14/2014		4.54	1.00	ug/L
Chlorobenzene	MW-20	5/12/2015		1.88	1.00	ug/L
Chlorobenzene	MW-20	7/29/2015		2.83	1.00	ug/L
Chlorobenzene	MW-20	10/31/2016		4.59	1.00	ug/L
Chlorobenzene	MW-20	3/27/2017		2.88	1.00	ug/L
Chlorobenzene	MW-20	6/06/2018		3.54	1.00	ug/L
Chlorobenzene	MW-20	6/06/2018		3.43	1.00	ug/L
Chlorobenzene	MW-20	11/27/2018		3.36	1.00	ug/L
Chlorobenzene	MW-20	3/18/2019		3.67	1.00	ug/L
Chlorobenzene	MW-20	12/02/2019		3.80	1.00	ug/L
Chlorobenzene	MW-20	3/30/2020		2.69	1.00	ug/L
Chlorobenzene	MW-20	5/06/2021		2.29	1.00	ug/L
Chlorobenzene	MW-20	10/07/2021		3.60	1.00	ug/L
Chlorobenzene	MW-20	10/07/2021		3.36	1.00	ug/L
Chlorobenzene	MW-20	4/06/2022		3.27	1.00	ug/L
Chlorobenzene	MW-20	8/23/2022		3.29	1.00	ug/L
Chlorobenzene	MW-20	3/08/2023		4.44	1.00	ug/L
Chlorobenzene	MW-20	9/13/2023		4.34	1.00	ug/L
Chlorobenzene	MW-20	5/29/2024		2.64	1.00	ug/L
Chlorobenzene	MW-20	5/29/2024		2.87	1.00	ug/L
Chlorobenzene	MW-20	10/15/2024		4.70	1.00	ug/L
Chlorobenzene	MW-20	4/16/2025		2.30	1.00	ug/L
Chloroethane	MW-20	3/11/2010		4.13	1.00	ug/L
Endosulfan I	MW-20	8/31/2010		.0729	.0100	ug/L
Endosulfan I	MW-20	10/27/2011		.1080	.1000	ug/L
Endosulfan I	MW-20	10/09/2012		.0449	.0100	ug/L
Endosulfan I	MW-20	10/03/2013		.0632	.0100	ug/L
Endosulfan I	MW-20	4/22/2014		.0707	.0100	ug/L
Endosulfan I	MW-20	10/14/2014		.0387	.0100	ug/L
Endosulfan I	MW-20	2/15/2016		.0614	.0100	ug/L
Endosulfan I	MW-20	10/31/2016		.0538	.0100	ug/L
Endosulfan I	MW-20	11/13/2017		.0696	.0100	ug/L
Endosulfan I	MW-20	12/02/2019		.0370	.0100	ug/L
Endosulfan I	MW-20	5/06/2021		.0472	.0100	ug/L
Endosulfan I	MW-20	10/07/2021		.0435	.0100	ug/L
Endosulfan I	MW-20	3/08/2023		.1120	.1000	ug/L
Endosulfan I	MW-20	10/15/2024		.1300	.0500	ug/L
Endosulfan sulfate	MW-20	2/15/2016		.0451	.0100	ug/L
Endosulfan sulfate	MW-20	7/12/2017		.0623	.0100	ug/L
Ethylbenzene	MW-20	3/11/2010		1.44	1.00	ug/L
Heptachlor	MW-20	2/15/2016		.162	.100	ug/L
Toluene	MW-20	10/31/2016		1.52	1.00	ug/L
Toluene	MW-20	6/06/2018		1.54	1.00	ug/L
Toluene	MW-20	6/06/2018		1.50	1.00	ug/L
Toluene	MW-20	3/18/2019		1.11	1.00	ug/L
Toluene	MW-20	12/02/2019		1.81	1.00	ug/L
Acetone	MW-21	10/27/2011		10.2	10.0	ug/L
Acetone	MW-21	12/02/2019		12.2	10.0	ug/L
Carbon Disulfide	MW-21	10/09/2012		1.52	1.00	ug/L
Carbon Disulfide	MW-21	8/23/2022		4.13	1.00	ug/L
Phenol	MW-21	10/09/2012		62.5	1.0	ug/L
Phenol	MW-21	10/03/2013		34.7	1.0	ug/L
Toluene	MW-21	10/03/2013		24.3	1.0	ug/L
Toluene	MW-21	3/18/2019		23.3	1.0	ug/L
Toluene	MW-21	12/02/2019		173.0	1.0	ug/L
Toluene	MW-21	3/30/2020		329.0	1.0	ug/L
Toluene	MW-21	3/30/2020		274.0	1.0	ug/L
Methylene Chloride	MW-22	7/09/2008		.80	.45	ug/L
Tetrachloroethene	MW-22	2/11/2008		.58	.38	ug/L
Bromomethane	MW-23	10/03/2013		4.02	1.00	ug/L
Carbon Tetrachloride	MW-23	4/30/2008		.370	.001	ug/L
Tetrachloroethene	MW-23	2/11/2008		.52	.38	ug/L
Chlorobenzene	MW-24	8/23/2022		1.04	1.00	ug/L
PCB-1260	MW-36	10/09/2012		.965	.001	ug/L
Toluene	MW-37R	11/17/2020		1.21	1.00	ug/L
Xylenes, total	MW-37R	11/17/2020		5.25	1.00	ug/L
Toluene	MW-38R	11/17/2020		2.12	1.00	ug/L
Xylenes, total	MW-38R	11/17/2020		10.2	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

Attachment G

Summary Tables and Graphs for the LCL Comparisons – 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
1,4-Dichlorobenzene	ug/L	MW-19	4	0.500	0.000	1.176	0.500	0.500	75.000	
Benzene	ug/L	MW-19	4	0.464	0.251	1.176	0.169	0.760	5.000	
Chlorobenzene	ug/L	MW-19	4	1.313	0.158	1.176	1.126	1.499	100.000	
1,4-Dichlorobenzene	ug/L	MW-20	4	2.276	0.658	1.176	1.502	3.051	75.000	
Benzene	ug/L	MW-20	4	2.410	0.654	1.176	1.641	3.179	5.000	
Chlorobenzene	ug/L	MW-20	4	3.524	1.175	1.176	2.142	4.905	100.000	

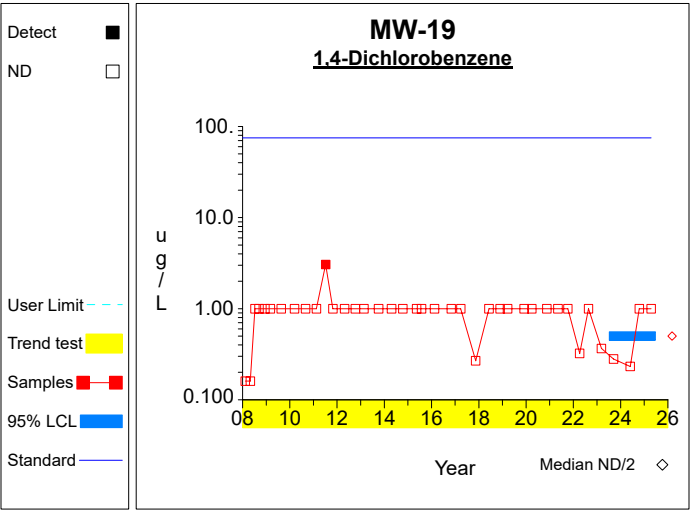
* - Insufficient Data

** - Significant Exceedance

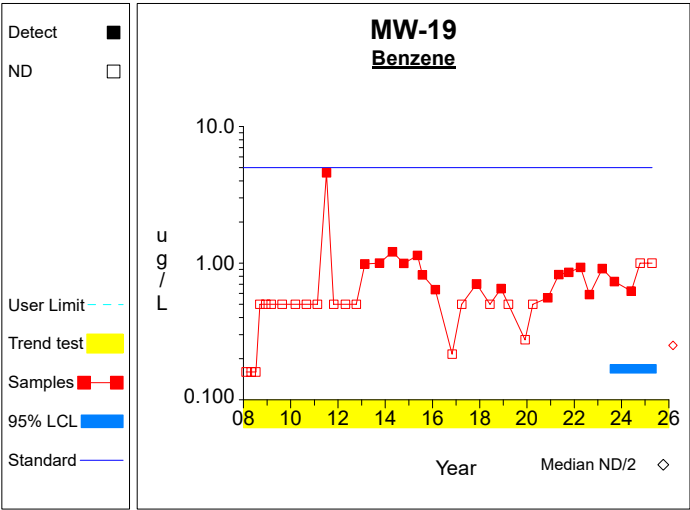
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

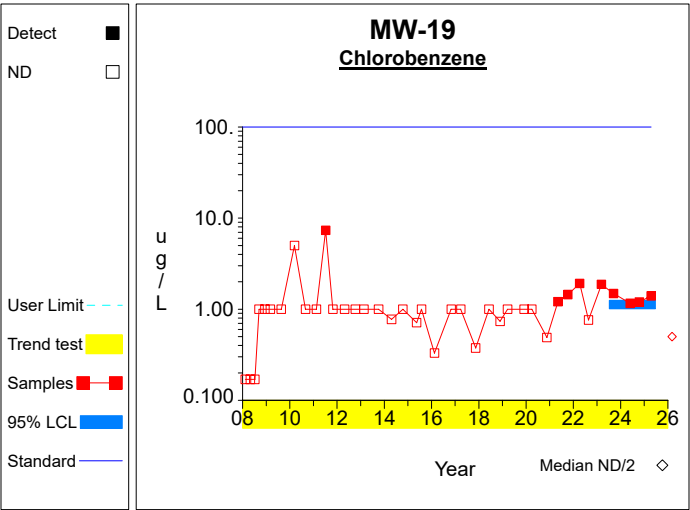
Confidence Limits (Assessment)



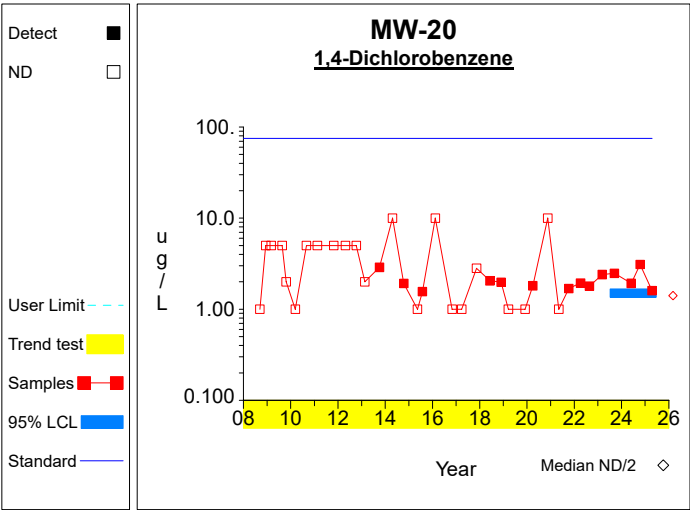
Graph 1



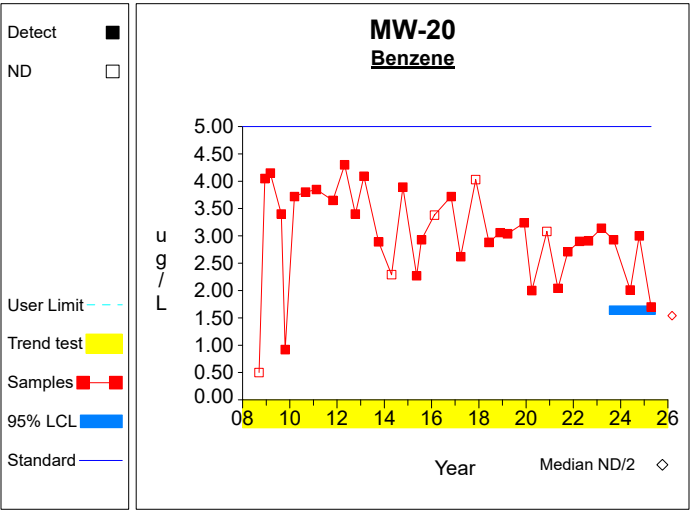
Graph 2



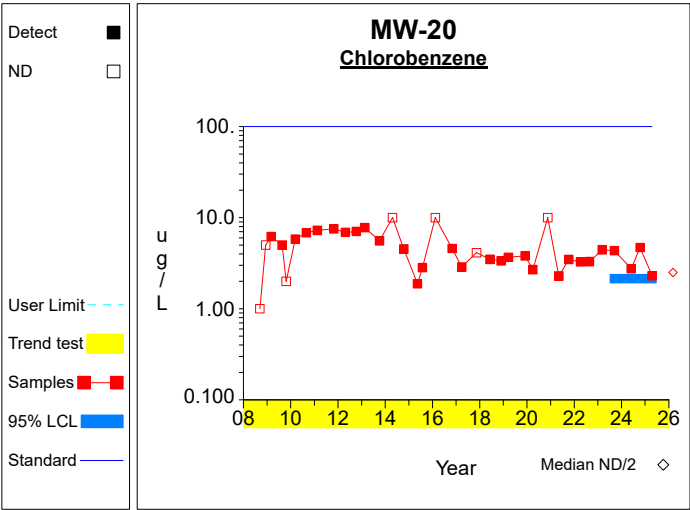
Graph 3



Graph 4



Graph 5



Graph 6

Appendix C.2

Fall Statistical Evaluation Report

Results of the Ground Water Statistics

for Cass County Sanitary Landfill

Second Semi-Annual Monitoring Events in 2025

Prepared for:
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Atlantic, IA

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December 2025

INTRODUCTION

This report contains the results of the statistical analyses used to evaluate the ground water data obtained during the second semi-annual monitoring event in 2025 at the Cass County Landfill. The ground water monitoring wells were sampled on October 27, 2025 and analyzed for the parameters required by permit. 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. Both intrawell and interwell methodologies are described and then applied to the Cass County Landfill data. The statistical plan conforms with IAC 567, Chapter 113.10, USEPA Guidance document (“*Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Unified Guidance*”, March 2009), and the American Society for Testing and Materials (ASTM) standard D6312-98, *Developing Appropriate Statistical Approaches for Ground-Water Detection Monitoring Programs*.

Ground Water Monitoring Program

The groundwater monitoring network for Cass County Landfill includes wells MW-15R (upgradient), MW-12, MW-19, MW-20, MW-21, MW-24, MW-37R, MW-38R, MW-39, MW-43, UD-0, and UD-1 in the water table and MW-22 (upgradient), MW-11, MW-23, MW-36, and MW-13 in the Dakota sandstone. Each of the groundwater monitoring wells is to be sampled at least semiannually and analyzed for the detection monitoring parameters listed below.

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. Supplemental background wells monitored for trace metals include MW-27, MW-28, MW-29, and MW-40 in the water table zone and MW-41 in the Dakota sandstone.

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. Both of these methods were applied to the Cass 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. The DUMPStat program is consistent with all USEPA regulations and guidance and the ASTM D6312-98 guidance. Ground water statistics are to be done on the constituents listed.

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 will 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 – Water Table

The background data used in this statistical analysis includes the ground water data collected from ground water well MW-15R and supplemental background wells MW-27, MW-28, MW-29, and MW-40 during the period from 2010 through the current data. The April 2025 data obtained from MW-40 was not included due to high turbidity. A summary of the background data 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 MW-19, MW-20, MW-21, MW-24, MW-37R, MW-38R, MW-39, and MW-43, 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.

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

Well	Parameter	Result, µg/L	Prediction Limit, µg/L	Prediction Limit Type	Verified/ Awaiting verification
MW-19	Barium	1040	767.6331	Lognormal	Verified
	Cobalt	25.6	7.9000	Nonparametric	Verified
	Nickel	57.9	6.5000	Nonparametric	Verified
MW-20	Arsenic	86.0	19.7000	Nonparametric	Verified
	Barium	2060	767.6331	Lognormal	Verified
	Nickel	28.0	6.5000	Nonparametric	Verified
MW-21	Nickel	8.3	6.5000	Nonparametric	Verified
MW-24	Nickel	26.5	6.5000	Nonparametric	Verified
MW-37R	Barium	925	767.6331	Lognormal	Awaiting verification
MW-38R	Selenium	5.6	4.0000	Nonparametric	Awaiting verification
MW-39	Selenium	71.5	4.0000	Nonparametric	Verified
MW-43	Nickel	9.6	6.5000	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. 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.

Results of the Interwell Statistics – Dakota

The background data used in this statistical analysis includes the ground water data collected from ground water well MW-22 and supplemental well MW-41 during the period from 2008 through the current data. A summary of the background data from monitoring wells MW-22 and MW-41 is listed in Attachment C, 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 MW-11, MW-13, MW-23, and MW-36, 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.

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

Well	Parameter	Result, µg/L	Prediction Limit, µg/L	Prediction Limit Type	Verified/ Awaiting verification
MW-11	Cobalt	2.1	1.7300	Nonparametric	Verified
	Copper	54.9	16.4000	Nonparametric	Verified
	Zinc	81.5	34.1000	Nonparametric	Verified
MW-23	Arsenic	2.0	1.3500	Nonparametric	Awaiting verification
MW-36	Arsenic	4.5	1.3500	Nonparametric	Awaiting verification
	Chromium	6.4	5.0000	Nonparametric	Awaiting verification
	Cobalt	13.3	1.7300	Nonparametric	Awaiting verification
	Nickel	13.7	10.7500	Nonparametric	Awaiting verification
	Selenium	6.2	3.2450	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. 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 1% and the test becomes sensitive to 4 standard deviation unit increases over background.

Intrawell Statistics

Intrawell statistics are appropriate for facilities where the upgradient wells do not accurately characterize the natural ground water conditions downgradient from the facility. This may be due to different hydrogeological conditions where the wells are screened, having too few upgradient wells to account for the spatial variability, or the site exhibiting no definable hydraulic gradient. Intrawell statistics compare new measurements to the historical data at each ground water monitoring well independently. It is recommended that at least eight background samples be obtained prior to performing the statistics.

The most useful technique for intrawell comparisons is the combined Shewhart-CUSUM control chart. This control chart procedure is useful because it will detect releases both in terms of the constituent concentration and cumulative increases. This method is also extremely sensitive to sudden and gradual releases. A requirement for constructing these control charts is that the parameter is detected at a frequency greater than or equal to 25%, otherwise the data variance is not properly defined.

The combined Shewhart-CUSUM control chart assumes that the data are independent and normally distributed with a fixed mean and a constant variance. Independent data is much more critical than the normality assumption. To achieve independence, it is recommended that data are collected no more frequently than quarterly to account for seasonal variation. The combined Shewhart-CUSUM control chart is extremely robust to deviations from normality. Because the control charts do not use a specific multiplier based on a normal distribution, it is more conservative to assume normality.

It is recommended that at least eight rounds of data be available to provide a reliable estimate of the mean and standard deviation of the parameter concentration, although the control charts will be generated with as few as four data points. Having only four data points may produce greater uncertainty in the mean and standard deviation of the background data, leading to higher control limits, thus having a potentially high false negative rate.

Many groundwater monitoring parameters are not detected at a frequency great enough to generate the combined Shewhart-CUSUM control charts. For constituents that are detected less than 25% of the time at a particular well, the data should be plotted as a time series until a sufficient number of data points are available to provide a 99% confidence nonparametric prediction limit. Thirteen independent measurements (with 1 resample) are necessary to achieve a 99% confidence (1% false positive rate) nonparametric prediction limit. Eight independent measurements (for pass 1 of 2 resamples) are necessary to achieve a 99% confidence nonparametric prediction limit. The nonparametric prediction limit is the largest determination out of the data set collected for that well and parameter. If the detection frequency is 0% after thirteen samples have been collected, the practical quantitation limit (PQL) becomes the nonparametric prediction limit.

In developing the statistical background, the historical data must be thoroughly screened for anomalous data due to sampling error, analytical error, or simply by chance alone. An erroneous data point, if not removed prior to the mean and variance computations, would yield a larger control limit thus increasing the false negative rate. The DUMPStat® program screens for outliers using the Dixon test. Anomalous data will still be plotted on the graphs (with a unique symbol) but will not be included in the calculations.

The verification resample plan is an integral function of the statistical plan to reduce the probability that anomalous data obtained after the background has been established, is indicative of a release.

The background data for each well and constituent is tested for existing trends using Sen's nonparametric estimate of trend. If contamination exists prior to completing the background, the control limits could be potentially high and this control chart method would not be able to detect an increasing trend unless the increase is severe.

Results of the Intrawell Statistics

The detection monitoring constituents were evaluated using the combined Shewhart-CUSUM control chart method. The background used to determine control limits includes the data obtained from 2008 through 2023 for wells MW-11, MW-15R (upgradient), MW-19, MW-20, MW-21, MW-22 (upgradient), MW-23,

MW-36, and MW-39. The background was extended through May 2024 for wells MW-37R and MW-38R. There are fewer than eight round of data at wells MW-24, MW-43, and MW-13.

A summary of the intrawell statistics is included in Attachment D, Table 1 “Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts.” The control charts or time series graphs follow the summary table. For the most current data, the control limit exceedances detected are summarized in the table below.

Control Limit Exceedances at Cass County Landfill during the Second Semi-Annual Monitoring Event in 2025

Well	Parameter	Result	CUSUM Value	Control Limit	Prediction Limit Type	Verified/ Awaiting verification
MW-11	Copper, µg/L	54.9	--	28.3000	Nonparametric	Verified
MW-15R (upgradient)	Cobalt, µg/L	2.1	--	2.0000	Nonparametric	Verified
MW-21	Arsenic, µg/L	13.3	14.5419	8.0957	Normal	Awaiting verification
MW-38R	Vanadium, µg/L	3.1	--	1.5400	Nonparametric	Awaiting verification

Increasing trends were detected in the background data for barium at MW-15R, barium at MW-19, barium at MW-21, nickel at MW-24, and barium at MW-39.

A control chart factor was selected to provide a balance of the site-wide false positive and false negative rates. A statistical power curve indicates the expected false assessments for the site as a whole. The site-wide false positive rate is 2% and the test becomes sensitive to 4 standard deviation units over background.

Assessment Statistics

The trace metals which have exceeded ground water protection standards (GWPS) or verified statistical exceedances were evaluated against the GWPS using confidence limits (Attachment E). 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 GWPS 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-20 (65.421 µg/L) exceeded the GWPS of 10 µg/L.
The 95% LCL for cobalt at MW-19 (19.805 µg/L) exceeded the GWPS of 2.1 µg/L.
The 95% LCL for cobalt at MW-20 (3.938 µg/L) exceeded the GWPS of 2.1 µg/L.
The 95% LCL for cobalt at MW-21 (4.358 µg/L) exceeded the GWPS of 2.1 µg/L.
The 95% LCL for selenium at MW-39 (64.873 µg/L) exceeded the GWPS of 50 µg/L.
The calculated 95% LCL for the remainder of the trace metals did not exceed 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. VOCs detected in the ground water at Cass County Landfill during the second semi-annual monitoring event in 2025 are summarized below. Historical VOC detections are summarized in Attachment F.

Organic compounds detected 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-13	Carbon disulfide	2.1	1	Awaiting verification	700
MW-19	Carbon disulfide	3.4	1	Awaiting verification	700
	Chlorobenzene	1.2	1	Verified	100
	Chloroethane	1.2	1	Awaiting verification	2800
MW-20	1,4-Dichlorobenzene	2.4	1	Verified	75
	Benzene	2.2	1	Verified	5
	Carbon disulfide	12.0	1	Awaiting verification	700
	Chlorobenzene	3.1	1	Verified	100
MW-21	Carbon disulfide	4.2	1	Awaiting verification	700
MW-36	Carbon disulfide	1.1	1	Awaiting verification	700
MW-37R	Carbon disulfide	4.2	1	Awaiting verification	700

The VOCs detections did not exceed GWPS. The verified VOC detections were evaluated against the GWPS using confidence limits (Attachment G). The analysis was conducted to evaluate whether verified concentrations are significantly above the water quality standard. The calculated LCLs for historically detected VOCs are below the respective GWPS.

Attachment A

Ground Water Data

Table 1

Analytical Data Summary for 10/27/2025

Constituents	Units	MW-11	MW-13	MW-15R	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-27	MW-28	MW-29	MW-36	MW-37R	MW-38R
1,1,1,2-Tetrachloroethane	ug/L	<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
1,1,2,2-Tetrachloroethane	ug/L	<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-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1				<1	<1	<1
1,1-Dichloroethene	ug/L	<1	<1	<1	<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	<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
1,2-Dibromoethane	ug/L	<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
1,2-Dichloroethane	ug/L	<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
1,2-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	2.4	<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	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10				<10	<5	<10
2-Chloronaphthalene	ug/L														<8	
2-Chlorophenol	ug/L														<8	
2-Hexanone	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5				<5	<5	<5
2-Methylnaphthalene	ug/L														<8	
2-Methylphenol (o-Cresol)	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	
3/4-Methylphenol	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 10/27/2025

Constituents	MW-39	MW-40	MW-41	MW-43
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-Dichloroethene	<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	<1.0			<1.0
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	<10			<10
2-Chloronaphthalene				
2-Chlorophenol				
2-Hexanone	<5			<5
2-Methylnaphthalene				
2-Methylphenol (o-Cresol)				
2-Naphthylamine				
2-Nitroaniline				
2-Nitrophenol				
3,3'-Dichlorobenzidine				
3,3-Dimethylbenzidine				
3/4-Methylphenol				
3-Methylcholanthrene				
3-Nitroaniline				
4,4'-DDD				
4,4'-DDE				

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

Table 1

Analytical Data Summary for 10/27/2025

Constituents	Units	MW-11	MW-13	MW-15R	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-27	MW-28	MW-29	MW-36	MW-37R	MW-38R
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	ug/L	<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
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
Aldrin	ug/L														<.05	
Allyl chloride	ug/L														<.1	
alpha-BHC	ug/L														<.05	
Anthracene	ug/L														<.8	
Antimony	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.6	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
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	ug/L	<2.0	<2.0	3.5	3.5	86.0	13.3	<2.0	2.0	9.5	<2.0	<2.0	<2.0	4.5	<2.0	<2.0
Azobenzene	ug/L														<.8	
Barium	ug/L	203.0	213.0	321.0	1040.0	2060.0	634.0	229.0	22.9	618.0	273.0	67.7	235.0	251.0	925.0	247.0
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0	2.2	<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	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	.5	<.5	<.5
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														<.6	
Bromochloromethane	ug/L	<.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
Bromofom	ug/L	<.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
Butyl benzyl phthalate	ug/L														<.8	
Cadmium	ug/L	.2	<.2	.3	<.2	<.2	<.2	<.2	<.2	.9	<.2	<.2	<.2	1.1	<.2	<.2
Carbon Disulfide	ug/L	<1.0	2.1	<1.0	3.4	12.0	4.2	<1.0	<1.0	<1.0				1.1	4.2	<1.0

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

Table 1

Analytical Data Summary for 10/27/2025

Constituents	MW-39	MW-40	MW-41	MW-43
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	<5			<5
4-Nitroaniline				
4-Nitrophenol				
5-Nitro-o-toluidine				
7,12-Dimethylbenz [a] anthracene				
Acenaphthene				
Acenaphthylene				
Acetone	<10			<10
Acetonitrile				
Acetophenone				
Acrolein				
Acrylonitrile	<5			<5
Aldrin				
Allyl chloride				
alpha-BHC				
Anthracene				
Antimony	<1.0	<1.0	<1.0	<1.0
Arochlor 1016				
Arochlor 1221				
Arochlor 1232				
Arochlor 1242				
Arochlor 1248				
Arochlor 1254				
Arochlor 1260				
Arsenic	<2.0	<2.0	<2.0	2.4
Azobenzene				
Barium	97.5	100.0	218.0	319.0
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	<.5	<.5	<.5	<.5
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	<.2	<.2	<.2	.2
Carbon Disulfide	<1.0			<1.0

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

Table 1

Analytical Data Summary for 10/27/2025

Constituents	Units	MW-11	MW-13	MW-15R	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-27	MW-28	MW-29	MW-36	MW-37R	MW-38R
Carbon Tetrachloride	ug/L	<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	1.2	3.1	<1.0	<1.0	<1.0	<1.0				<1.0	<1.0	<1.0
Chlorobenzilate	ug/L														<8	
Chlorodibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1				<1	<1	<1
Chloroethane	ug/L	<1.0	<1.0	<1.0	1.2	<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				<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1				<1	<1	<1
Chloroprene	ug/L														<1	
Chromium	ug/L	1.0	1.4	1.6	1.3	1.7	1.6	<1.0	4.0	1.1	2.0	1.6	3.5	6.4	1.0	3.2
Chrysene	ug/L														<8	
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1				<1	<1	<1
cis-1,3-Dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1				<1	<1	<1
Cobalt	ug/L	2.1	<5	2.1	25.6	6.7	6.1	<5	<5	2.0	<.5	<.5	<.5	13.3	<.5	.6
Copper	ug/L	54.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	6.1	<5.0	<5.0
Cyanide	mg/L														<.01	
delta-BHC	ug/L														<.05	
Diallate	ug/L														<8	
Dibenzo(a,h)anthracene	ug/L														<8	
Dibenzofuran	ug/L														<8	
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
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	
Iodomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1				<1	<2	<1
Isobutanol	ug/L														<1000	
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 10/27/2025

Constituents	MW-39	MW-40	MW-41	MW-43
Carbon Tetrachloride	<1			<1
Chlordane				
Chlorobenzene	<1.0			<1.0
Chlorobenzilate				
Chlorodibromomethane	<1			<1
Chloroethane	<1.0			<1.0
Chloroform	<1			<1
Chloromethane	<1			<1
Chloroprene				
Chromium	2.1	2.2	1.1	1.1
Chrysene				
cis-1,2-Dichloroethene	<1			<1
cis-1,3-Dichloropropene	<1			<1
Cobalt	<.5	1.4	<.5	4.3
Copper	<5.0	<5.0	<5.0	<5.0
Cyanide				
delta-BHC				
Diallate				
Dibenzo(a,h)anthracene				
Dibenzofuran				
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				
Hexachlorobutadiene				
Hexachlorocyclopentadiene				
Hexachloroethane				
Hexachloropropene				
Indeno(1,2,3-cd)Pyrene				
Iodomethane	<1			<1
Isobutanol				
Isodrin				
Isophorone				

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

Table 1

Analytical Data Summary for 10/27/2025

Constituents	Units	MW-11	MW-13	MW-15R	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-27	MW-28	MW-29	MW-36	MW-37R	MW-38R
Isosafrole	ug/L														<8	
Kepon	ug/L														<8	
Lead	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	ug/L														<.5	
Methacrylonitrile	ug/L														<1	
Methapyrilene	ug/L														<8	
Methoxychlor	ug/L														<.05	
Methyl Methacrylate	ug/L														<1	
Methyl Methanesulfonate	ug/L														<8	
Methyl Parathion	ug/L														<.4	
Methylene Bromide	ug/L	<1	<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	<5
Naphthalene	ug/L														<8	
Nickel	ug/L	6.3	<5.0	<5.0	57.9	28.0	8.3	<5.0	<5.0	26.5	<5.0	<5.0	<5.0	13.7	<5.0	<5.0
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	
p-(Dimethylamino)azobenzene	ug/L														<8	
Parathion	ug/L														<.4	
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	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.7	6.2	2.8	5.6
Silver	ug/L	<5	<5	<5	<5	<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	<1
Sulfide	mg/L						.1								<.1	
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1				<1	<1	<1
Thallium	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Thionazin	ug/L														<.4	
Tin	ug/L														<.5	
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1				<1	<1	<1
Toxaphene	ug/L														<.2	
trans-1,2-Dichloroethene	ug/L	<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
trans-1,4-Dichloro-2-Butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5				<5	<5	<5
Trichloroethene	ug/L	<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
Vanadium	ug/L	<2.0	<2.0	<2.0	<2.0	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.1

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

Table 1

Analytical Data Summary for 10/27/2025

Constituents	MW-39	MW-40	MW-41	MW-43
Isosafrole				
Kepon				
Lead	<1	<1	<1	<1
Mercury				
Methacrylonitrile				
Methapyrilene				
Methoxychlor				
Methyl Methacrylate				
Methyl Methanesulfonate				
Methyl Parathion				
Methylene Bromide	<1			<1
Methylene Chloride	<5			<5
Naphthalene				
Nickel	<5.0	<5.0	<5.0	9.6
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				
p-(Dimethylamino)azobenzene				
Parathion				
Pentachlorobenzene				
Pentachloronitrobenzene (PCNB)				
Pentachlorophenol				
Phenacetin				
Phenanthrene				
Phenol				
Phorate				
Pronamide				
Propionitrile				
Pyrene				
Safrole				
Selenium	71.5	3.4	<2.0	<2.0
Silver	<5	<5	<5	<5
Styrene	<1			<1
Sulfide				
Tetrachloroethene	<1			<1
Thallium	<.5	<.5	<.5	<.5
Thionazin				
Tin				
Toluene	<1			<1
Toxaphene				
trans-1,2-Dichloroethene	<1			<1
trans-1,3-Dichloropropene	<1			<1
trans-1,4-Dichloro-2-Butene	<5			<5
Trichloroethene	<1			<1
Trichlorofluoromethane	<1			<1
Vanadium	<2.0	<2.0	<2.0	2.2

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

Table 1

Analytical Data Summary for 10/27/2025

Constituents	Units	MW-11	MW-13	MW-15R	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-27	MW-28	MW-29	MW-36	MW-37R	MW-38R
Vinyl Acetate	ug/L	<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
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2				<2	<2	<2
Zinc	ug/L	81.5	8.3	5.0	14.1	11.2	<5.0	5.6	7.9	<5.0	<5.0	<5.0	<5.0	5.2	<5.0	<5.0

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

Table 1

Analytical Data Summary for 10/27/2025

Constituents	MW-39	MW-40	MW-41	MW-43
Vinyl Acetate	<5			<5
Vinyl Chloride	<1			<1
Xylenes, total	<2			<2
Zinc	<5.0	<5.0	<5.0	9.5

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

Attachment B

Summary Tables and Graphs for the Interwell Comparisons – Water Table

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony	ug/L	MW-15R	03/11/2010	ND	6.0000	1.0300	**
Antimony	ug/L	MW-15R	05/27/2010	ND	6.0000	1.0300	**
Antimony	ug/L	MW-15R	08/31/2010	ND	6.0000	1.0300	**
Antimony	ug/L	MW-15R	11/04/2010	ND	6.0000	1.0300	**
Antimony	ug/L	MW-15R	02/16/2011	ND	6.0000	1.0300	**
Antimony	ug/L	MW-15R	10/27/2011	ND	6.0000	1.0300	**
Antimony	ug/L	MW-15R	04/26/2012	ND	6.0000	1.0300	**
Antimony	ug/L	MW-15R	10/09/2012	ND	6.0000	1.0300	**
Antimony	ug/L	MW-15R	02/20/2013	ND	6.0000	1.0300	**
Antimony	ug/L	MW-15R	10/03/2013	ND	1.0300		
Antimony	ug/L	MW-15R	04/22/2014	ND	6.0000	1.0300	**
Antimony	ug/L	MW-15R	10/14/2014	ND	6.0000	1.0300	**
Antimony	ug/L	MW-15R	05/12/2015	ND	1.0000	1.0300	**
Antimony	ug/L	MW-15R	07/29/2015	ND	1.0000	1.0300	**
Antimony	ug/L	MW-15R	02/15/2016	ND	1.0000	1.0300	**
Antimony	ug/L	MW-15R	10/31/2016	ND	1.0000	1.0300	**
Antimony	ug/L	MW-15R	03/27/2017	ND	1.0000	1.0300	**
Antimony	ug/L	MW-15R	11/13/2017	ND	0.2550		*
Antimony	ug/L	MW-15R	06/06/2018	ND	3.0000	1.0300	**
Antimony	ug/L	MW-15R	11/27/2018	ND	1.0000	1.0300	**
Antimony	ug/L	MW-15R	03/18/2019	ND	1.0000	1.0300	**
Antimony	ug/L	MW-15R	12/02/2019	ND	1.0000	1.0300	**
Antimony	ug/L	MW-15R	03/30/2020	ND	1.0000	1.0300	**
Antimony	ug/L	MW-15R	11/17/2020	ND	1.0000	1.0300	**
Antimony	ug/L	MW-15R	05/06/2021	ND	2.0000	1.0300	**
Antimony	ug/L	MW-15R	10/07/2021	ND	2.0000	1.0300	**
Antimony	ug/L	MW-15R	04/06/2022	ND	2.0000	1.0300	**
Antimony	ug/L	MW-15R	08/23/2022	ND	2.0000	1.0300	**
Antimony	ug/L	MW-15R	03/08/2023	ND	2.0000	1.0300	**
Antimony	ug/L	MW-15R	09/13/2023	ND	1.6500	1.0300	**
Antimony	ug/L	MW-15R	05/29/2024	ND	2.0000	1.0300	**
Antimony	ug/L	MW-15R	10/15/2024	ND	2.0000	1.0300	**
Antimony	ug/L	MW-15R	04/16/2025	ND	1.0000	1.0300	**
Antimony	ug/L	MW-15R	07/14/2025	ND	1.0000	1.0300	**
Antimony	ug/L	MW-15R	10/27/2025	ND	1.0000	1.0300	**
Arsenic	ug/L	MW-15R	03/11/2010	ND	1.0000	1.3400	**
Arsenic	ug/L	MW-15R	05/27/2010	ND	1.0000	1.3400	**
Arsenic	ug/L	MW-15R	08/31/2010	ND	2.0000	1.3400	**
Arsenic	ug/L	MW-15R	11/04/2010	ND	1.0000	1.3400	**
Arsenic	ug/L	MW-15R	02/16/2011	ND	1.0000	1.3400	**
Arsenic	ug/L	MW-15R	10/27/2011	ND	1.0000	1.3400	**
Arsenic	ug/L	MW-15R	04/26/2012		4.5000		
Arsenic	ug/L	MW-15R	10/09/2012	ND	1.0000	1.3400	**
Arsenic	ug/L	MW-15R	02/20/2013	ND	1.0000	1.3400	**
Arsenic	ug/L	MW-15R	10/03/2013	ND	0.6440	1.3400	**
Arsenic	ug/L	MW-15R	04/22/2014	ND	1.0000	1.3400	**
Arsenic	ug/L	MW-15R	10/14/2014	ND	1.0000	1.3400	**
Arsenic	ug/L	MW-15R	05/12/2015	ND	1.4700	1.3400	**
Arsenic	ug/L	MW-15R	07/29/2015	ND	2.0000	1.3400	**
Arsenic	ug/L	MW-15R	02/15/2016	ND	1.3400		
Arsenic	ug/L	MW-15R	10/31/2016	ND	2.0000	1.3400	**
Arsenic	ug/L	MW-15R	03/27/2017	ND	0.5430	1.3400	**
Arsenic	ug/L	MW-15R	11/13/2017	ND	0.6080	1.3400	**
Arsenic	ug/L	MW-15R	06/06/2018		1.6700		
Arsenic	ug/L	MW-15R	11/27/2018	ND	1.1100	1.3400	**
Arsenic	ug/L	MW-15R	03/18/2019	ND	0.8590	1.3400	**
Arsenic	ug/L	MW-15R	12/02/2019	ND	2.0000	1.3400	**
Arsenic	ug/L	MW-15R	03/30/2020	ND	2.0000	1.3400	**
Arsenic	ug/L	MW-15R	11/17/2020	ND	2.0000	1.3400	**
Arsenic	ug/L	MW-15R	05/06/2021	ND	2.0000	1.3400	**
Arsenic	ug/L	MW-15R	10/07/2021		2.8400		
Arsenic	ug/L	MW-15R	04/06/2022	ND	0.8210	1.3400	**
Arsenic	ug/L	MW-15R	08/23/2022	ND	2.0000	1.3400	**
Arsenic	ug/L	MW-15R	03/08/2023	ND	2.0000	1.3400	**
Arsenic	ug/L	MW-15R	09/13/2023	ND	0.6400	1.3400	**
Arsenic	ug/L	MW-15R	05/29/2024		9.1300		
Arsenic	ug/L	MW-15R	10/15/2024		9.1000		
Arsenic	ug/L	MW-15R	04/16/2025		19.7000		
Arsenic	ug/L	MW-15R	07/14/2025		7.7000		
Arsenic	ug/L	MW-15R	10/27/2025		3.5000		
Barium	ug/L	MW-15R	03/11/2010		54.7000		
Barium	ug/L	MW-15R	05/27/2010		50.3000		
Barium	ug/L	MW-15R	08/31/2010		120.0000		
Barium	ug/L	MW-15R	11/04/2010		86.6000		

* - 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	
Barium	ug/L	MW-15R	02/16/2011		84.8000		
Barium	ug/L	MW-15R	10/27/2011		79.1000		
Barium	ug/L	MW-15R	04/26/2012		251.0000		
Barium	ug/L	MW-15R	10/09/2012		140.0000		
Barium	ug/L	MW-15R	02/20/2013		131.0000		
Barium	ug/L	MW-15R	10/03/2013		160.0000		
Barium	ug/L	MW-15R	04/22/2014		173.5000		
Barium	ug/L	MW-15R	10/14/2014		226.0000		
Barium	ug/L	MW-15R	05/12/2015		195.0000		
Barium	ug/L	MW-15R	07/29/2015		175.0000		
Barium	ug/L	MW-15R	02/15/2016		187.0000		
Barium	ug/L	MW-15R	10/31/2016		168.0000		
Barium	ug/L	MW-15R	03/27/2017		217.0000		
Barium	ug/L	MW-15R	11/13/2017		193.0000		
Barium	ug/L	MW-15R	06/06/2018		170.0000		
Barium	ug/L	MW-15R	11/27/2018		199.0000		
Barium	ug/L	MW-15R	03/18/2019		263.0000		
Barium	ug/L	MW-15R	12/02/2019		208.0000		
Barium	ug/L	MW-15R	03/30/2020		205.0000		
Barium	ug/L	MW-15R	11/17/2020		224.0000		
Barium	ug/L	MW-15R	05/06/2021		217.0000		
Barium	ug/L	MW-15R	10/07/2021		207.0000		
Barium	ug/L	MW-15R	04/06/2022		257.0000		
Barium	ug/L	MW-15R	08/23/2022		248.0000		
Barium	ug/L	MW-15R	03/08/2023		265.0000		
Barium	ug/L	MW-15R	09/13/2023		306.0000		
Barium	ug/L	MW-15R	05/29/2024		351.0000		
Barium	ug/L	MW-15R	10/15/2024		376.0000		
Barium	ug/L	MW-15R	04/16/2025		662.0000		
Barium	ug/L	MW-15R	07/14/2025		602.0000		
Barium	ug/L	MW-15R	10/27/2025		321.0000		
Beryllium	ug/L	MW-15R	03/11/2010	ND	1.0000		
Beryllium	ug/L	MW-15R	05/27/2010	ND	1.0000		
Beryllium	ug/L	MW-15R	08/31/2010	ND	1.0000		
Beryllium	ug/L	MW-15R	11/04/2010	ND	1.0000		
Beryllium	ug/L	MW-15R	02/16/2011	ND	1.0000		
Beryllium	ug/L	MW-15R	10/27/2011	ND	1.0000		
Beryllium	ug/L	MW-15R	04/26/2012	ND	4.0000		*
Beryllium	ug/L	MW-15R	10/09/2012	ND	1.0000		
Beryllium	ug/L	MW-15R	02/20/2013	ND	1.0000		
Beryllium	ug/L	MW-15R	10/03/2013	ND	1.0000		
Beryllium	ug/L	MW-15R	04/22/2014	ND	1.0000		
Beryllium	ug/L	MW-15R	10/14/2014	ND	1.0000		
Beryllium	ug/L	MW-15R	05/12/2015	ND	1.0000		
Beryllium	ug/L	MW-15R	07/29/2015	ND	1.0000		
Beryllium	ug/L	MW-15R	02/15/2016	ND	1.0000		
Beryllium	ug/L	MW-15R	10/31/2016	ND	1.0000		
Beryllium	ug/L	MW-15R	03/27/2017	ND	1.0000		
Beryllium	ug/L	MW-15R	11/13/2017	ND	1.0000		
Beryllium	ug/L	MW-15R	06/06/2018	ND	1.0000		
Beryllium	ug/L	MW-15R	11/27/2018	ND	1.0000		
Beryllium	ug/L	MW-15R	03/18/2019	ND	1.0000		
Beryllium	ug/L	MW-15R	12/02/2019	ND	1.0000		
Beryllium	ug/L	MW-15R	03/30/2020	ND	1.0000		
Beryllium	ug/L	MW-15R	11/17/2020	ND	1.0000		
Beryllium	ug/L	MW-15R	05/06/2021	ND	1.0000		
Beryllium	ug/L	MW-15R	10/07/2021	ND	1.0000		
Beryllium	ug/L	MW-15R	04/06/2022	ND	1.0000		
Beryllium	ug/L	MW-15R	08/23/2022	ND	1.0000		
Beryllium	ug/L	MW-15R	03/08/2023	ND	1.0000		
Beryllium	ug/L	MW-15R	09/13/2023	ND	1.0000		
Beryllium	ug/L	MW-15R	05/29/2024	ND	1.0000		
Beryllium	ug/L	MW-15R	10/15/2024	ND	4.0000		
Beryllium	ug/L	MW-15R	04/16/2025	ND	0.5000	1.0000	**
Beryllium	ug/L	MW-15R	07/14/2025	ND	0.5000	1.0000	**
Beryllium	ug/L	MW-15R	10/27/2025	ND	0.5000	1.0000	**
Cadmium	ug/L	MW-15R	03/11/2010		0.6490		
Cadmium	ug/L	MW-15R	05/27/2010		1.2500		
Cadmium	ug/L	MW-15R	08/31/2010		1.1100		
Cadmium	ug/L	MW-15R	11/04/2010		0.6100		
Cadmium	ug/L	MW-15R	02/16/2011		0.9480		
Cadmium	ug/L	MW-15R	10/27/2011		0.5140		
Cadmium	ug/L	MW-15R	04/26/2012	ND	0.8000	0.2000	**
Cadmium	ug/L	MW-15R	10/09/2012		0.7830		

* - 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	ug/L	MW-15R	02/20/2013	ND	0.5000	0.2000	**
Cadmium	ug/L	MW-15R	10/03/2013		1.0700		
Cadmium	ug/L	MW-15R	04/22/2014		1.0470		
Cadmium	ug/L	MW-15R	10/14/2014	ND	0.2945	0.2000	**
Cadmium	ug/L	MW-15R	05/12/2015	ND	0.1950	0.2000	**
Cadmium	ug/L	MW-15R	07/29/2015	ND	0.1620	0.2000	**
Cadmium	ug/L	MW-15R	02/15/2016	ND	0.5000	0.2000	**
Cadmium	ug/L	MW-15R	10/31/2016	ND	0.0400	0.2000	**
Cadmium	ug/L	MW-15R	03/27/2017	ND	0.0480	0.2000	**
Cadmium	ug/L	MW-15R	11/13/2017	ND	0.0890	0.2000	**
Cadmium	ug/L	MW-15R	06/06/2018	ND	0.5000	0.2000	**
Cadmium	ug/L	MW-15R	11/27/2018	ND	0.5000	0.2000	**
Cadmium	ug/L	MW-15R	03/18/2019	ND	0.5000	0.2000	**
Cadmium	ug/L	MW-15R	12/02/2019	ND	0.1000	0.2000	**
Cadmium	ug/L	MW-15R	03/30/2020	ND	0.1000	0.2000	**
Cadmium	ug/L	MW-15R	11/17/2020	ND	0.1000	0.2000	**
Cadmium	ug/L	MW-15R	05/06/2021	ND	0.1000	0.2000	**
Cadmium	ug/L	MW-15R	10/07/2021	ND	0.1000	0.2000	**
Cadmium	ug/L	MW-15R	04/06/2022	ND	0.1000	0.2000	**
Cadmium	ug/L	MW-15R	08/23/2022	ND	0.1000	0.2000	**
Cadmium	ug/L	MW-15R	03/08/2023	ND	0.1000	0.2000	**
Cadmium	ug/L	MW-15R	09/13/2023	ND	0.2000		
Cadmium	ug/L	MW-15R	05/29/2024	ND	0.1110	0.2000	**
Cadmium	ug/L	MW-15R	10/15/2024	ND	0.8000	0.2000	**
Cadmium	ug/L	MW-15R	04/16/2025		0.3000		
Cadmium	ug/L	MW-15R	07/14/2025	ND	0.2000		
Cadmium	ug/L	MW-15R	10/27/2025		0.3000		
Chromium	ug/L	MW-15R	03/11/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	05/27/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	08/31/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	11/04/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	02/16/2011	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	10/27/2011	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	04/26/2012	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	10/09/2012	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	02/20/2013	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	10/03/2013	ND	3.0500	5.0000	**
Chromium	ug/L	MW-15R	04/22/2014	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	10/14/2014	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	05/12/2015	ND	5.0000		
Chromium	ug/L	MW-15R	07/29/2015	ND	5.0000		
Chromium	ug/L	MW-15R	02/15/2016	ND	5.0000		
Chromium	ug/L	MW-15R	10/31/2016	ND	0.7430	5.0000	**
Chromium	ug/L	MW-15R	03/27/2017	ND	0.7930	5.0000	**
Chromium	ug/L	MW-15R	11/13/2017	ND	0.9120	5.0000	**
Chromium	ug/L	MW-15R	06/06/2018	ND	4.3100	5.0000	**
Chromium	ug/L	MW-15R	11/27/2018	ND	0.8020	5.0000	**
Chromium	ug/L	MW-15R	03/18/2019	ND	5.0000		
Chromium	ug/L	MW-15R	12/02/2019	ND	5.0000		
Chromium	ug/L	MW-15R	03/30/2020	ND	5.0000		
Chromium	ug/L	MW-15R	11/17/2020	ND	5.0000		
Chromium	ug/L	MW-15R	05/06/2021	ND	5.0000		
Chromium	ug/L	MW-15R	10/07/2021	ND	1.1100	5.0000	**
Chromium	ug/L	MW-15R	04/06/2022	ND	5.0000		
Chromium	ug/L	MW-15R	08/23/2022	ND	5.0000		
Chromium	ug/L	MW-15R	03/08/2023	ND	5.0000		
Chromium	ug/L	MW-15R	09/13/2023	ND	5.0000		
Chromium	ug/L	MW-15R	05/29/2024	ND	5.0000		
Chromium	ug/L	MW-15R	10/15/2024	ND	8.0000	5.0000	**
Chromium	ug/L	MW-15R	04/16/2025		2.0000		
Chromium	ug/L	MW-15R	07/14/2025		1.6000		
Chromium	ug/L	MW-15R	10/27/2025		1.6000		
Cobalt	ug/L	MW-15R	03/11/2010	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	05/27/2010		1.7700		
Cobalt	ug/L	MW-15R	08/31/2010	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	11/04/2010	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	02/16/2011	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	10/27/2011	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	04/26/2012		2.0000		
Cobalt	ug/L	MW-15R	10/09/2012	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	02/20/2013	ND	1.3200	0.5000	**
Cobalt	ug/L	MW-15R	10/03/2013	ND	1.3200	0.5000	**
Cobalt	ug/L	MW-15R	04/22/2014	ND	2.4100	0.5000	**
Cobalt	ug/L	MW-15R	10/14/2014	ND	2.4100	0.5000	**

* - 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	
Cobalt	ug/L	MW-15R	05/12/2015	ND	0.2440	0.5000	**
Cobalt	ug/L	MW-15R	07/29/2015	ND	0.0700	0.5000	**
Cobalt	ug/L	MW-15R	02/15/2016	ND	0.1520	0.5000	**
Cobalt	ug/L	MW-15R	10/31/2016	ND	0.5000		
Cobalt	ug/L	MW-15R	03/27/2017	ND	0.5000		
Cobalt	ug/L	MW-15R	11/13/2017	ND	0.5000		
Cobalt	ug/L	MW-15R	06/06/2018	ND	1.0000	0.5000	**
Cobalt	ug/L	MW-15R	11/27/2018		1.0200		
Cobalt	ug/L	MW-15R	03/18/2019	ND	0.2140	0.5000	**
Cobalt	ug/L	MW-15R	12/02/2019	ND	0.5000		
Cobalt	ug/L	MW-15R	03/30/2020	ND	0.5000		
Cobalt	ug/L	MW-15R	11/17/2020	ND	0.5000		
Cobalt	ug/L	MW-15R	05/06/2021	ND	0.5000		
Cobalt	ug/L	MW-15R	10/07/2021	ND	0.5000		
Cobalt	ug/L	MW-15R	04/06/2022	ND	0.4640	0.5000	**
Cobalt	ug/L	MW-15R	08/23/2022	ND	0.5000		
Cobalt	ug/L	MW-15R	03/08/2023	ND	0.3080	0.5000	**
Cobalt	ug/L	MW-15R	09/13/2023	ND	0.5000		
Cobalt	ug/L	MW-15R	05/29/2024		2.7300		
Cobalt	ug/L	MW-15R	10/15/2024		4.2000		
Cobalt	ug/L	MW-15R	04/16/2025		7.9000		
Cobalt	ug/L	MW-15R	07/14/2025		2.6000		
Cobalt	ug/L	MW-15R	10/27/2025		2.1000		
Copper	ug/L	MW-15R	03/11/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	05/27/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	08/31/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	11/04/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	02/16/2011	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	10/27/2011	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	04/26/2012	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	10/09/2012	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	02/20/2013	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	10/03/2013	ND	6.5200	5.0000	**
Copper	ug/L	MW-15R	04/22/2014	ND	6.6800	5.0000	**
Copper	ug/L	MW-15R	10/14/2014	ND	11.8300	5.0000	**
Copper	ug/L	MW-15R	05/12/2015	ND	1.5300	5.0000	**
Copper	ug/L	MW-15R	07/29/2015	ND	1.0600	5.0000	**
Copper	ug/L	MW-15R	02/15/2016	ND	2.0000	5.0000	**
Copper	ug/L	MW-15R	10/31/2016	ND	5.0000		
Copper	ug/L	MW-15R	03/27/2017	ND	5.0000		
Copper	ug/L	MW-15R	11/13/2017	ND	5.0000		
Copper	ug/L	MW-15R	06/06/2018	ND	0.8860	5.0000	**
Copper	ug/L	MW-15R	11/27/2018	ND	5.0000		
Copper	ug/L	MW-15R	03/18/2019	ND	5.0000		
Copper	ug/L	MW-15R	12/02/2019	ND	5.0000		
Copper	ug/L	MW-15R	03/30/2020	ND	5.0000		
Copper	ug/L	MW-15R	11/17/2020	ND	5.0000		
Copper	ug/L	MW-15R	05/06/2021	ND	5.0000		
Copper	ug/L	MW-15R	10/07/2021	ND	5.0000		
Copper	ug/L	MW-15R	04/06/2022	ND	5.0000		
Copper	ug/L	MW-15R	08/23/2022	ND	5.0000		
Copper	ug/L	MW-15R	03/08/2023	ND	5.0000		
Copper	ug/L	MW-15R	09/13/2023	ND	5.0000		
Copper	ug/L	MW-15R	05/29/2024	ND	5.0000		
Copper	ug/L	MW-15R	10/15/2024	ND	4.0000	5.0000	**
Copper	ug/L	MW-15R	04/16/2025	ND	5.0000		
Copper	ug/L	MW-15R	07/14/2025	ND	5.0000		
Copper	ug/L	MW-15R	10/27/2025	ND	5.0000		
Lead	ug/L	MW-15R	03/11/2010	ND	4.0000	1.0000	**
Lead	ug/L	MW-15R	05/27/2010	ND	4.0000	1.0000	**
Lead	ug/L	MW-15R	08/31/2010	ND	4.0000	1.0000	**
Lead	ug/L	MW-15R	11/04/2010	ND	4.0000	1.0000	**
Lead	ug/L	MW-15R	02/16/2011	ND	4.0000	1.0000	**
Lead	ug/L	MW-15R	10/27/2011	ND	4.0000	1.0000	**
Lead	ug/L	MW-15R	04/26/2012	ND	4.0000	1.0000	**
Lead	ug/L	MW-15R	10/09/2012	ND	4.0000	1.0000	**
Lead	ug/L	MW-15R	02/20/2013	ND	4.0000	1.0000	**
Lead	ug/L	MW-15R	10/03/2013	ND	1.8300	1.0000	**
Lead	ug/L	MW-15R	04/22/2014	ND	2.4200	1.0000	**
Lead	ug/L	MW-15R	10/14/2014	ND	4.0000	1.0000	**
Lead	ug/L	MW-15R	05/12/2015	ND	0.2640	1.0000	**
Lead	ug/L	MW-15R	07/29/2015	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	02/15/2016	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	10/31/2016	ND	0.5000	1.0000	**

* - 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	ug/L	MW-15R	03/27/2017	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	11/13/2017		0.5180		
Lead	ug/L	MW-15R	06/06/2018	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	11/27/2018	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	03/18/2019	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	12/02/2019	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	03/30/2020	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	11/17/2020	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	05/06/2021	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	10/07/2021	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	04/06/2022	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	08/23/2022	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	03/08/2023	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	09/13/2023	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	05/29/2024	ND	0.5000	1.0000	**
Lead	ug/L	MW-15R	10/15/2024	ND	4.0000	1.0000	**
Lead	ug/L	MW-15R	04/16/2025		1.0000		
Lead	ug/L	MW-15R	07/14/2025	ND	1.0000		
Lead	ug/L	MW-15R	10/27/2025	ND	1.0000		
Nickel	ug/L	MW-15R	03/11/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	05/27/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	08/31/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	11/04/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	02/16/2011	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	10/27/2011	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	04/26/2012	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	10/09/2012	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	02/20/2013	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	10/03/2013	ND	3.1100	5.0000	**
Nickel	ug/L	MW-15R	04/22/2014	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	10/14/2014	ND	11.8500	5.0000	**
Nickel	ug/L	MW-15R	05/12/2015	ND	2.3800	5.0000	**
Nickel	ug/L	MW-15R	07/29/2015	ND	0.6790	5.0000	**
Nickel	ug/L	MW-15R	02/15/2016	ND	5.0000		
Nickel	ug/L	MW-15R	10/31/2016	ND	5.0000		
Nickel	ug/L	MW-15R	03/27/2017	ND	5.0000		
Nickel	ug/L	MW-15R	11/13/2017	ND	5.0000		
Nickel	ug/L	MW-15R	06/06/2018	ND	1.0300	5.0000	**
Nickel	ug/L	MW-15R	11/27/2018	ND	5.0000		
Nickel	ug/L	MW-15R	03/18/2019	ND	5.0000		
Nickel	ug/L	MW-15R	12/02/2019	ND	5.0000		
Nickel	ug/L	MW-15R	03/30/2020	ND	5.0000		
Nickel	ug/L	MW-15R	11/17/2020	ND	5.0000		
Nickel	ug/L	MW-15R	05/06/2021	ND	5.0000		
Nickel	ug/L	MW-15R	10/07/2021	ND	5.0000		
Nickel	ug/L	MW-15R	04/06/2022	ND	5.0000		
Nickel	ug/L	MW-15R	08/23/2022	ND	5.0000		
Nickel	ug/L	MW-15R	03/08/2023	ND	2.3300	5.0000	**
Nickel	ug/L	MW-15R	09/13/2023	ND	5.0000		
Nickel	ug/L	MW-15R	05/29/2024	ND	2.4800	5.0000	**
Nickel	ug/L	MW-15R	10/15/2024		6.3000		
Nickel	ug/L	MW-15R	04/16/2025		6.5000		
Nickel	ug/L	MW-15R	07/14/2025	ND	5.0000		
Nickel	ug/L	MW-15R	10/27/2025	ND	5.0000		
Selenium	ug/L	MW-15R	03/11/2010	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	05/27/2010	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	08/31/2010	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	11/04/2010	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	02/16/2011	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	10/27/2011	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	04/26/2012	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	10/09/2012	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	02/20/2013	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	10/03/2013	ND	2.4600	4.0000	**
Selenium	ug/L	MW-15R	04/22/2014	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	10/14/2014	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	05/12/2015	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	07/29/2015	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	02/15/2016	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	10/31/2016	ND	1.2100	4.0000	**
Selenium	ug/L	MW-15R	03/27/2017	ND	1.1900	4.0000	**
Selenium	ug/L	MW-15R	11/13/2017	ND	1.1900	4.0000	**
Selenium	ug/L	MW-15R	06/06/2018	ND	1.5200	4.0000	**
Selenium	ug/L	MW-15R	11/27/2018	ND	1.5800	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	ug/L	MW-15R	03/18/2019	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	12/02/2019	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	03/30/2020	ND	1.2900	4.0000	**
Selenium	ug/L	MW-15R	11/17/2020	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	05/06/2021	ND	2.0700	4.0000	**
Selenium	ug/L	MW-15R	10/07/2021	ND	1.3500	4.0000	**
Selenium	ug/L	MW-15R	04/06/2022	ND	1.0000	4.0000	**
Selenium	ug/L	MW-15R	08/23/2022	ND	1.1300	4.0000	**
Selenium	ug/L	MW-15R	03/08/2023	ND	1.5500	4.0000	**
Selenium	ug/L	MW-15R	09/13/2023	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	05/29/2024	ND	5.0000	4.0000	**
Selenium	ug/L	MW-15R	10/15/2024	ND	4.0000		
Selenium	ug/L	MW-15R	04/16/2025	ND	2.0000	4.0000	**
Selenium	ug/L	MW-15R	07/14/2025	ND	2.0000	4.0000	**
Selenium	ug/L	MW-15R	10/27/2025	ND	2.0000	4.0000	**
Silver	ug/L	MW-15R	03/11/2010	ND	20.0000	5.0000	**
Silver	ug/L	MW-15R	05/27/2010	ND	20.0000	5.0000	**
Silver	ug/L	MW-15R	08/31/2010	ND	20.0000	5.0000	**
Silver	ug/L	MW-15R	11/04/2010	ND	20.0000	5.0000	**
Silver	ug/L	MW-15R	02/16/2011	ND	20.0000	5.0000	**
Silver	ug/L	MW-15R	10/27/2011	ND	20.0000	5.0000	**
Silver	ug/L	MW-15R	04/26/2012	ND	20.0000	5.0000	**
Silver	ug/L	MW-15R	10/09/2012	ND	20.0000	5.0000	**
Silver	ug/L	MW-15R	02/20/2013	ND	20.0000	5.0000	**
Silver	ug/L	MW-15R	10/03/2013	ND	20.0000	5.0000	**
Silver	ug/L	MW-15R	04/22/2014	ND	20.0000	5.0000	**
Silver	ug/L	MW-15R	10/14/2014	ND	20.0000	5.0000	**
Silver	ug/L	MW-15R	05/12/2015	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	07/29/2015	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	02/15/2016	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	10/31/2016	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	03/27/2017	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	11/13/2017	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	06/06/2018	ND	0.5000	5.0000	**
Silver	ug/L	MW-15R	11/27/2018	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	03/18/2019	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	12/02/2019	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	03/30/2020	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	11/17/2020	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	05/06/2021	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	10/07/2021	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	04/06/2022	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	08/23/2022	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	03/08/2023	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	09/13/2023	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	05/29/2024	ND	1.0000	5.0000	**
Silver	ug/L	MW-15R	10/15/2024	ND	4.0000	5.0000	**
Silver	ug/L	MW-15R	04/16/2025	ND	5.0000		
Silver	ug/L	MW-15R	07/14/2025	ND	5.0000		
Silver	ug/L	MW-15R	10/27/2025	ND	5.0000		
Thallium	ug/L	MW-15R	03/11/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	05/27/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	08/31/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	11/04/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	02/16/2011	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	10/27/2011	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	04/26/2012	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	10/09/2012	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	02/20/2013	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	10/03/2013	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	04/22/2014	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	10/14/2014	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	05/12/2015	ND	1.0000		
Thallium	ug/L	MW-15R	07/29/2015	ND	1.0000		
Thallium	ug/L	MW-15R	02/15/2016	ND	1.0000		
Thallium	ug/L	MW-15R	10/31/2016	ND	1.0000		
Thallium	ug/L	MW-15R	03/27/2017	ND	1.0000		
Thallium	ug/L	MW-15R	11/13/2017	ND	1.0000		
Thallium	ug/L	MW-15R	06/06/2018	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	11/27/2018	ND	1.0000		
Thallium	ug/L	MW-15R	03/18/2019	ND	1.0000		
Thallium	ug/L	MW-15R	12/02/2019	ND	1.0000		
Thallium	ug/L	MW-15R	03/30/2020	ND	1.0000		
Thallium	ug/L	MW-15R	11/17/2020	ND	1.0000		

* - 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	ug/L	MW-15R	05/06/2021	ND	1.0000		
Thallium	ug/L	MW-15R	10/07/2021	ND	1.0000		
Thallium	ug/L	MW-15R	04/06/2022	ND	1.0000		
Thallium	ug/L	MW-15R	08/23/2022	ND	1.0000		
Thallium	ug/L	MW-15R	03/08/2023	ND	1.0000		
Thallium	ug/L	MW-15R	09/13/2023	ND	1.0000		
Thallium	ug/L	MW-15R	05/29/2024	ND	1.0000		
Thallium	ug/L	MW-15R	10/15/2024	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	04/16/2025	ND	0.5000	1.0000	**
Thallium	ug/L	MW-15R	07/14/2025	ND	0.5000	1.0000	**
Thallium	ug/L	MW-15R	10/27/2025	ND	0.5000	1.0000	**
Vanadium	ug/L	MW-15R	03/11/2010	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	05/27/2010	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	08/31/2010	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	11/04/2010	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	02/16/2011	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	10/27/2011	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	04/26/2012	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	10/09/2012	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	02/20/2013	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	10/03/2013	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	04/22/2014	ND	2.9900	5.0000	**
Vanadium	ug/L	MW-15R	10/14/2014	ND	26.3450	5.0000	**
Vanadium	ug/L	MW-15R	05/12/2015	ND	5.0000		
Vanadium	ug/L	MW-15R	07/29/2015	ND	0.4570	5.0000	**
Vanadium	ug/L	MW-15R	02/15/2016	ND	5.0000		
Vanadium	ug/L	MW-15R	10/31/2016	ND	0.3370	5.0000	**
Vanadium	ug/L	MW-15R	03/27/2017	ND	5.0000		
Vanadium	ug/L	MW-15R	11/13/2017	ND	5.0000		
Vanadium	ug/L	MW-15R	06/06/2018	ND	3.2300	5.0000	**
Vanadium	ug/L	MW-15R	11/27/2018	ND	0.5650	5.0000	**
Vanadium	ug/L	MW-15R	03/18/2019	ND	5.0000		
Vanadium	ug/L	MW-15R	12/02/2019	ND	5.0000		
Vanadium	ug/L	MW-15R	03/30/2020	ND	5.0000		
Vanadium	ug/L	MW-15R	11/17/2020	ND	5.0000		
Vanadium	ug/L	MW-15R	05/06/2021	ND	5.0000		
Vanadium	ug/L	MW-15R	10/07/2021	ND	5.0000		
Vanadium	ug/L	MW-15R	04/06/2022	ND	5.0000		
Vanadium	ug/L	MW-15R	08/23/2022	ND	5.0000		
Vanadium	ug/L	MW-15R	03/08/2023	ND	5.0000		
Vanadium	ug/L	MW-15R	09/13/2023	ND	5.0000		
Vanadium	ug/L	MW-15R	05/29/2024	ND	5.0000		
Vanadium	ug/L	MW-15R	10/15/2024	ND	20.0000	5.0000	**
Vanadium	ug/L	MW-15R	04/16/2025	ND	5.2000		
Vanadium	ug/L	MW-15R	07/14/2025	ND	2.0000	5.0000	**
Vanadium	ug/L	MW-15R	10/27/2025	ND	2.0000	5.0000	**
Zinc	ug/L	MW-15R	03/11/2010		57.7000		
Zinc	ug/L	MW-15R	05/27/2010	ND	20.0000		
Zinc	ug/L	MW-15R	08/31/2010		48.9000		
Zinc	ug/L	MW-15R	11/04/2010		22.6000		
Zinc	ug/L	MW-15R	02/16/2011	ND	20.0000		
Zinc	ug/L	MW-15R	10/27/2011		39.4000		
Zinc	ug/L	MW-15R	04/26/2012		23.8000		
Zinc	ug/L	MW-15R	10/09/2012		145.0000		
Zinc	ug/L	MW-15R	02/20/2013		51.1000		
Zinc	ug/L	MW-15R	10/03/2013		185.0000		
Zinc	ug/L	MW-15R	04/22/2014	ND	20.0000		
Zinc	ug/L	MW-15R	10/14/2014	ND	20.0000		
Zinc	ug/L	MW-15R	05/12/2015	ND	7.9300	20.0000	**
Zinc	ug/L	MW-15R	07/29/2015	ND	10.0000	20.0000	**
Zinc	ug/L	MW-15R	02/15/2016	ND	10.0000	20.0000	**
Zinc	ug/L	MW-15R	10/31/2016	ND	10.0000	20.0000	**
Zinc	ug/L	MW-15R	03/27/2017	ND	20.0000		
Zinc	ug/L	MW-15R	11/13/2017	ND	20.0000		
Zinc	ug/L	MW-15R	06/06/2018	ND	10.8000	20.0000	**
Zinc	ug/L	MW-15R	11/27/2018	ND	20.0000		
Zinc	ug/L	MW-15R	03/18/2019	ND	20.0000		
Zinc	ug/L	MW-15R	12/02/2019	ND	20.0000		
Zinc	ug/L	MW-15R	03/30/2020	ND	20.0000		
Zinc	ug/L	MW-15R	11/17/2020	ND	20.0000		
Zinc	ug/L	MW-15R	05/06/2021	ND	20.0000		
Zinc	ug/L	MW-15R	10/07/2021	ND	20.0000		
Zinc	ug/L	MW-15R	04/06/2022	ND	20.0000		
Zinc	ug/L	MW-15R	08/23/2022	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	
Zinc	ug/L	MW-15R	03/08/2023	ND	20.0000		
Zinc	ug/L	MW-15R	09/13/2023	ND	20.0000		
Zinc	ug/L	MW-15R	05/29/2024	ND	20.0000		
Zinc	ug/L	MW-15R	10/15/2024	ND	20.0000		
Zinc	ug/L	MW-15R	04/16/2025		12.8000		
Zinc	ug/L	MW-15R	07/14/2025		11.7000		
Zinc	ug/L	MW-15R	10/27/2025		5.0000		
Antimony	ug/L	MW-27	04/16/2025	ND	1.0000	1.0300	**
Antimony	ug/L	MW-27	10/27/2025	ND	1.0000	1.0300	**
Arsenic	ug/L	MW-27	04/16/2025	ND	2.0000	1.3400	**
Arsenic	ug/L	MW-27	10/27/2025	ND	2.0000	1.3400	**
Barium	ug/L	MW-27	04/16/2025		329.0000		
Barium	ug/L	MW-27	10/27/2025		273.0000		
Beryllium	ug/L	MW-27	04/16/2025	ND	0.5000	1.0000	**
Beryllium	ug/L	MW-27	10/27/2025	ND	0.5000	1.0000	**
Cadmium	ug/L	MW-27	04/16/2025	ND	0.2000		
Cadmium	ug/L	MW-27	10/27/2025	ND	0.2000		
Chromium	ug/L	MW-27	04/16/2025		2.1000		
Chromium	ug/L	MW-27	10/27/2025		2.0000		
Cobalt	ug/L	MW-27	04/16/2025	ND	0.5000		
Cobalt	ug/L	MW-27	10/27/2025	ND	0.5000		
Copper	ug/L	MW-27	04/16/2025	ND	5.0000		
Copper	ug/L	MW-27	10/27/2025	ND	5.0000		
Lead	ug/L	MW-27	04/16/2025	ND	1.0000		
Lead	ug/L	MW-27	10/27/2025	ND	1.0000		
Nickel	ug/L	MW-27	04/16/2025	ND	5.0000		
Nickel	ug/L	MW-27	10/27/2025	ND	5.0000		
Selenium	ug/L	MW-27	04/16/2025	ND	2.0000	4.0000	**
Selenium	ug/L	MW-27	10/27/2025	ND	2.0000	4.0000	**
Silver	ug/L	MW-27	04/16/2025	ND	5.0000		
Silver	ug/L	MW-27	10/27/2025	ND	5.0000		
Thallium	ug/L	MW-27	04/16/2025	ND	0.5000	1.0000	**
Thallium	ug/L	MW-27	10/27/2025	ND	0.5000	1.0000	**
Vanadium	ug/L	MW-27	04/16/2025	ND	2.0000	5.0000	**
Vanadium	ug/L	MW-27	10/27/2025	ND	2.0000	5.0000	**
Zinc	ug/L	MW-27	04/16/2025	ND	5.0000	20.0000	**
Zinc	ug/L	MW-27	10/27/2025	ND	5.0000	20.0000	**
Antimony	ug/L	MW-28	04/16/2025	ND	1.0000	1.0300	**
Antimony	ug/L	MW-28	10/27/2025	ND	1.0000	1.0300	**
Arsenic	ug/L	MW-28	04/16/2025	ND	2.0000	1.3400	**
Arsenic	ug/L	MW-28	10/27/2025	ND	2.0000	1.3400	**
Barium	ug/L	MW-28	04/16/2025		80.0000		
Barium	ug/L	MW-28	10/27/2025		67.7000		
Beryllium	ug/L	MW-28	04/16/2025	ND	0.5000	1.0000	**
Beryllium	ug/L	MW-28	10/27/2025	ND	0.5000	1.0000	**
Cadmium	ug/L	MW-28	04/16/2025		0.2000		
Cadmium	ug/L	MW-28	10/27/2025	ND	0.2000		
Chromium	ug/L	MW-28	04/16/2025		1.9000		
Chromium	ug/L	MW-28	10/27/2025		1.6000		
Cobalt	ug/L	MW-28	04/16/2025	ND	0.5000		
Cobalt	ug/L	MW-28	10/27/2025	ND	0.5000		
Copper	ug/L	MW-28	04/16/2025	ND	5.0000		
Copper	ug/L	MW-28	10/27/2025	ND	5.0000		
Lead	ug/L	MW-28	04/16/2025	ND	1.0000		
Lead	ug/L	MW-28	10/27/2025	ND	1.0000		
Nickel	ug/L	MW-28	04/16/2025	ND	5.0000		
Nickel	ug/L	MW-28	10/27/2025	ND	5.0000		
Selenium	ug/L	MW-28	04/16/2025	ND	2.0000	4.0000	**
Selenium	ug/L	MW-28	10/27/2025	ND	2.0000	4.0000	**
Silver	ug/L	MW-28	04/16/2025	ND	5.0000		
Silver	ug/L	MW-28	10/27/2025	ND	5.0000		
Thallium	ug/L	MW-28	04/16/2025	ND	0.5000	1.0000	**
Thallium	ug/L	MW-28	10/27/2025	ND	0.5000	1.0000	**
Vanadium	ug/L	MW-28	04/16/2025	ND	2.0000	5.0000	**
Vanadium	ug/L	MW-28	10/27/2025	ND	2.0000	5.0000	**
Zinc	ug/L	MW-28	04/16/2025		6.1000		
Zinc	ug/L	MW-28	10/27/2025	ND	5.0000	20.0000	**
Antimony	ug/L	MW-29	04/16/2025	ND	1.0000	1.0300	**
Antimony	ug/L	MW-29	10/27/2025	ND	1.0000	1.0300	**
Arsenic	ug/L	MW-29	04/16/2025	ND	2.0000	1.3400	**
Arsenic	ug/L	MW-29	10/27/2025	ND	2.0000	1.3400	**
Barium	ug/L	MW-29	04/16/2025		303.0000		
Barium	ug/L	MW-29	10/27/2025		235.0000		
Beryllium	ug/L	MW-29	04/16/2025	ND	0.5000	1.0000	**

* - 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	
Beryllium	ug/L	MW-29	10/27/2025	ND	0.5000	1.0000	**
Cadmium	ug/L	MW-29	04/16/2025	ND	0.2000		
Cadmium	ug/L	MW-29	10/27/2025	ND	0.2000		
Chromium	ug/L	MW-29	04/16/2025		3.8000		
Chromium	ug/L	MW-29	10/27/2025		3.5000		
Cobalt	ug/L	MW-29	04/16/2025	ND	0.5000		
Cobalt	ug/L	MW-29	10/27/2025	ND	0.5000		
Copper	ug/L	MW-29	04/16/2025	ND	5.0000		
Copper	ug/L	MW-29	10/27/2025	ND	5.0000		
Lead	ug/L	MW-29	04/16/2025	ND	1.0000		
Lead	ug/L	MW-29	10/27/2025	ND	1.0000		
Nickel	ug/L	MW-29	04/16/2025	ND	5.0000		
Nickel	ug/L	MW-29	10/27/2025	ND	5.0000		
Selenium	ug/L	MW-29	04/16/2025		2.4000		
Selenium	ug/L	MW-29	10/27/2025		2.7000		
Silver	ug/L	MW-29	04/16/2025	ND	5.0000		
Silver	ug/L	MW-29	10/27/2025	ND	5.0000		
Thallium	ug/L	MW-29	04/16/2025	ND	0.5000	1.0000	**
Thallium	ug/L	MW-29	10/27/2025	ND	0.5000	1.0000	**
Vanadium	ug/L	MW-29	04/16/2025	ND	2.0000	5.0000	**
Vanadium	ug/L	MW-29	10/27/2025	ND	2.0000	5.0000	**
Zinc	ug/L	MW-29	04/16/2025	ND	5.0000	20.0000	**
Zinc	ug/L	MW-29	10/27/2025	ND	5.0000	20.0000	**
Antimony	ug/L	MW-40	04/16/2025	ND	1.0000		*
Antimony	ug/L	MW-40	10/27/2025	ND	1.0000	1.0300	**
Arsenic	ug/L	MW-40	04/16/2025	ND	2.0000		*
Arsenic	ug/L	MW-40	10/27/2025	ND	2.0000	1.3400	**
Barium	ug/L	MW-40	04/16/2025		607.0000		*
Barium	ug/L	MW-40	10/27/2025		100.0000		
Beryllium	ug/L	MW-40	04/16/2025		2.2000		*
Beryllium	ug/L	MW-40	10/27/2025	ND	0.5000	1.0000	**
Cadmium	ug/L	MW-40	04/16/2025		4.3000		*
Cadmium	ug/L	MW-40	10/27/2025	ND	0.2000		
Chromium	ug/L	MW-40	04/16/2025		39.8000		*
Chromium	ug/L	MW-40	10/27/2025		2.2000		
Cobalt	ug/L	MW-40	04/16/2025		61.9000		*
Cobalt	ug/L	MW-40	10/27/2025		1.4000		
Copper	ug/L	MW-40	04/16/2025		57.8000		*
Copper	ug/L	MW-40	10/27/2025	ND	5.0000		
Lead	ug/L	MW-40	04/16/2025		52.5000		*
Lead	ug/L	MW-40	10/27/2025	ND	1.0000		
Nickel	ug/L	MW-40	04/16/2025		67.0000		*
Nickel	ug/L	MW-40	10/27/2025	ND	5.0000		
Selenium	ug/L	MW-40	04/16/2025	ND	2.0000		*
Selenium	ug/L	MW-40	10/27/2025		3.4000		
Silver	ug/L	MW-40	04/16/2025	ND	5.0000		*
Silver	ug/L	MW-40	10/27/2025	ND	5.0000		
Thallium	ug/L	MW-40	04/16/2025		0.7000		*
Thallium	ug/L	MW-40	10/27/2025	ND	0.5000	1.0000	**
Vanadium	ug/L	MW-40	04/16/2025		66.8000		*
Vanadium	ug/L	MW-40	10/27/2025	ND	2.0000	5.0000	**
Zinc	ug/L	MW-40	04/16/2025		95.1000		*
Zinc	ug/L	MW-40	10/27/2025	ND	5.0000	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	ug/L	MW-19	10/27/2025	ND	1.0000		1.0300
Arsenic	ug/L	MW-19	10/27/2025		3.5000		19.7000
Barium	ug/L	MW-19	10/27/2025		1040.0000	***	767.6331
Beryllium	ug/L	MW-19	10/27/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-19	10/27/2025	ND	0.2000		1.2500
Chromium	ug/L	MW-19	10/27/2025		1.3000		5.0000
Cobalt	ug/L	MW-19	10/27/2025		25.6000	***	7.9000
Copper	ug/L	MW-19	10/27/2025	ND	5.0000		5.0000
Lead	ug/L	MW-19	10/27/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-19	10/27/2025		57.9000	***	6.5000
Selenium	ug/L	MW-19	10/27/2025	ND	2.0000		4.0000
Silver	ug/L	MW-19	10/27/2025	ND	5.0000		5.0000
Thallium	ug/L	MW-19	10/27/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-19	10/27/2025	ND	2.0000		5.2000
Zinc	ug/L	MW-19	10/27/2025		14.1000		185.0000
Antimony	ug/L	MW-20	10/27/2025	ND	1.0000		1.0300
Arsenic	ug/L	MW-20	10/27/2025		86.0000	***	19.7000
Barium	ug/L	MW-20	10/27/2025		2060.0000	***	767.6331
Beryllium	ug/L	MW-20	10/27/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-20	10/27/2025	ND	0.2000		1.2500
Chromium	ug/L	MW-20	10/27/2025		1.7000		5.0000
Cobalt	ug/L	MW-20	10/27/2025		6.7000		7.9000
Copper	ug/L	MW-20	10/27/2025	ND	5.0000		5.0000
Lead	ug/L	MW-20	10/27/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-20	10/27/2025		28.0000	***	6.5000
Selenium	ug/L	MW-20	10/27/2025	ND	2.0000		4.0000
Silver	ug/L	MW-20	10/27/2025	ND	5.0000		5.0000
Thallium	ug/L	MW-20	10/27/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-20	10/27/2025		2.5000		5.2000
Zinc	ug/L	MW-20	10/27/2025		11.2000		185.0000
Antimony	ug/L	MW-21	10/27/2025	ND	1.0000		1.0300
Arsenic	ug/L	MW-21	10/27/2025		13.3000		19.7000
Barium	ug/L	MW-21	10/27/2025		634.0000	**	767.6331
Beryllium	ug/L	MW-21	10/27/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-21	10/27/2025	ND	0.2000		1.2500
Chromium	ug/L	MW-21	10/27/2025		1.6000		5.0000
Cobalt	ug/L	MW-21	10/27/2025		6.1000	**	7.9000
Copper	ug/L	MW-21	10/27/2025	ND	5.0000		5.0000
Lead	ug/L	MW-21	10/27/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-21	10/27/2025		8.3000	***	6.5000
Selenium	ug/L	MW-21	10/27/2025	ND	2.0000		4.0000
Silver	ug/L	MW-21	10/27/2025	ND	5.0000		5.0000
Thallium	ug/L	MW-21	10/27/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-21	10/27/2025	ND	2.0000		5.2000
Zinc	ug/L	MW-21	10/27/2025	ND	5.0000		185.0000
Antimony	ug/L	MW-24	10/27/2025	ND	1.0000		1.0300
Arsenic	ug/L	MW-24	10/27/2025		9.5000		19.7000
Barium	ug/L	MW-24	10/27/2025		618.0000	**	767.6331
Beryllium	ug/L	MW-24	10/27/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-24	10/27/2025		0.9000		1.2500
Chromium	ug/L	MW-24	10/27/2025		1.1000		5.0000
Cobalt	ug/L	MW-24	10/27/2025		2.0000		7.9000
Copper	ug/L	MW-24	10/27/2025	ND	5.0000		5.0000
Lead	ug/L	MW-24	10/27/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-24	10/27/2025		26.5000	***	6.5000
Selenium	ug/L	MW-24	10/27/2025	ND	2.0000		4.0000
Silver	ug/L	MW-24	10/27/2025	ND	5.0000		5.0000
Thallium	ug/L	MW-24	10/27/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-24	10/27/2025	ND	2.0000		5.2000
Zinc	ug/L	MW-24	10/27/2025	ND	5.0000		185.0000
Antimony	ug/L	MW-37R	10/27/2025	ND	1.0000		1.0300
Arsenic	ug/L	MW-37R	10/27/2025	ND	2.0000		19.7000
Barium	ug/L	MW-37R	10/27/2025		925.0000	*	767.6331
Beryllium	ug/L	MW-37R	10/27/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-37R	10/27/2025	ND	0.2000		1.2500
Chromium	ug/L	MW-37R	10/27/2025		1.0000		5.0000
Cobalt	ug/L	MW-37R	10/27/2025	ND	0.5000		7.9000
Copper	ug/L	MW-37R	10/27/2025	ND	5.0000		5.0000
Lead	ug/L	MW-37R	10/27/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-37R	10/27/2025	ND	5.0000		6.5000
Selenium	ug/L	MW-37R	10/27/2025		2.8000	**	4.0000
Silver	ug/L	MW-37R	10/27/2025	ND	5.0000		5.0000

* - 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	ug/L	MW-37R	10/27/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-37R	10/27/2025	ND	2.0000		5.2000
Zinc	ug/L	MW-37R	10/27/2025	ND	5.0000		185.0000
Antimony	ug/L	MW-38R	10/27/2025	ND	1.0000		1.0300
Arsenic	ug/L	MW-38R	10/27/2025	ND	2.0000		19.7000
Barium	ug/L	MW-38R	10/27/2025		247.0000		767.6331
Beryllium	ug/L	MW-38R	10/27/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-38R	10/27/2025	ND	0.2000		1.2500
Chromium	ug/L	MW-38R	10/27/2025		3.2000		5.0000
Cobalt	ug/L	MW-38R	10/27/2025		0.6000		7.9000
Copper	ug/L	MW-38R	10/27/2025	ND	5.0000		5.0000
Lead	ug/L	MW-38R	10/27/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-38R	10/27/2025	ND	5.0000		6.5000
Selenium	ug/L	MW-38R	10/27/2025		5.6000	*	4.0000
Silver	ug/L	MW-38R	10/27/2025	ND	5.0000		5.0000
Thallium	ug/L	MW-38R	10/27/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-38R	10/27/2025		3.1000		5.2000
Zinc	ug/L	MW-38R	10/27/2025	ND	5.0000		185.0000
Antimony	ug/L	MW-39	10/27/2025	ND	1.0000		1.0300
Arsenic	ug/L	MW-39	10/27/2025	ND	2.0000		19.7000
Barium	ug/L	MW-39	10/27/2025		97.5000		767.6331
Beryllium	ug/L	MW-39	10/27/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-39	10/27/2025	ND	0.2000		1.2500
Chromium	ug/L	MW-39	10/27/2025		2.1000		5.0000
Cobalt	ug/L	MW-39	10/27/2025	ND	0.5000		7.9000
Copper	ug/L	MW-39	10/27/2025	ND	5.0000		5.0000
Lead	ug/L	MW-39	10/27/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-39	10/27/2025	ND	5.0000		6.5000
Selenium	ug/L	MW-39	10/27/2025		71.5000	***	4.0000
Silver	ug/L	MW-39	10/27/2025	ND	5.0000		5.0000
Thallium	ug/L	MW-39	10/27/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-39	10/27/2025	ND	2.0000		5.2000
Zinc	ug/L	MW-39	10/27/2025	ND	5.0000		185.0000
Antimony	ug/L	MW-43	10/27/2025	ND	1.0000		1.0300
Arsenic	ug/L	MW-43	10/27/2025		2.4000		19.7000
Barium	ug/L	MW-43	10/27/2025		319.0000		767.6331
Beryllium	ug/L	MW-43	10/27/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-43	10/27/2025		0.2000		1.2500
Chromium	ug/L	MW-43	10/27/2025		1.1000		5.0000
Cobalt	ug/L	MW-43	10/27/2025		4.3000		7.9000
Copper	ug/L	MW-43	10/27/2025	ND	5.0000		5.0000
Lead	ug/L	MW-43	10/27/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-43	10/27/2025		9.6000	*	6.5000
Selenium	ug/L	MW-43	10/27/2025	ND	2.0000		4.0000
Silver	ug/L	MW-43	10/27/2025	ND	5.0000		5.0000
Thallium	ug/L	MW-43	10/27/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-43	10/27/2025		2.2000		5.2000
Zinc	ug/L	MW-43	10/27/2025		9.5000		185.0000

* - 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	0	41	0.000	1	200	0.005
Arsenic	8	42	0.190	83	222	0.374
Barium	42	42	1.000	216	216	1.000
Beryllium	0	40	0.000	5	200	0.025
Cadmium	12	42	0.286	89	202	0.441
Chromium	10	42	0.238	24	200	0.120
Cobalt	9	42	0.214	137	213	0.643
Copper	0	42	0.000	17	200	0.085
Lead	2	42	0.048	47	201	0.234
Nickel	2	42	0.048	121	212	0.571
Selenium	3	42	0.071	67	203	0.330
Silver	0	42	0.000	0	200	0.000
Thallium	0	42	0.000	2	200	0.010
Vanadium	1	42	0.024	12	200	0.060
Zinc	12	42	0.286	53	200	0.265

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	0	41	0.000									nonpar
Arsenic	8	42	0.190	1.368	1.430					2.326	normal	nonpar
Barium	42	42	1.000	3.839	1.042					2.326	lognor	lognor
Beryllium	0	40	0.000									nonpar
Cadmium	12	42	0.286	0.168	1.147					2.326	normal	nonpar
Chromium	10	42	0.238	0.495	0.495					2.326	normal	nonpar
Cobalt	9	42	0.214	1.970	0.690					2.326	normal	nonpar
Copper	0	42	0.000									nonpar
Lead	2	42	0.048									nonpar
Nickel	2	42	0.048									nonpar
Selenium	3	42	0.071									nonpar
Silver	0	42	0.000									nonpar
Thallium	0	42	0.000									nonpar
Vanadium	1	42	0.024									nonpar
Zinc	12	42	0.286	2.515	1.269					2.326	lognor	nonpar

* - Distribution override for that constituent.

Fit to distribution is confirmed if $G \leq$ 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	ug/L	0	41					1.0300	nonpar	***	0.99
Arsenic	ug/L	8	42					19.7000	nonpar		0.99
Barium	ug/L	42	42	5.2333	0.5757	0.0100	2.4494	767.6331	lognor		
Beryllium	ug/L	0	40					1.0000	nonpar	***	0.99
Cadmium	ug/L	12	42					1.2500	nonpar		0.99
Chromium	ug/L	10	42					5.0000	nonpar	***	0.99
Cobalt	ug/L	9	42					7.9000	nonpar		0.99
Copper	ug/L	0	42					5.0000	nonpar	***	0.99
Lead	ug/L	2	42					1.0000	nonpar	***	0.99
Nickel	ug/L	2	42					6.5000	nonpar		0.99
Selenium	ug/L	3	42					4.0000	nonpar	***	0.99
Silver	ug/L	0	42					5.0000	nonpar	***	0.99
Thallium	ug/L	0	42					1.0000	nonpar	***	0.99
Vanadium	ug/L	1	42					5.2000	nonpar		0.99
Zinc	ug/L	12	42					185.0000	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
Antimony	ug/L	MW-15R	11/13/2017	0.2550	< 0.2550	03/11/2010-10/27/2025	35	0.4318
Beryllium	ug/L	MW-15R	04/26/2012	4.0000	< 4.0000	03/11/2010-10/27/2025	35	0.4359
Beryllium	ug/L	MW-15R	10/15/2024	4.0000	< 4.0000	03/11/2010-10/27/2025	35	0.4359

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
Barium	ug/L	MW-19	02/11/2008		675.0000	767.6331
Barium	ug/L	MW-19	04/30/2008		791.0000 *	767.6331
Barium	ug/L	MW-19	07/09/2008		600.0000	767.6331
Barium	ug/L	MW-19	09/11/2008		309.0000	767.6331
Barium	ug/L	MW-19	12/10/2008		599.0000	767.6331
Barium	ug/L	MW-19	03/03/2009		670.0000	767.6331
Barium	ug/L	MW-19	08/21/2009		546.0000	767.6331
Barium	ug/L	MW-19	03/11/2010		567.0000	767.6331
Barium	ug/L	MW-19	08/31/2010		490.0000	767.6331
Barium	ug/L	MW-19	02/16/2011		607.0000	767.6331
Barium	ug/L	MW-19	07/07/2011		4440.0000 *	767.6331
Barium	ug/L	MW-19	10/27/2011		639.0000	767.6331
Barium	ug/L	MW-19	04/26/2012		918.0000 *	767.6331
Barium	ug/L	MW-19	10/09/2012		990.0000 *	767.6331
Barium	ug/L	MW-19	02/20/2013		1110.0000 *	767.6331
Barium	ug/L	MW-19	05/15/2013		1020.0000 *	767.6331
Barium	ug/L	MW-19	10/03/2013		1010.0000 *	767.6331
Barium	ug/L	MW-19	04/22/2014		1170.0000 *	767.6331
Barium	ug/L	MW-19	10/14/2014		1010.0000 *	767.6331
Barium	ug/L	MW-19	05/12/2015		978.0000 *	767.6331
Barium	ug/L	MW-19	07/29/2015		860.0000 *	767.6331
Barium	ug/L	MW-19	02/15/2016		838.0000 *	767.6331
Barium	ug/L	MW-19	10/31/2016		792.0000 *	767.6331
Barium	ug/L	MW-19	03/27/2017		875.0000 *	767.6331
Barium	ug/L	MW-19	11/13/2017		978.0000 *	767.6331
Barium	ug/L	MW-19	06/06/2018		1120.0000 *	767.6331
Barium	ug/L	MW-19	11/26/2018		1040.0000 *	767.6331
Barium	ug/L	MW-19	03/18/2019		1160.0000 *	767.6331
Barium	ug/L	MW-19	12/02/2019		1030.0000 *	767.6331
Barium	ug/L	MW-19	03/30/2020		1040.0000 *	767.6331
Barium	ug/L	MW-19	11/17/2020		1150.0000 *	767.6331
Barium	ug/L	MW-19	05/06/2021		1150.0000 *	767.6331
Barium	ug/L	MW-19	10/07/2021		1140.0000 *	767.6331
Barium	ug/L	MW-19	04/06/2022		1300.0000 *	767.6331
Barium	ug/L	MW-19	08/23/2022		1110.0000 *	767.6331
Barium	ug/L	MW-19	03/08/2023		1270.0000 *	767.6331
Barium	ug/L	MW-19	09/13/2023		1240.0000 *	767.6331
Barium	ug/L	MW-19	05/29/2024		1070.0000 *	767.6331
Barium	ug/L	MW-19	10/15/2024		966.0000 *	767.6331
Barium	ug/L	MW-19	04/16/2025		1240.0000 *	767.6331
Barium	ug/L	MW-19	10/27/2025		1040.0000 *	767.6331
Cobalt	ug/L	MW-19	02/11/2008	ND	20.0000	7.9000
Cobalt	ug/L	MW-19	04/30/2008	ND	1.4000	7.9000
Cobalt	ug/L	MW-19	07/09/2008	ND	20.0000	7.9000
Cobalt	ug/L	MW-19	09/11/2008	ND	20.0000	7.9000
Cobalt	ug/L	MW-19	12/10/2008	ND	20.0000	7.9000
Cobalt	ug/L	MW-19	03/03/2009	ND	20.0000	7.9000
Cobalt	ug/L	MW-19	08/21/2009	ND	20.0000	7.9000
Cobalt	ug/L	MW-19	03/11/2010		2.5200	7.9000
Cobalt	ug/L	MW-19	08/31/2010	ND	1.5500	7.9000
Cobalt	ug/L	MW-19	02/16/2011		2.1400	7.9000
Cobalt	ug/L	MW-19	07/07/2011		27.1000 *	7.9000
Cobalt	ug/L	MW-19	10/27/2011		3.6700	7.9000
Cobalt	ug/L	MW-19	04/26/2012		23.5000 *	7.9000
Cobalt	ug/L	MW-19	10/09/2012		11.6000 *	7.9000
Cobalt	ug/L	MW-19	02/20/2013		22.5000 *	7.9000
Cobalt	ug/L	MW-19	10/03/2013		20.3000 *	7.9000
Cobalt	ug/L	MW-19	04/22/2014		18.4000 *	7.9000
Cobalt	ug/L	MW-19	10/14/2014		19.3000 *	7.9000
Cobalt	ug/L	MW-19	05/12/2015		12.7000 *	7.9000
Cobalt	ug/L	MW-19	07/29/2015		10.2000 *	7.9000
Cobalt	ug/L	MW-19	02/15/2016		9.8100 *	7.9000
Cobalt	ug/L	MW-19	10/31/2016		7.0800	7.9000
Cobalt	ug/L	MW-19	03/27/2017		6.3100	7.9000
Cobalt	ug/L	MW-19	11/13/2017		11.4000 *	7.9000
Cobalt	ug/L	MW-19	06/06/2018		15.8000 *	7.9000
Cobalt	ug/L	MW-19	11/26/2018		16.9000 *	7.9000
Cobalt	ug/L	MW-19	03/18/2019		13.3000 *	7.9000
Cobalt	ug/L	MW-19	12/02/2019		15.5000 *	7.9000
Cobalt	ug/L	MW-19	03/30/2020		14.2000 *	7.9000
Cobalt	ug/L	MW-19	11/17/2020		20.6000 *	7.9000

* - 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
Cobalt	ug/L	MW-19	05/06/2021		20.1000	*	7.9000
Cobalt	ug/L	MW-19	10/07/2021		22.6000	*	7.9000
Cobalt	ug/L	MW-19	04/06/2022		25.6000	*	7.9000
Cobalt	ug/L	MW-19	08/23/2022		21.3000	*	7.9000
Cobalt	ug/L	MW-19	03/08/2023		23.5500	*	7.9000
Cobalt	ug/L	MW-19	09/13/2023		23.8000	*	7.9000
Cobalt	ug/L	MW-19	05/29/2024		23.4000	*	7.9000
Cobalt	ug/L	MW-19	10/15/2024		19.5000	*	7.9000
Cobalt	ug/L	MW-19	04/16/2025		22.6000	*	7.9000
Cobalt	ug/L	MW-19	10/27/2025		25.6000	*	7.9000
Nickel	ug/L	MW-19	02/11/2008	ND	50.0000		6.5000
Nickel	ug/L	MW-19	04/30/2008	ND	4.6000		6.5000
Nickel	ug/L	MW-19	07/09/2008	ND	50.0000		6.5000
Nickel	ug/L	MW-19	09/11/2008	ND	50.0000		6.5000
Nickel	ug/L	MW-19	12/10/2008	ND	50.0000		6.5000
Nickel	ug/L	MW-19	03/03/2009	ND	50.0000		6.5000
Nickel	ug/L	MW-19	08/21/2009	ND	50.0000		6.5000
Nickel	ug/L	MW-19	03/11/2010	ND	50.0000		6.5000
Nickel	ug/L	MW-19	08/31/2010	ND	50.0000		6.5000
Nickel	ug/L	MW-19	02/16/2011	ND	50.0000		6.5000
Nickel	ug/L	MW-19	07/07/2011		127.0000	*	6.5000
Nickel	ug/L	MW-19	10/27/2011	ND	50.0000		6.5000
Nickel	ug/L	MW-19	04/26/2012		59.3000	*	6.5000
Nickel	ug/L	MW-19	10/09/2012		51.4000	*	6.5000
Nickel	ug/L	MW-19	02/20/2013	ND	50.0000		6.5000
Nickel	ug/L	MW-19	05/15/2013	ND	50.0000		6.5000
Nickel	ug/L	MW-19	10/03/2013		59.0000	*	6.5000
Nickel	ug/L	MW-19	04/22/2014		75.6000	*	6.5000
Nickel	ug/L	MW-19	10/14/2014		79.7000	*	6.5000
Nickel	ug/L	MW-19	05/12/2015		60.3000	*	6.5000
Nickel	ug/L	MW-19	07/29/2015		58.5000	*	6.5000
Nickel	ug/L	MW-19	02/15/2016		53.1000	*	6.5000
Nickel	ug/L	MW-19	10/31/2016		43.4000	*	6.5000
Nickel	ug/L	MW-19	03/27/2017		49.9000	*	6.5000
Nickel	ug/L	MW-19	11/13/2017		45.4000	*	6.5000
Nickel	ug/L	MW-19	06/06/2018		60.5000	*	6.5000
Nickel	ug/L	MW-19	11/26/2018		62.7000	*	6.5000
Nickel	ug/L	MW-19	03/18/2019		64.5000	*	6.5000
Nickel	ug/L	MW-19	12/02/2019		59.6000	*	6.5000
Nickel	ug/L	MW-19	03/30/2020		58.1000	*	6.5000
Nickel	ug/L	MW-19	11/17/2020		60.4000	*	6.5000
Nickel	ug/L	MW-19	05/06/2021		49.5000	*	6.5000
Nickel	ug/L	MW-19	10/07/2021		56.4000	*	6.5000
Nickel	ug/L	MW-19	04/06/2022		64.3000	*	6.5000
Nickel	ug/L	MW-19	08/23/2022		63.8000	*	6.5000
Nickel	ug/L	MW-19	03/08/2023		61.6500	*	6.5000
Nickel	ug/L	MW-19	09/13/2023		43.1000	*	6.5000
Nickel	ug/L	MW-19	05/29/2024		59.6000	*	6.5000
Nickel	ug/L	MW-19	10/15/2024		55.7000	*	6.5000
Nickel	ug/L	MW-19	04/16/2025		52.9000	*	6.5000
Nickel	ug/L	MW-19	10/27/2025		57.9000	*	6.5000
Arsenic	ug/L	MW-20	09/11/2008		6.6000		19.7000
Arsenic	ug/L	MW-20	12/10/2008		66.3000	*	19.7000
Arsenic	ug/L	MW-20	03/03/2009		80.4000	*	19.7000
Arsenic	ug/L	MW-20	08/21/2009		108.0000	*	19.7000
Arsenic	ug/L	MW-20	10/21/2009		95.0000	*	19.7000
Arsenic	ug/L	MW-20	03/11/2010		83.5000	*	19.7000
Arsenic	ug/L	MW-20	08/31/2010		20.0000	*	19.7000
Arsenic	ug/L	MW-20	02/16/2011		136.0000	*	19.7000
Arsenic	ug/L	MW-20	10/27/2011		92.6000	*	19.7000
Arsenic	ug/L	MW-20	04/26/2012		85.3000	*	19.7000
Arsenic	ug/L	MW-20	10/09/2012		49.1000	*	19.7000
Arsenic	ug/L	MW-20	02/20/2013		90.4000	*	19.7000
Arsenic	ug/L	MW-20	10/03/2013		153.0000	*	19.7000
Arsenic	ug/L	MW-20	04/22/2014		111.0000	*	19.7000
Arsenic	ug/L	MW-20	10/14/2014		140.0000	*	19.7000
Arsenic	ug/L	MW-20	05/12/2015		97.3000	*	19.7000
Arsenic	ug/L	MW-20	07/29/2015		77.4000	*	19.7000
Arsenic	ug/L	MW-20	02/15/2016		62.8000	*	19.7000
Arsenic	ug/L	MW-20	10/31/2016		102.0000	*	19.7000
Arsenic	ug/L	MW-20	03/27/2017		61.0000	*	19.7000

* - Significantly increased over background.

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*** - 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
Arsenic	ug/L	MW-20	11/13/2017	ND	81.1000 *	19.7000
Arsenic	ug/L	MW-20	06/06/2018		66.4500 *	19.7000
Arsenic	ug/L	MW-20	11/27/2018		59.2000 *	19.7000
Arsenic	ug/L	MW-20	03/18/2019		43.3000 *	19.7000
Arsenic	ug/L	MW-20	12/02/2019		76.3000 *	19.7000
Arsenic	ug/L	MW-20	03/30/2020		56.4000 *	19.7000
Arsenic	ug/L	MW-20	11/17/2020		63.7000 *	19.7000
Arsenic	ug/L	MW-20	05/06/2021		53.0000 *	19.7000
Arsenic	ug/L	MW-20	10/07/2021		75.8500 *	19.7000
Arsenic	ug/L	MW-20	04/06/2022		83.3000 *	19.7000
Arsenic	ug/L	MW-20	08/23/2022		7.7800 *	19.7000
Arsenic	ug/L	MW-20	03/08/2023		81.3000 *	19.7000
Arsenic	ug/L	MW-20	09/13/2023		80.0000 *	19.7000
Arsenic	ug/L	MW-20	05/29/2024		112.5000 *	19.7000
Arsenic	ug/L	MW-20	10/15/2024		77.5000 *	19.7000
Arsenic	ug/L	MW-20	04/16/2025		71.2000 *	19.7000
Arsenic	ug/L	MW-20	10/27/2025		86.0000 *	19.7000
Barium	ug/L	MW-20	09/11/2008		646.0000	767.6331
Barium	ug/L	MW-20	12/10/2008		3940.0000 *	767.6331
Barium	ug/L	MW-20	03/03/2009		4460.0000 *	767.6331
Barium	ug/L	MW-20	08/21/2009		4150.0000 *	767.6331
Barium	ug/L	MW-20	10/21/2009		4270.0000 *	767.6331
Barium	ug/L	MW-20	03/11/2010		3760.0000 *	767.6331
Barium	ug/L	MW-20	08/31/2010		3880.0000 *	767.6331
Barium	ug/L	MW-20	02/16/2011		4350.0000 *	767.6331
Barium	ug/L	MW-20	10/27/2011		4770.0000 *	767.6331
Barium	ug/L	MW-20	04/26/2012		4920.0000 *	767.6331
Barium	ug/L	MW-20	10/09/2012		4320.0000 *	767.6331
Barium	ug/L	MW-20	02/20/2013		5540.0000 *	767.6331
Barium	ug/L	MW-20	10/03/2013		2730.0000 *	767.6331
Barium	ug/L	MW-20	04/22/2014		2950.0000 *	767.6331
Barium	ug/L	MW-20	10/14/2014		2400.0000 *	767.6331
Barium	ug/L	MW-20	05/12/2015		2430.0000 *	767.6331
Barium	ug/L	MW-20	07/29/2015		2290.0000 *	767.6331
Barium	ug/L	MW-20	02/15/2016		2660.0000 *	767.6331
Barium	ug/L	MW-20	10/31/2016		4200.0000 *	767.6331
Barium	ug/L	MW-20	03/27/2017		2190.0000 *	767.6331
Barium	ug/L	MW-20	11/13/2017		3290.0000 *	767.6331
Barium	ug/L	MW-20	06/06/2018		2400.0000 *	767.6331
Barium	ug/L	MW-20	11/27/2018		1930.0000 *	767.6331
Barium	ug/L	MW-20	03/18/2019		2740.0000 *	767.6331
Barium	ug/L	MW-20	12/02/2019		2960.0000 *	767.6331
Barium	ug/L	MW-20	03/30/2020		1850.0000 *	767.6331
Barium	ug/L	MW-20	11/17/2020		3320.0000 *	767.6331
Barium	ug/L	MW-20	05/06/2021		2090.0000 *	767.6331
Barium	ug/L	MW-20	10/07/2021		2285.0000 *	767.6331
Barium	ug/L	MW-20	04/06/2022		2120.0000 *	767.6331
Barium	ug/L	MW-20	08/23/2022		2470.0000 *	767.6331
Barium	ug/L	MW-20	03/08/2023		3800.0000 *	767.6331
Barium	ug/L	MW-20	09/13/2023		3320.0000 *	767.6331
Barium	ug/L	MW-20	05/29/2024		1640.0000 *	767.6331
Barium	ug/L	MW-20	10/15/2024		2430.0000 *	767.6331
Barium	ug/L	MW-20	04/16/2025		1780.0000 *	767.6331
Barium	ug/L	MW-20	10/27/2025		2060.0000 *	767.6331
Nickel	ug/L	MW-20	09/11/2008	ND	50.0000	6.5000
Nickel	ug/L	MW-20	12/10/2008		112.0000 *	6.5000
Nickel	ug/L	MW-20	03/03/2009		140.0000 *	6.5000
Nickel	ug/L	MW-20	08/21/2009		63.2000 *	6.5000
Nickel	ug/L	MW-20	10/21/2009		127.0000 *	6.5000
Nickel	ug/L	MW-20	03/11/2010		98.1000 *	6.5000
Nickel	ug/L	MW-20	08/31/2010		111.0000 *	6.5000
Nickel	ug/L	MW-20	02/16/2011		128.0000 *	6.5000
Nickel	ug/L	MW-20	10/27/2011		137.0000 *	6.5000
Nickel	ug/L	MW-20	04/26/2012		147.0000 *	6.5000
Nickel	ug/L	MW-20	10/09/2012		111.0000 *	6.5000
Nickel	ug/L	MW-20	02/20/2013		158.0000 *	6.5000
Nickel	ug/L	MW-20	10/03/2013		76.8000 *	6.5000
Nickel	ug/L	MW-20	04/22/2014		54.1000 *	6.5000
Nickel	ug/L	MW-20	10/14/2014		60.4000 *	6.5000
Nickel	ug/L	MW-20	05/12/2015		20.1000 *	6.5000
Nickel	ug/L	MW-20	07/29/2015		28.8000 *	6.5000

* - 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
Nickel	ug/L	MW-20	02/15/2016		45.6000 *	6.5000
Nickel	ug/L	MW-20	10/31/2016		83.8000 *	6.5000
Nickel	ug/L	MW-20	03/27/2017		30.9000 *	6.5000
Nickel	ug/L	MW-20	11/13/2017		56.1000 *	6.5000
Nickel	ug/L	MW-20	06/06/2018		34.6500 *	6.5000
Nickel	ug/L	MW-20	11/27/2018		16.2000 *	6.5000
Nickel	ug/L	MW-20	03/18/2019		46.0000 *	6.5000
Nickel	ug/L	MW-20	12/02/2019		58.2000 *	6.5000
Nickel	ug/L	MW-20	03/30/2020		12.0000 *	6.5000
Nickel	ug/L	MW-20	11/17/2020		71.6000 *	6.5000
Nickel	ug/L	MW-20	05/06/2021		20.5000 *	6.5000
Nickel	ug/L	MW-20	10/07/2021		42.1500 *	6.5000
Nickel	ug/L	MW-20	04/06/2022		31.2000 *	6.5000
Nickel	ug/L	MW-20	08/23/2022		65.0000 *	6.5000
Nickel	ug/L	MW-20	03/08/2023		78.7000 *	6.5000
Nickel	ug/L	MW-20	09/13/2023		48.7000 *	6.5000
Nickel	ug/L	MW-20	05/29/2024		14.4000 *	6.5000
Nickel	ug/L	MW-20	10/15/2024		50.8000 *	6.5000
Nickel	ug/L	MW-20	04/16/2025		9.5000 *	6.5000
Nickel	ug/L	MW-20	10/27/2025		28.0000 *	6.5000
Barium	ug/L	MW-21	12/23/2008		732.0000	767.6331
Barium	ug/L	MW-21	03/03/2009		782.0000 *	767.6331
Barium	ug/L	MW-21	08/21/2009		679.0000	767.6331
Barium	ug/L	MW-21	12/15/2009		630.0000	767.6331
Barium	ug/L	MW-21	03/11/2010		841.0000 *	767.6331
Barium	ug/L	MW-21	08/31/2010		801.0000 *	767.6331
Barium	ug/L	MW-21	02/16/2011		743.0000	767.6331
Barium	ug/L	MW-21	07/07/2011		699.0000	767.6331
Barium	ug/L	MW-21	10/27/2011		633.0000	767.6331
Barium	ug/L	MW-21	04/26/2012		1970.0000 *	767.6331
Barium	ug/L	MW-21	10/09/2012		945.0000 *	767.6331
Barium	ug/L	MW-21	02/20/2013		1080.0000 *	767.6331
Barium	ug/L	MW-21	10/03/2013		1390.0000 *	767.6331
Barium	ug/L	MW-21	04/22/2014		1110.0000 *	767.6331
Barium	ug/L	MW-21	05/12/2015		929.0000 *	767.6331
Barium	ug/L	MW-21	07/29/2015		978.0000 *	767.6331
Barium	ug/L	MW-21	02/15/2016		969.0000 *	767.6331
Barium	ug/L	MW-21	10/31/2016		1000.0000 *	767.6331
Barium	ug/L	MW-21	03/27/2017		969.0000 *	767.6331
Barium	ug/L	MW-21	11/13/2017		958.0000 *	767.6331
Barium	ug/L	MW-21	06/06/2018		957.0000 *	767.6331
Barium	ug/L	MW-21	11/27/2018		421.0000	767.6331
Barium	ug/L	MW-21	03/18/2019		236.0000	767.6331
Barium	ug/L	MW-21	12/02/2019		969.0000 *	767.6331
Barium	ug/L	MW-21	03/30/2020		1180.0000 *	767.6331
Barium	ug/L	MW-21	11/17/2020		894.0000 *	767.6331
Barium	ug/L	MW-21	05/06/2021		909.0000 *	767.6331
Barium	ug/L	MW-21	10/07/2021		733.0000	767.6331
Barium	ug/L	MW-21	04/06/2022		1050.0000 *	767.6331
Barium	ug/L	MW-21	08/23/2022		1095.0000 *	767.6331
Barium	ug/L	MW-21	03/08/2023		1210.0000 *	767.6331
Barium	ug/L	MW-21	09/13/2023		1240.0000 *	767.6331
Barium	ug/L	MW-21	05/29/2024		1110.0000 *	767.6331
Barium	ug/L	MW-21	10/15/2024		1170.0000 *	767.6331
Barium	ug/L	MW-21	04/16/2025		1050.0000 *	767.6331
Barium	ug/L	MW-21	10/27/2025		634.0000	767.6331
Cobalt	ug/L	MW-21	12/23/2008	ND	20.0000	7.9000
Cobalt	ug/L	MW-21	03/03/2009	ND	20.0000	7.9000
Cobalt	ug/L	MW-21	08/21/2009	ND	20.0000	7.9000
Cobalt	ug/L	MW-21	12/15/2009	ND	20.0000	7.9000
Cobalt	ug/L	MW-21	03/11/2010		4.9900	7.9000
Cobalt	ug/L	MW-21	08/31/2010		10.0000 *	7.9000
Cobalt	ug/L	MW-21	02/16/2011		3.4000	7.9000
Cobalt	ug/L	MW-21	07/07/2011		7.1000	7.9000
Cobalt	ug/L	MW-21	10/27/2011	ND	1.5500	7.9000
Cobalt	ug/L	MW-21	04/26/2012		224.0000 *	7.9000
Cobalt	ug/L	MW-21	10/09/2012		13.3000 *	7.9000
Cobalt	ug/L	MW-21	02/20/2013		12.1000 *	7.9000
Cobalt	ug/L	MW-21	10/03/2013		42.9000 *	7.9000
Cobalt	ug/L	MW-21	04/22/2014		16.0000 *	7.9000
Cobalt	ug/L	MW-21	05/12/2015		1.6200	7.9000

* - Significantly increased over background.

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

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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
Cobalt	ug/L	MW-21	07/29/2015		2.4300	7.9000
Cobalt	ug/L	MW-21	02/15/2016	ND	0.0740	7.9000
Cobalt	ug/L	MW-21	10/31/2016		6.5400	7.9000
Cobalt	ug/L	MW-21	03/27/2017	ND	0.3560	7.9000
Cobalt	ug/L	MW-21	11/13/2017		3.5800	7.9000
Cobalt	ug/L	MW-21	06/06/2018		2.4800	7.9000
Cobalt	ug/L	MW-21	11/27/2018		1.3300	7.9000
Cobalt	ug/L	MW-21	03/18/2019		3.3900	7.9000
Cobalt	ug/L	MW-21	12/02/2019		3.3000	7.9000
Cobalt	ug/L	MW-21	03/30/2020		1.7000	7.9000
Cobalt	ug/L	MW-21	11/17/2020		1.8600	7.9000
Cobalt	ug/L	MW-21	05/06/2021		1.6400	7.9000
Cobalt	ug/L	MW-21	10/07/2021		2.6800	7.9000
Cobalt	ug/L	MW-21	04/06/2022		4.6200	7.9000
Cobalt	ug/L	MW-21	08/23/2022		3.9400	7.9000
Cobalt	ug/L	MW-21	03/08/2023		5.7300	7.9000
Cobalt	ug/L	MW-21	09/13/2023		4.6800	7.9000
Cobalt	ug/L	MW-21	05/29/2024		7.1500	7.9000
Cobalt	ug/L	MW-21	10/15/2024		13.4000 *	7.9000
Cobalt	ug/L	MW-21	04/16/2025		19.0000 *	7.9000
Cobalt	ug/L	MW-21	10/27/2025		6.1000	7.9000
Nickel	ug/L	MW-21	12/23/2008	ND	50.0000	6.5000
Nickel	ug/L	MW-21	03/03/2009	ND	50.0000	6.5000
Nickel	ug/L	MW-21	08/21/2009	ND	50.0000	6.5000
Nickel	ug/L	MW-21	12/15/2009	ND	50.0000	6.5000
Nickel	ug/L	MW-21	03/11/2010	ND	50.0000	6.5000
Nickel	ug/L	MW-21	08/31/2010	ND	50.0000	6.5000
Nickel	ug/L	MW-21	02/16/2011	ND	50.0000	6.5000
Nickel	ug/L	MW-21	07/07/2011	ND	50.0000	6.5000
Nickel	ug/L	MW-21	10/27/2011	ND	50.0000	6.5000
Nickel	ug/L	MW-21	04/26/2012		204.0000 *	6.5000
Nickel	ug/L	MW-21	10/09/2012	ND	50.0000	6.5000
Nickel	ug/L	MW-21	02/20/2013	ND	50.0000	6.5000
Nickel	ug/L	MW-21	10/03/2013		72.9000 *	6.5000
Nickel	ug/L	MW-21	04/22/2014	ND	33.5000	6.5000
Nickel	ug/L	MW-21	05/12/2015		17.2000 *	6.5000
Nickel	ug/L	MW-21	07/29/2015		18.5000 *	6.5000
Nickel	ug/L	MW-21	02/15/2016		7.7700 *	6.5000
Nickel	ug/L	MW-21	10/31/2016		14.3000 *	6.5000
Nickel	ug/L	MW-21	03/27/2017		9.9800 *	6.5000
Nickel	ug/L	MW-21	11/13/2017		10.8000 *	6.5000
Nickel	ug/L	MW-21	06/06/2018		12.2000 *	6.5000
Nickel	ug/L	MW-21	11/27/2018		6.5500 *	6.5000
Nickel	ug/L	MW-21	03/18/2019		6.0900	6.5000
Nickel	ug/L	MW-21	12/02/2019	ND	3.4800	6.5000
Nickel	ug/L	MW-21	03/30/2020	ND	5.0000	6.5000
Nickel	ug/L	MW-21	11/17/2020	ND	3.1400	6.5000
Nickel	ug/L	MW-21	05/06/2021	ND	2.6800	6.5000
Nickel	ug/L	MW-21	10/07/2021	ND	4.3200	6.5000
Nickel	ug/L	MW-21	04/06/2022	ND	3.5600	6.5000
Nickel	ug/L	MW-21	08/23/2022	ND	3.5500	6.5000
Nickel	ug/L	MW-21	03/08/2023		8.5300 *	6.5000
Nickel	ug/L	MW-21	09/13/2023	ND	4.4400	6.5000
Nickel	ug/L	MW-21	05/29/2024		11.7000 *	6.5000
Nickel	ug/L	MW-21	10/15/2024		27.2000 *	6.5000
Nickel	ug/L	MW-21	04/16/2025		18.0000 *	6.5000
Nickel	ug/L	MW-21	10/27/2025		8.3000 *	6.5000
Barium	ug/L	MW-24	04/26/2012		595.0000	767.6331
Barium	ug/L	MW-24	07/29/2015		662.0000	767.6331
Barium	ug/L	MW-24	02/15/2016		688.0000	767.6331
Barium	ug/L	MW-24	10/31/2016		151.0000	767.6331
Barium	ug/L	MW-24	03/27/2017		172.0000	767.6331
Barium	ug/L	MW-24	11/13/2017		198.0000	767.6331
Barium	ug/L	MW-24	06/06/2018		259.0000	767.6331
Barium	ug/L	MW-24	11/26/2018		200.0000	767.6331
Barium	ug/L	MW-24	03/30/2020		761.0000	767.6331
Barium	ug/L	MW-24	11/17/2020		896.0000 *	767.6331
Barium	ug/L	MW-24	05/06/2021		735.0000	767.6331
Barium	ug/L	MW-24	10/07/2021		785.0000 *	767.6331
Barium	ug/L	MW-24	04/06/2022		702.0000	767.6331
Barium	ug/L	MW-24	07/08/2022		679.0000	767.6331

* - 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	ug/L	MW-24	08/23/2022		774.0000 *	767.6331
Barium	ug/L	MW-24	09/29/2022		834.0000 *	767.6331
Barium	ug/L	MW-24	03/08/2023		819.0000 *	767.6331
Barium	ug/L	MW-24	09/13/2023		712.0000	767.6331
Barium	ug/L	MW-24	05/29/2024		581.0000	767.6331
Barium	ug/L	MW-24	10/15/2024		700.0000	767.6331
Barium	ug/L	MW-24	04/16/2025		779.0000 *	767.6331
Barium	ug/L	MW-24	10/27/2025		618.0000	767.6331
Nickel	ug/L	MW-24	05/15/2013	ND	50.0000	6.5000
Nickel	ug/L	MW-24	07/29/2015		11.7000 *	6.5000
Nickel	ug/L	MW-24	02/15/2016		28.0000 *	6.5000
Nickel	ug/L	MW-24	10/31/2016	ND	3.5500	6.5000
Nickel	ug/L	MW-24	03/27/2017	ND	3.0200	6.5000
Nickel	ug/L	MW-24	11/13/2017	ND	3.6600	6.5000
Nickel	ug/L	MW-24	06/06/2018		5.5500	6.5000
Nickel	ug/L	MW-24	11/26/2018	ND	2.7200	6.5000
Nickel	ug/L	MW-24	04/06/2022		32.3000 *	6.5000
Nickel	ug/L	MW-24	07/08/2022		29.0000 *	6.5000
Nickel	ug/L	MW-24	08/23/2022		30.6000 *	6.5000
Nickel	ug/L	MW-24	09/29/2022		29.1000 *	6.5000
Nickel	ug/L	MW-24	03/08/2023		30.1000 *	6.5000
Nickel	ug/L	MW-24	09/13/2023		23.9000 *	6.5000
Nickel	ug/L	MW-24	05/29/2024		30.5000 *	6.5000
Nickel	ug/L	MW-24	10/15/2024		32.7000 *	6.5000
Nickel	ug/L	MW-24	04/16/2025		31.3000 *	6.5000
Nickel	ug/L	MW-24	10/27/2025		26.5000 *	6.5000
Barium	ug/L	MW-37R	11/27/2018		828.0000 *	767.6331
Barium	ug/L	MW-37R	03/18/2019		887.0000 *	767.6331
Barium	ug/L	MW-37R	06/05/2019		710.0000	767.6331
Barium	ug/L	MW-37R	08/22/2019		879.0000 *	767.6331
Barium	ug/L	MW-37R	12/02/2019		786.0000 *	767.6331
Barium	ug/L	MW-37R	02/28/2020		857.0000 *	767.6331
Barium	ug/L	MW-37R	03/30/2020		805.0000 *	767.6331
Barium	ug/L	MW-37R	11/17/2020		780.0000 *	767.6331
Barium	ug/L	MW-37R	05/06/2021		907.0000 *	767.6331
Barium	ug/L	MW-37R	10/07/2021		911.0000 *	767.6331
Barium	ug/L	MW-37R	04/06/2022		939.0000 *	767.6331
Barium	ug/L	MW-37R	03/08/2023		863.0000 *	767.6331
Barium	ug/L	MW-37R	09/13/2023		693.0000	767.6331
Barium	ug/L	MW-37R	05/29/2024		686.0000	767.6331
Barium	ug/L	MW-37R	10/15/2024		715.0000	767.6331
Barium	ug/L	MW-37R	04/16/2025		687.0000	767.6331
Barium	ug/L	MW-37R	10/27/2025		925.0000 *	767.6331
Selenium	ug/L	MW-37R	11/27/2018		12.3000 *	4.0000
Selenium	ug/L	MW-37R	03/18/2019		8.0750 *	4.0000
Selenium	ug/L	MW-37R	06/05/2019		10.0000 *	4.0000
Selenium	ug/L	MW-37R	08/22/2019		6.3200 *	4.0000
Selenium	ug/L	MW-37R	12/02/2019		5.0400 *	4.0000
Selenium	ug/L	MW-37R	02/28/2020	ND	4.5800	4.0000
Selenium	ug/L	MW-37R	03/30/2020		5.0100 *	4.0000
Selenium	ug/L	MW-37R	11/17/2020		17.9000 *	4.0000
Selenium	ug/L	MW-37R	05/06/2021		12.9500 *	4.0000
Selenium	ug/L	MW-37R	10/07/2021		11.9000 *	4.0000
Selenium	ug/L	MW-37R	04/06/2022		14.3000 *	4.0000
Selenium	ug/L	MW-37R	03/08/2023		20.1000 *	4.0000
Selenium	ug/L	MW-37R	09/13/2023		55.8000 *	4.0000
Selenium	ug/L	MW-37R	05/29/2024		40.5000 *	4.0000
Selenium	ug/L	MW-37R	10/15/2024		15.8000 *	4.0000
Selenium	ug/L	MW-37R	04/16/2025		50.3000 *	4.0000
Selenium	ug/L	MW-37R	10/27/2025		2.8000	4.0000
Selenium	ug/L	MW-38R	11/27/2018	ND	5.0000	4.0000
Selenium	ug/L	MW-38R	03/18/2019	ND	5.0000	4.0000
Selenium	ug/L	MW-38R	06/05/2019	ND	2.5000	4.0000
Selenium	ug/L	MW-38R	08/22/2019	ND	5.0000	4.0000
Selenium	ug/L	MW-38R	12/02/2019	ND	5.0000	4.0000
Selenium	ug/L	MW-38R	03/30/2020	ND	5.0000	4.0000
Selenium	ug/L	MW-38R	11/17/2020	ND	5.0000	4.0000
Selenium	ug/L	MW-38R	05/06/2021	ND	1.7700	4.0000
Selenium	ug/L	MW-38R	04/06/2022		13.6000 *	4.0000
Selenium	ug/L	MW-38R	08/23/2022		10.3000 *	4.0000
Selenium	ug/L	MW-38R	03/08/2023		29.1000 *	4.0000

* - 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
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Selenium	ug/L	MW-38R	09/13/2023		26.4000	*	4.0000
Selenium	ug/L	MW-38R	05/29/2024		43.2000	*	4.0000
Selenium	ug/L	MW-38R	10/15/2024		7.8000	*	4.0000
Selenium	ug/L	MW-38R	04/16/2025		3.2000		4.0000
Selenium	ug/L	MW-38R	10/27/2025		5.6000	*	4.0000
Selenium	ug/L	MW-39	08/21/2009		83.7000	*	4.0000
Selenium	ug/L	MW-39	12/15/2009		164.0000	*	4.0000
Selenium	ug/L	MW-39	02/18/2010		78.4000	*	4.0000
Selenium	ug/L	MW-39	03/11/2010		80.9500	*	4.0000
Selenium	ug/L	MW-39	05/27/2010		73.7000	*	4.0000
Selenium	ug/L	MW-39	08/31/2010		82.4000	*	4.0000
Selenium	ug/L	MW-39	11/04/2010		72.1000	*	4.0000
Selenium	ug/L	MW-39	02/16/2011		74.3000	*	4.0000
Selenium	ug/L	MW-39	07/07/2011		81.3000	*	4.0000
Selenium	ug/L	MW-39	10/27/2011		97.3000	*	4.0000
Selenium	ug/L	MW-39	04/26/2012		5.9000	*	4.0000
Selenium	ug/L	MW-39	10/09/2012		85.8000	*	4.0000
Selenium	ug/L	MW-39	02/20/2013		42.4000	*	4.0000
Selenium	ug/L	MW-39	10/03/2013		57.6000	*	4.0000
Selenium	ug/L	MW-39	04/22/2014		71.3000	*	4.0000
Selenium	ug/L	MW-39	10/14/2014		66.8000	*	4.0000
Selenium	ug/L	MW-39	05/12/2015		73.2000	*	4.0000
Selenium	ug/L	MW-39	07/29/2015		73.4000	*	4.0000
Selenium	ug/L	MW-39	02/15/2016		74.9000	*	4.0000
Selenium	ug/L	MW-39	10/31/2016		70.4000	*	4.0000
Selenium	ug/L	MW-39	03/27/2017		77.2000	*	4.0000
Selenium	ug/L	MW-39	11/13/2017		71.8500	*	4.0000
Selenium	ug/L	MW-39	06/06/2018		74.5000	*	4.0000
Selenium	ug/L	MW-39	11/27/2018		76.0000	*	4.0000
Selenium	ug/L	MW-39	03/18/2019		76.4000	*	4.0000
Selenium	ug/L	MW-39	12/02/2019		74.8000	*	4.0000
Selenium	ug/L	MW-39	03/30/2020		73.1000	*	4.0000
Selenium	ug/L	MW-39	11/17/2020		71.3000	*	4.0000
Selenium	ug/L	MW-39	05/06/2021		80.1000	*	4.0000
Selenium	ug/L	MW-39	10/07/2021		74.6000	*	4.0000
Selenium	ug/L	MW-39	04/06/2022		79.1000	*	4.0000
Selenium	ug/L	MW-39	08/23/2022		79.9000	*	4.0000
Selenium	ug/L	MW-39	03/08/2023		79.4000	*	4.0000
Selenium	ug/L	MW-39	09/13/2023		75.0500	*	4.0000
Selenium	ug/L	MW-39	05/29/2024		71.4000	*	4.0000
Selenium	ug/L	MW-39	10/15/2024		63.6000	*	4.0000
Selenium	ug/L	MW-39	04/16/2025		71.5000	*	4.0000
Selenium	ug/L	MW-39	10/27/2025		71.5000	*	4.0000
Nickel	ug/L	MW-43	04/06/2022	ND	3.1100		6.5000
Nickel	ug/L	MW-43	08/23/2022		5.2300		6.5000
Nickel	ug/L	MW-43	03/08/2023	ND	2.9100		6.5000
Nickel	ug/L	MW-43	09/13/2023		5.9000		6.5000
Nickel	ug/L	MW-43	05/29/2024	ND	2.7700		6.5000
Nickel	ug/L	MW-43	10/15/2024		4.5000		6.5000
Nickel	ug/L	MW-43	04/16/2025		6.4000		6.5000
Nickel	ug/L	MW-43	10/27/2025		9.6000	*	6.5000

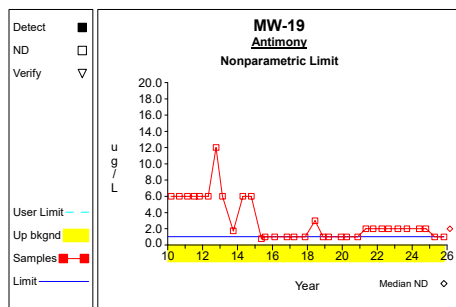
* - Significantly increased over background.

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

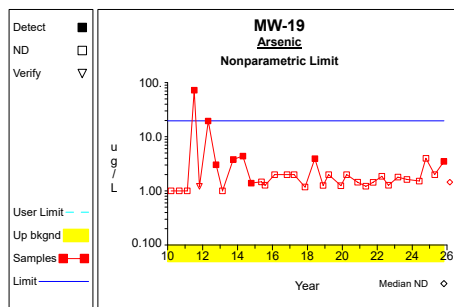
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

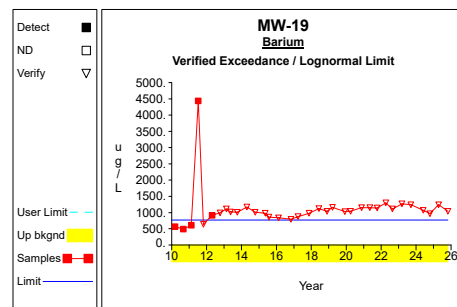
Up vs. Down Prediction Limits



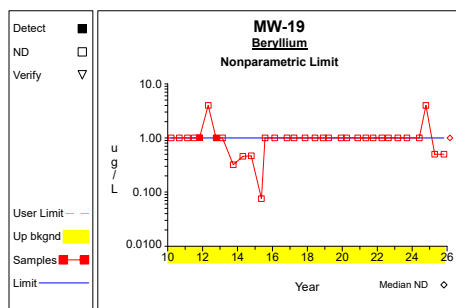
Graph 1



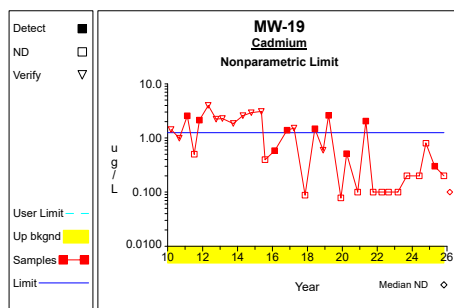
Graph 2



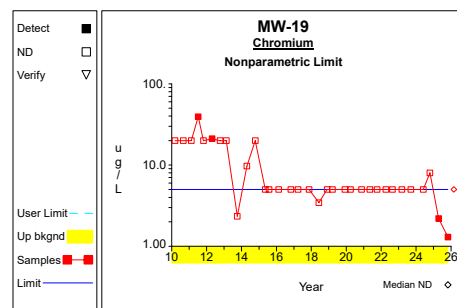
Graph 3



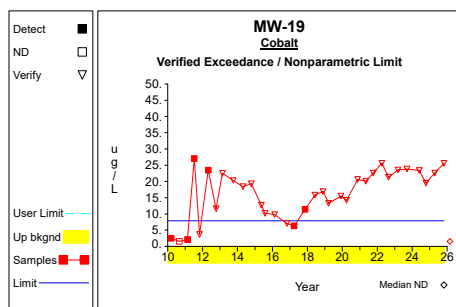
Graph 4



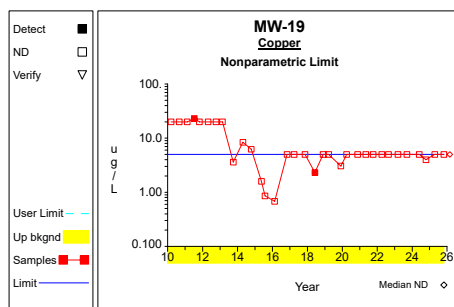
Graph 5



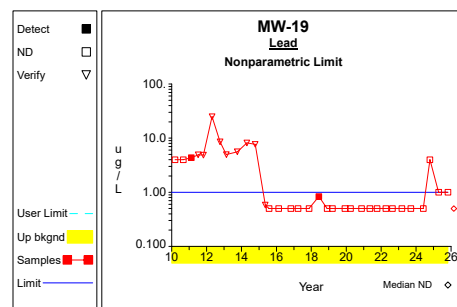
Graph 6



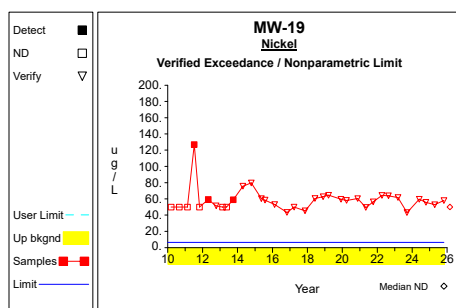
Graph 7



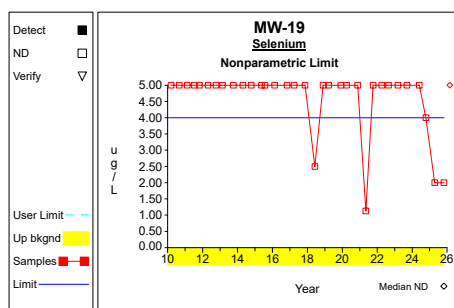
Graph 8



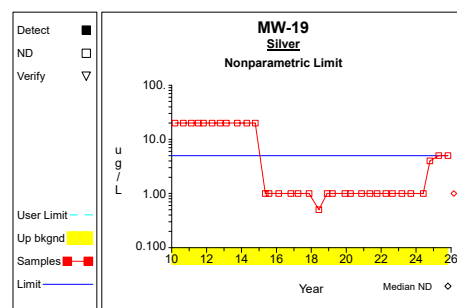
Graph 9



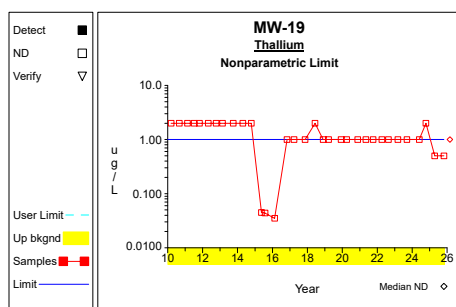
Graph 10



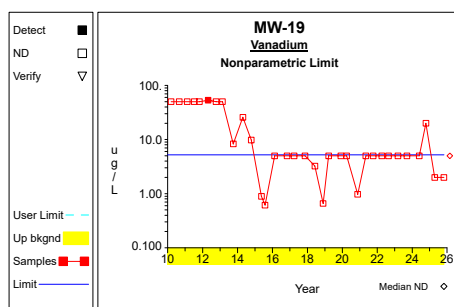
Graph 11



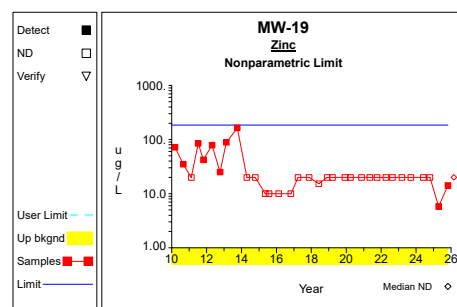
Graph 12



Graph 13

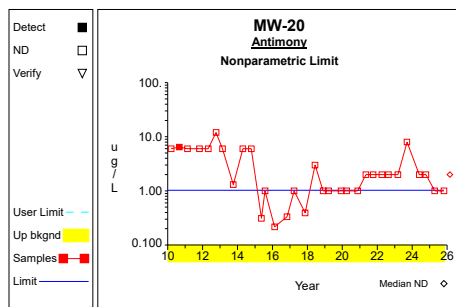


Graph 14

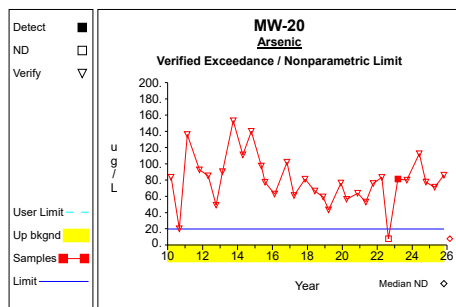


Graph 15

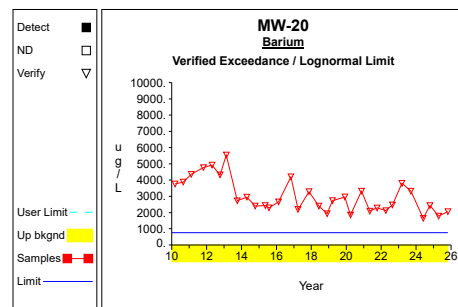
Up vs. Down Prediction Limits



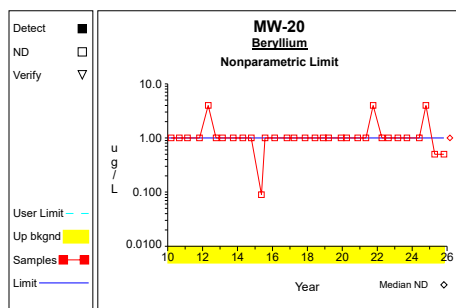
Graph 16



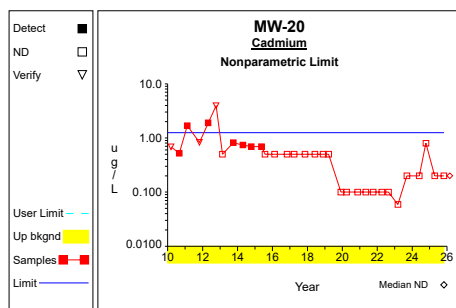
Graph 17



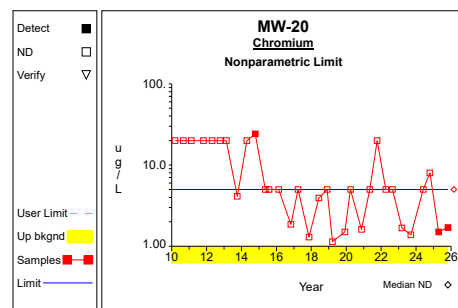
Graph 18



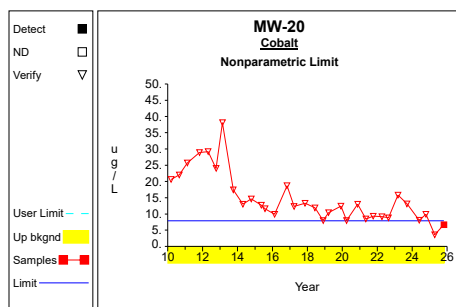
Graph 19



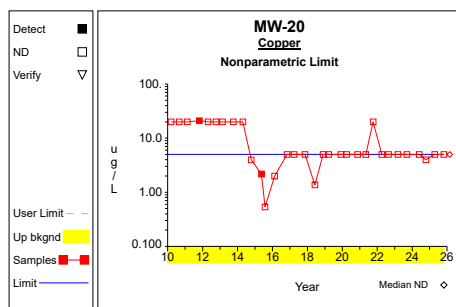
Graph 20



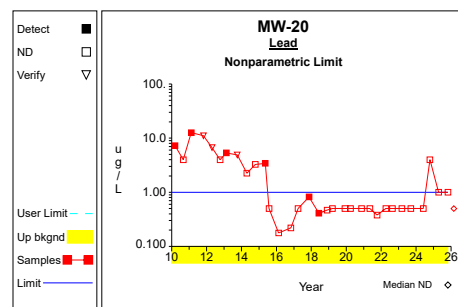
Graph 21



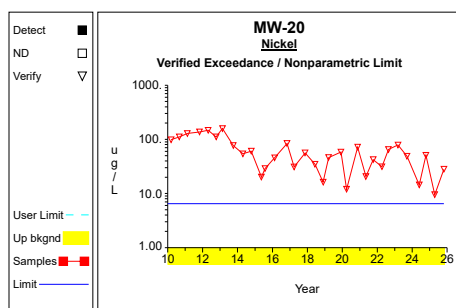
Graph 22



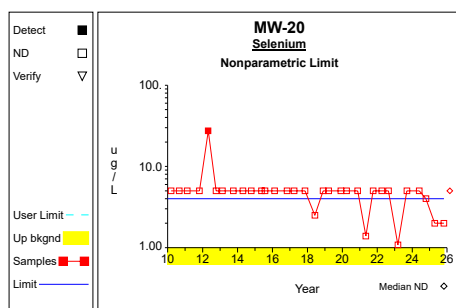
Graph 23



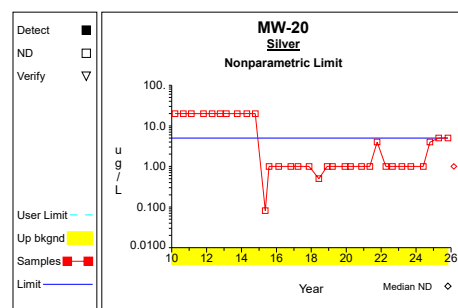
Graph 24



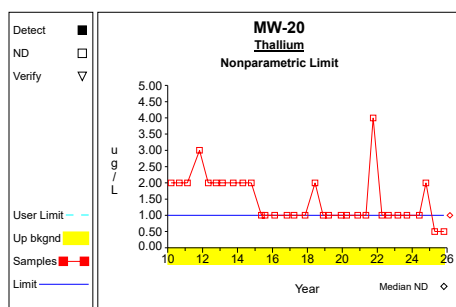
Graph 25



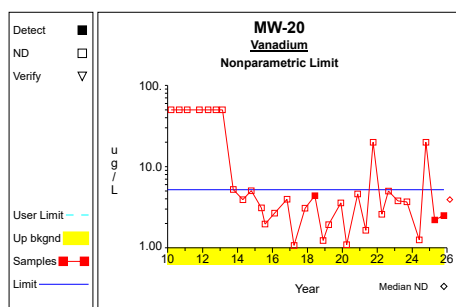
Graph 26



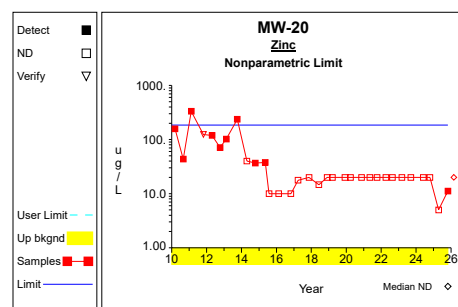
Graph 27



Graph 28

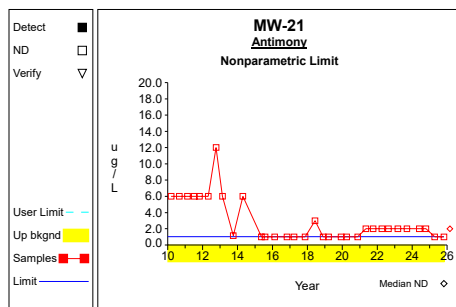


Graph 29

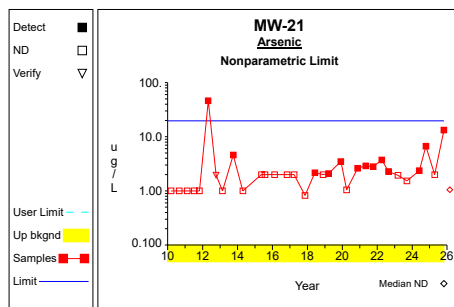


Graph 30

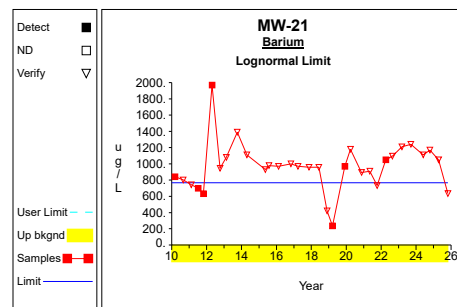
Up vs. Down Prediction Limits



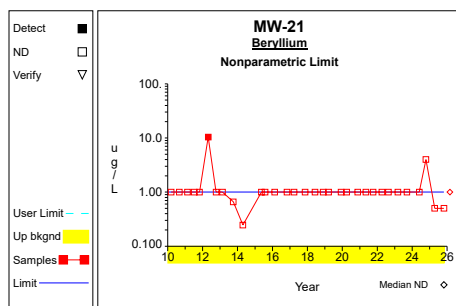
Graph 31



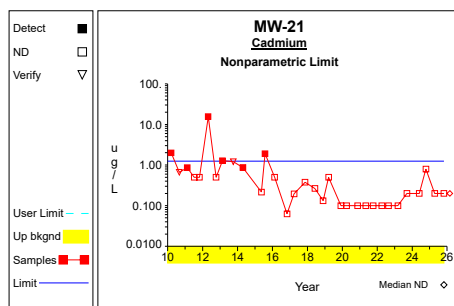
Graph 32



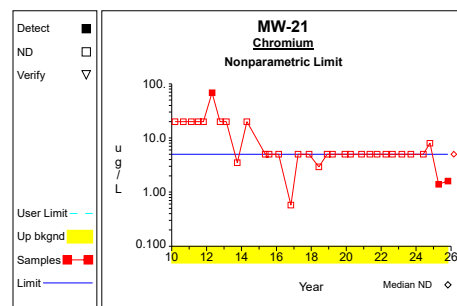
Graph 33



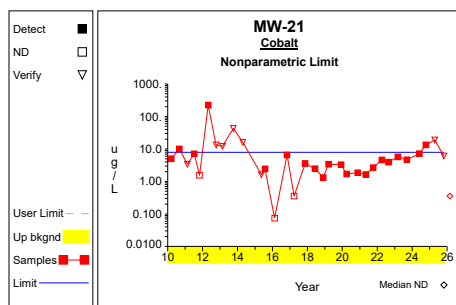
Graph 34



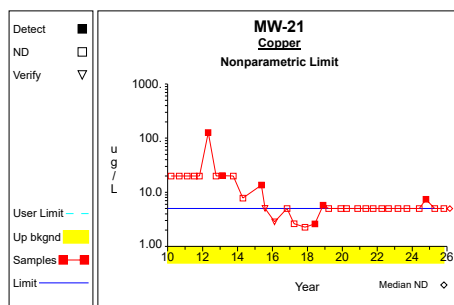
Graph 35



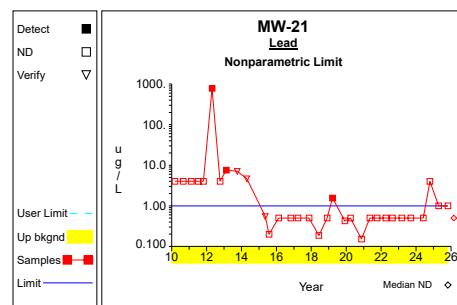
Graph 36



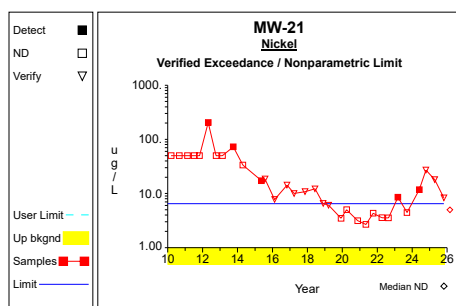
Graph 37



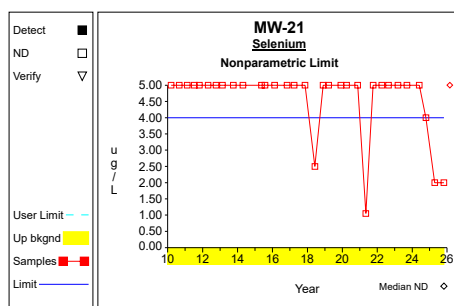
Graph 38



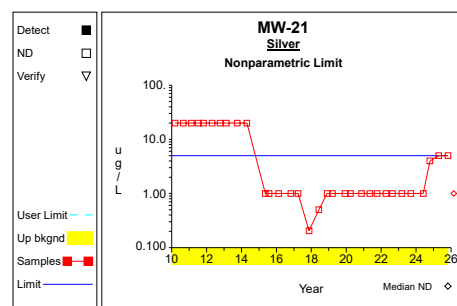
Graph 39



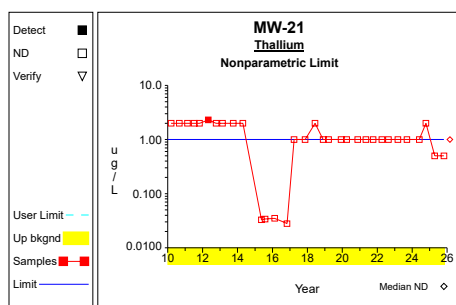
Graph 40



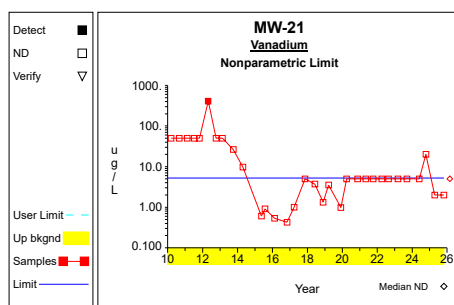
Graph 41



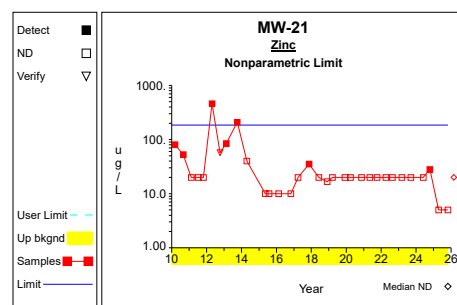
Graph 42



Graph 43

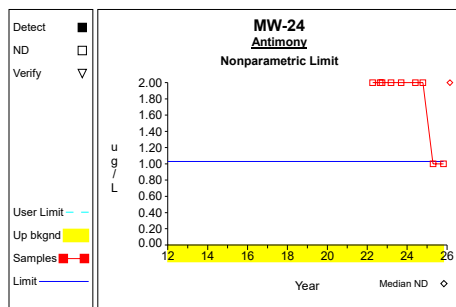


Graph 44

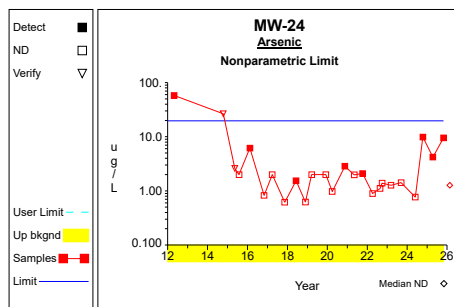


Graph 45

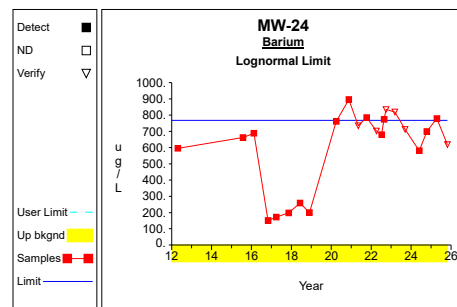
Up vs. Down Prediction Limits



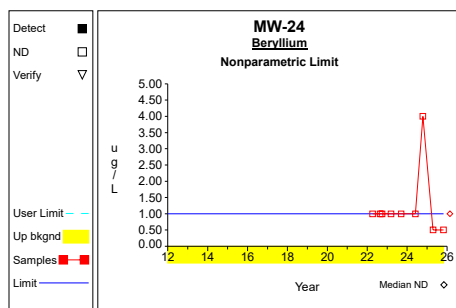
Graph 46



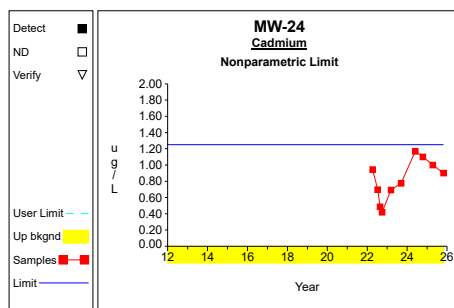
Graph 47



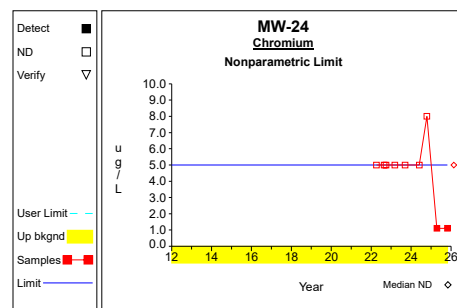
Graph 48



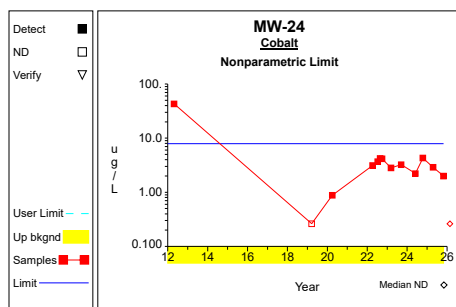
Graph 49



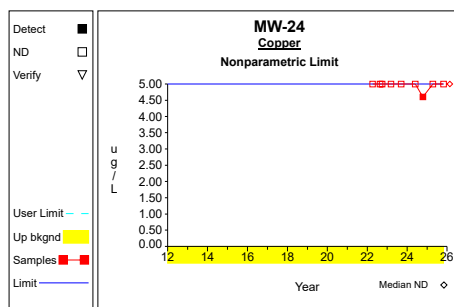
Graph 50



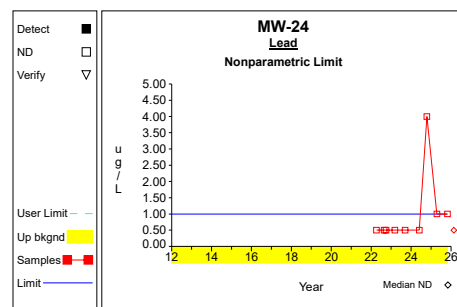
Graph 51



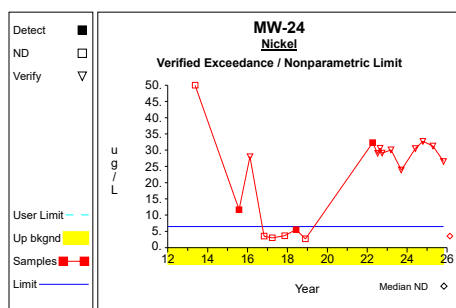
Graph 52



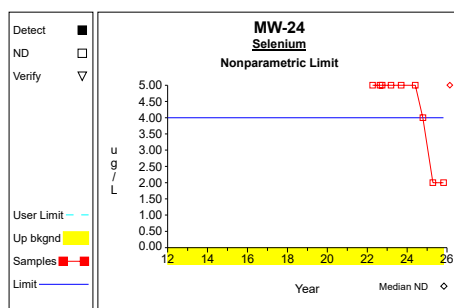
Graph 53



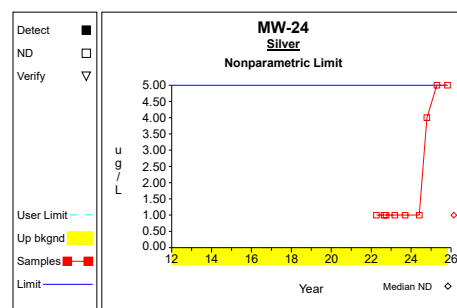
Graph 54



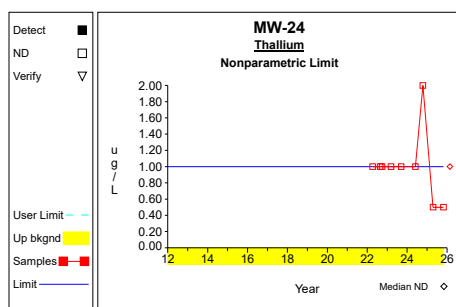
Graph 55



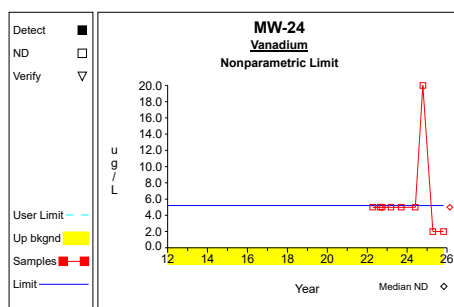
Graph 56



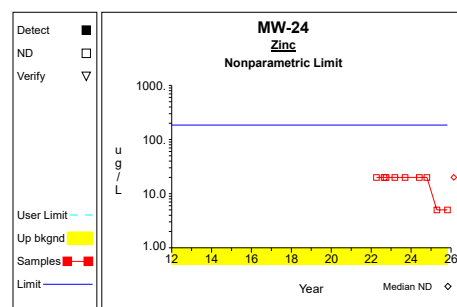
Graph 57



Graph 58

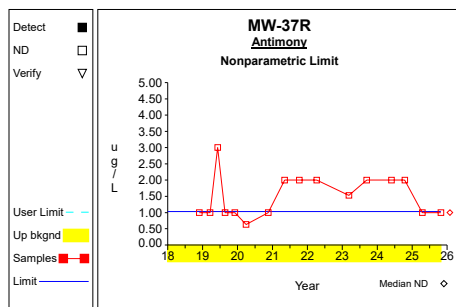


Graph 59

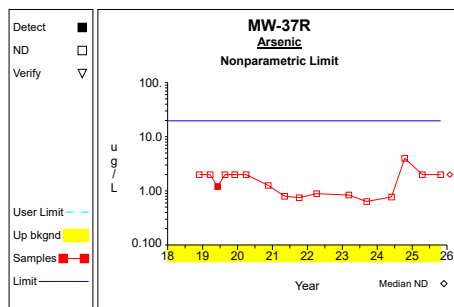


Graph 60

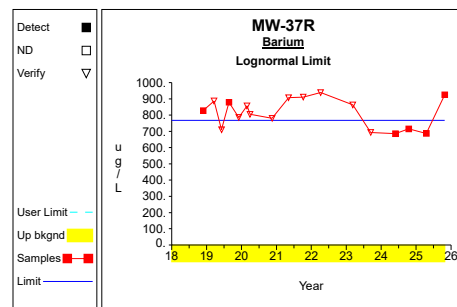
Up vs. Down Prediction Limits



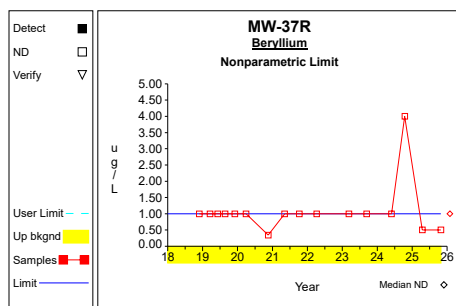
Graph 61



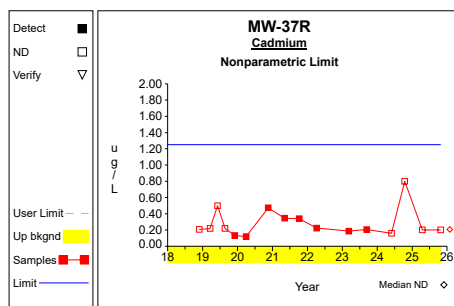
Graph 62



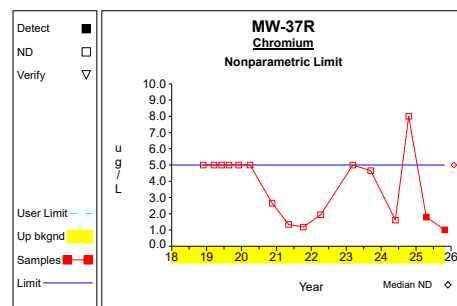
Graph 63



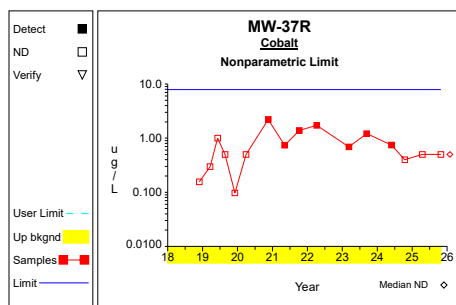
Graph 64



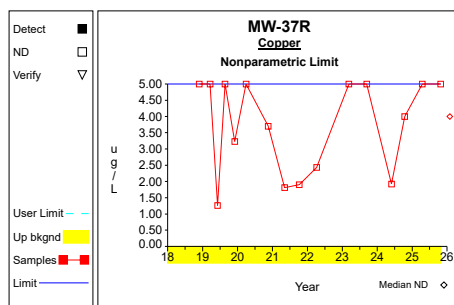
Graph 65



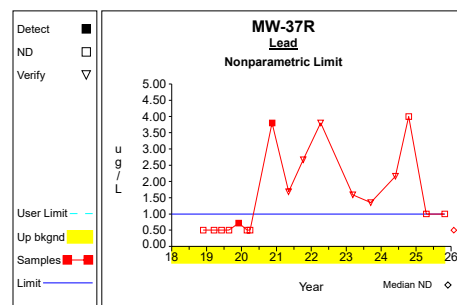
Graph 66



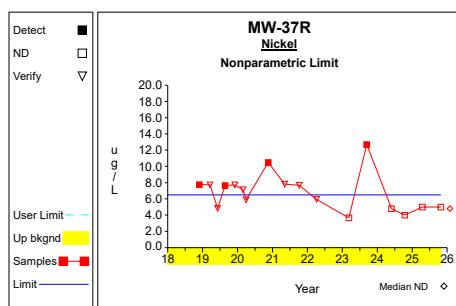
Graph 67



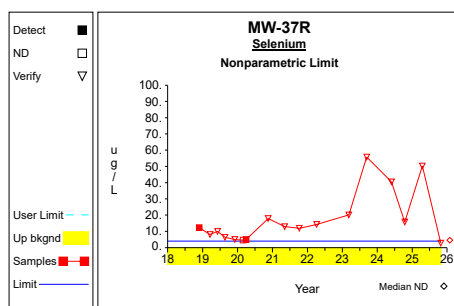
Graph 68



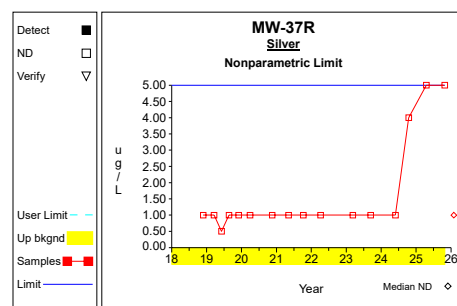
Graph 69



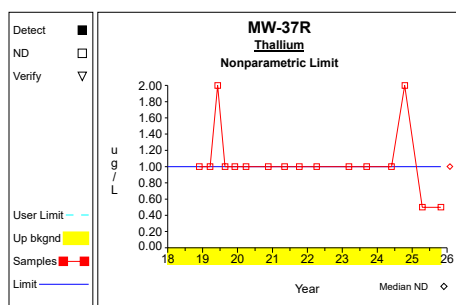
Graph 70



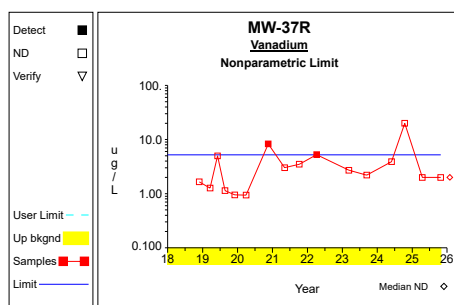
Graph 71



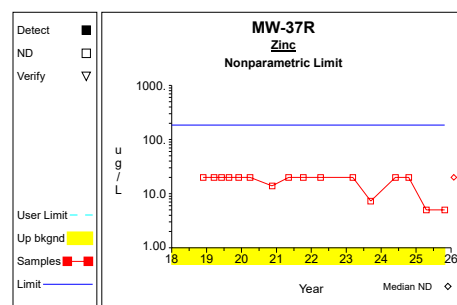
Graph 72



Graph 73

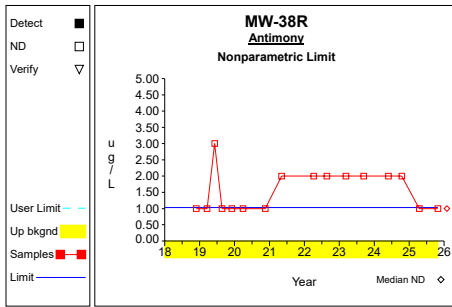


Graph 74

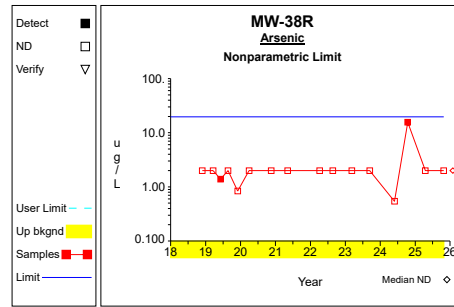


Graph 75

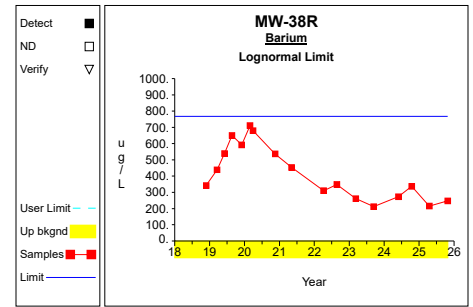
Up vs. Down Prediction Limits



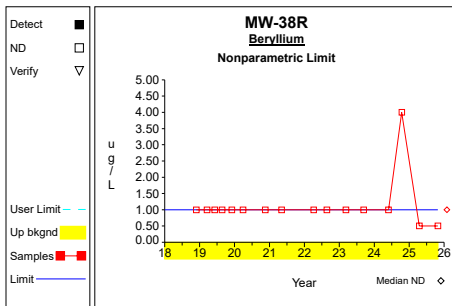
Graph 76



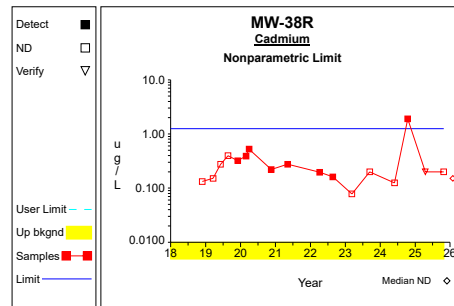
Graph 77



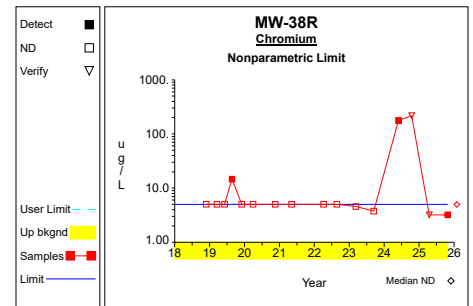
Graph 78



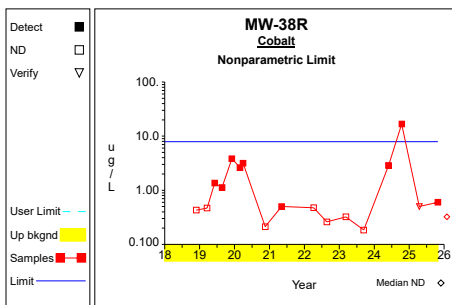
Graph 79



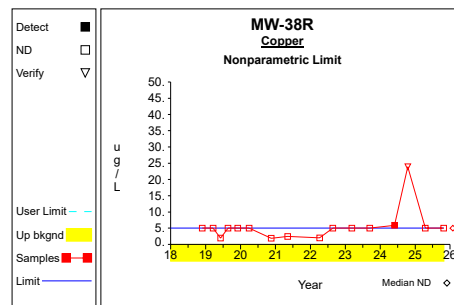
Graph 80



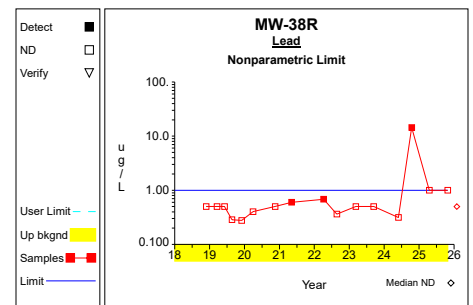
Graph 81



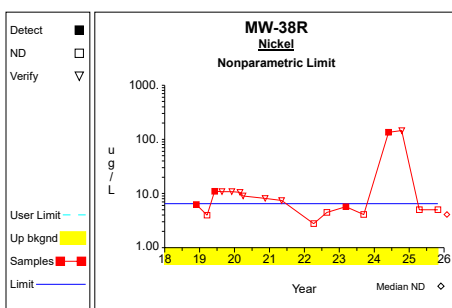
Graph 82



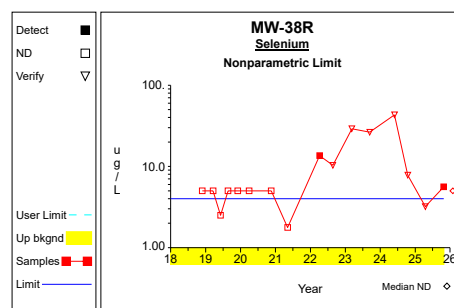
Graph 83



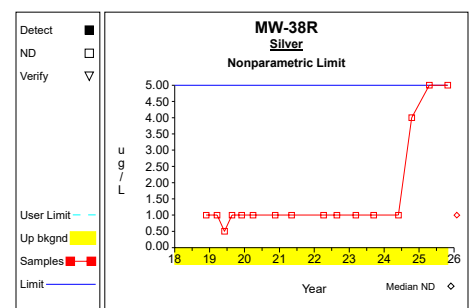
Graph 84



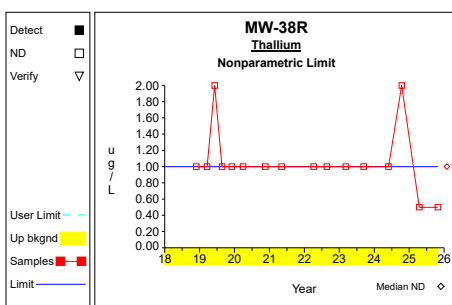
Graph 85



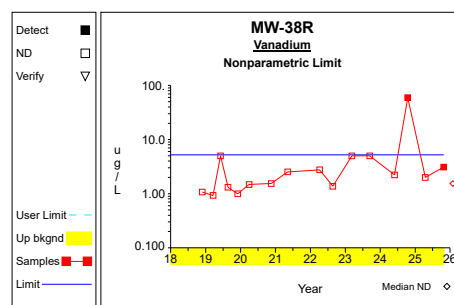
Graph 86



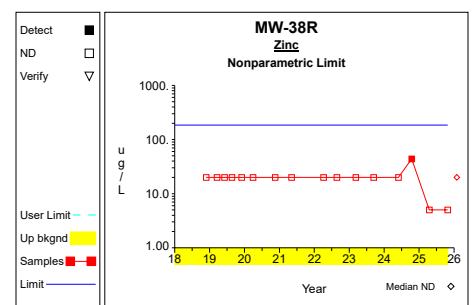
Graph 87



Graph 88

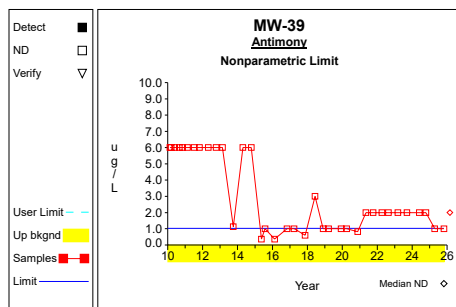


Graph 89

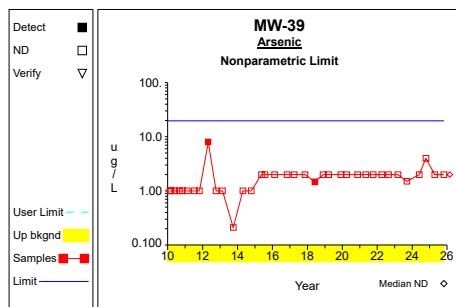


Graph 90

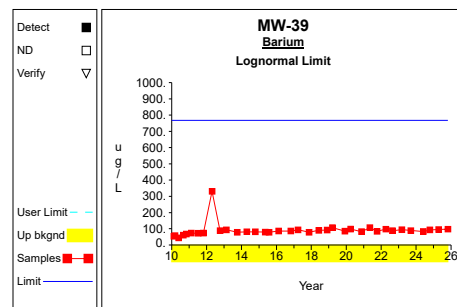
Up vs. Down Prediction Limits



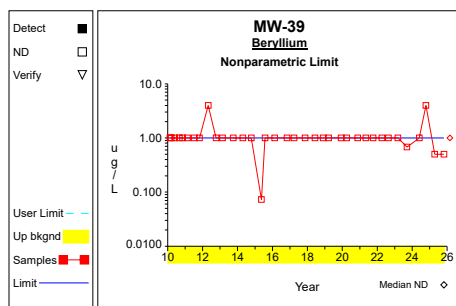
Graph 91



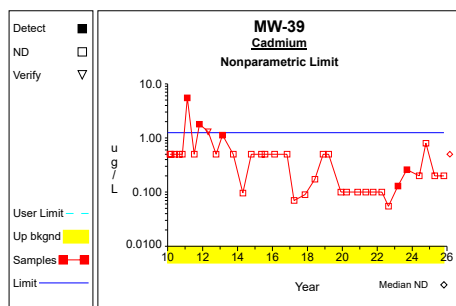
Graph 92



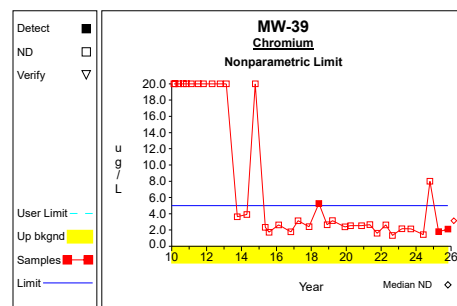
Graph 93



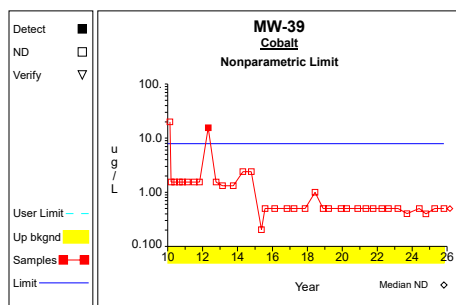
Graph 94



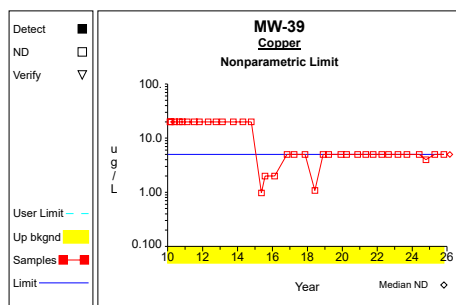
Graph 95



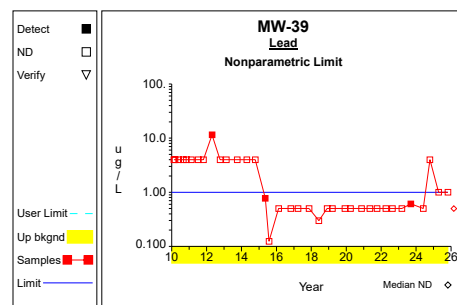
Graph 96



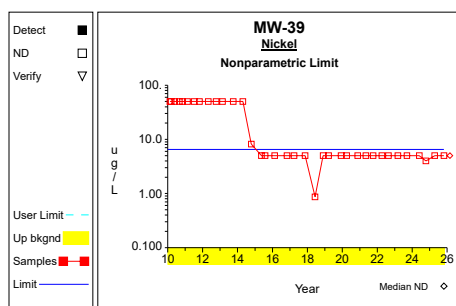
Graph 97



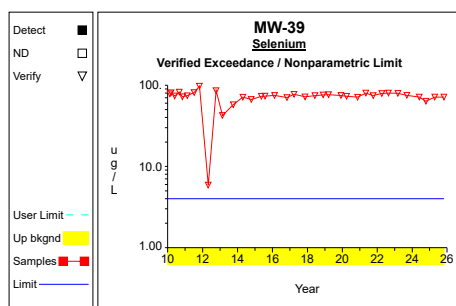
Graph 98



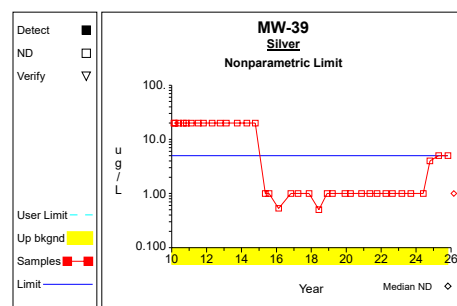
Graph 99



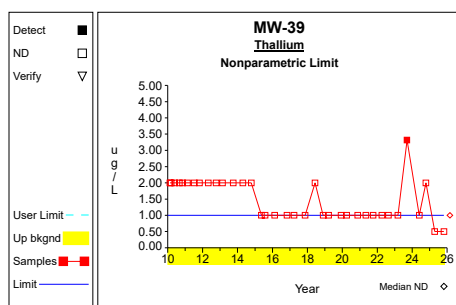
Graph 100



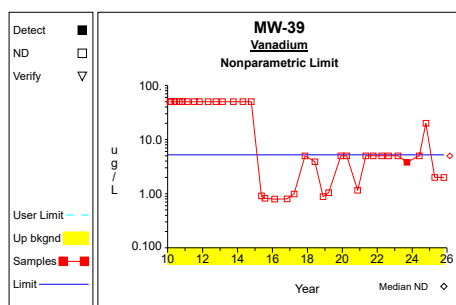
Graph 101



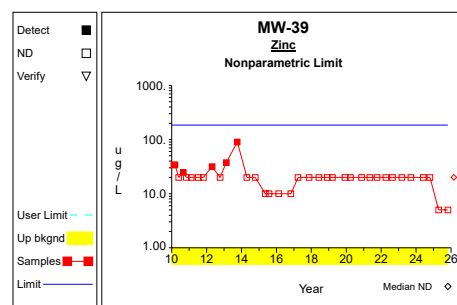
Graph 102



Graph 103

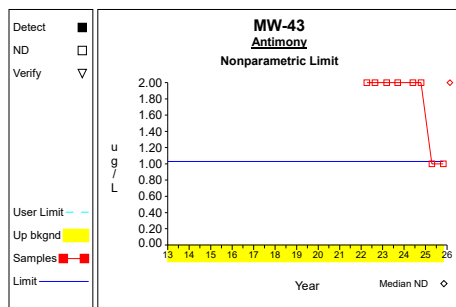


Graph 104

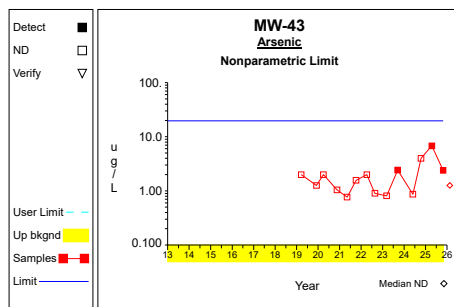


Graph 105

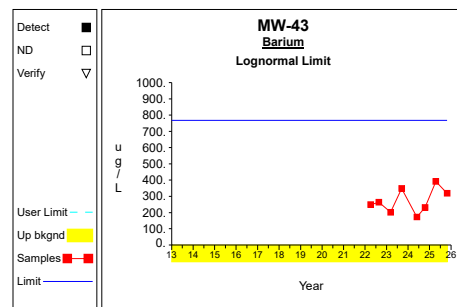
Up vs. Down Prediction Limits



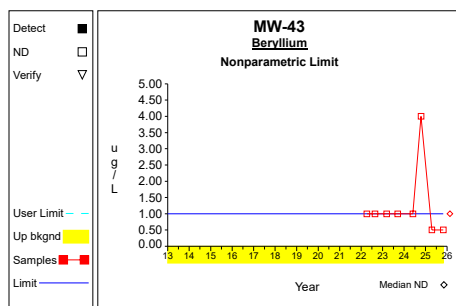
Graph 106



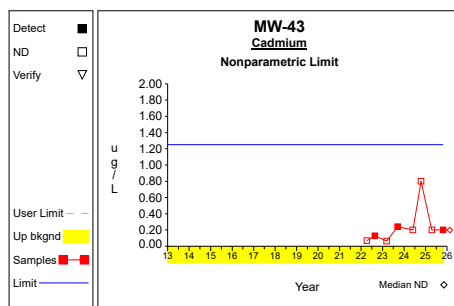
Graph 107



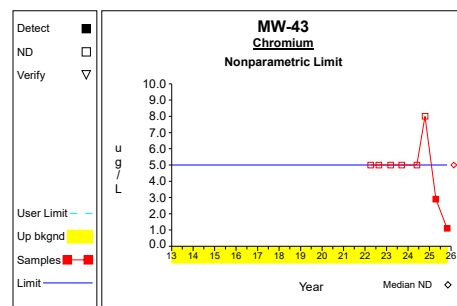
Graph 108



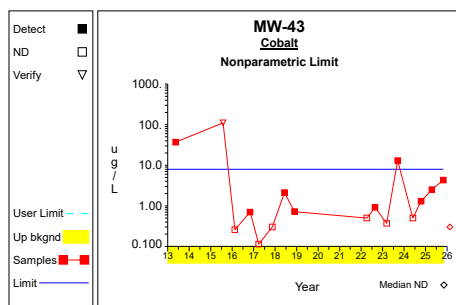
Graph 109



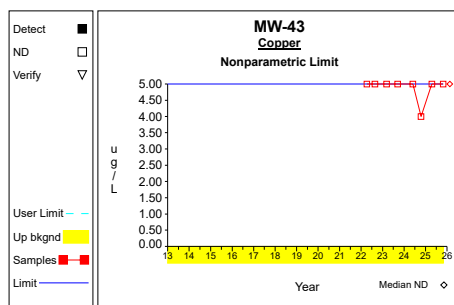
Graph 110



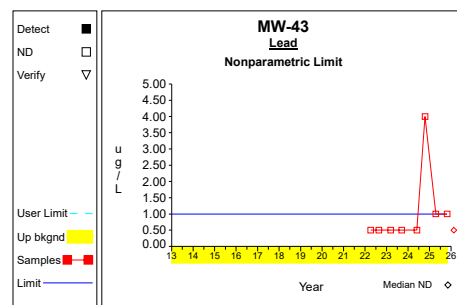
Graph 111



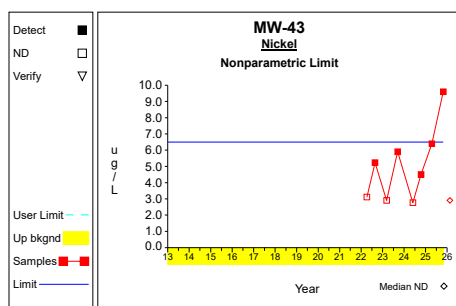
Graph 112



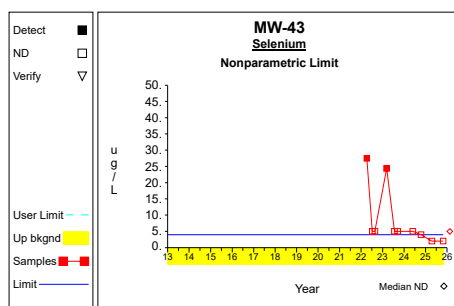
Graph 113



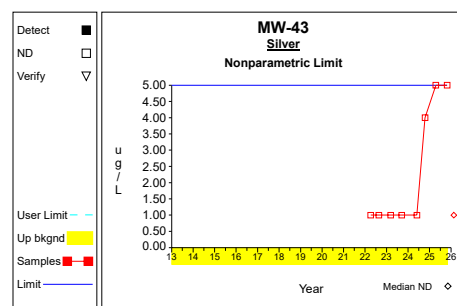
Graph 114



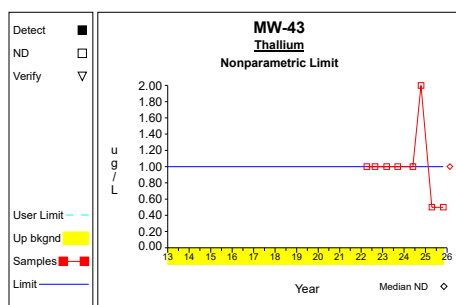
Graph 115



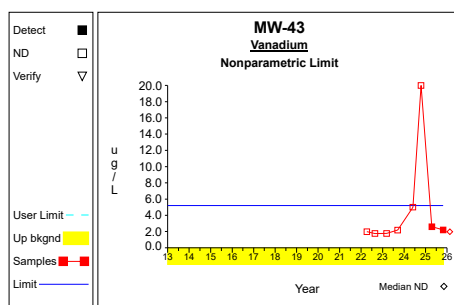
Graph 116



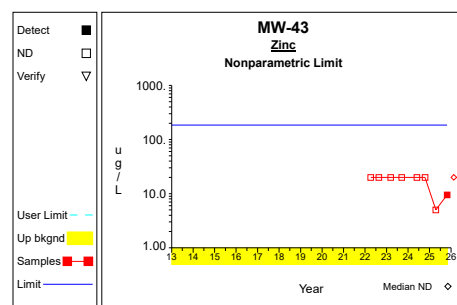
Graph 117



Graph 118

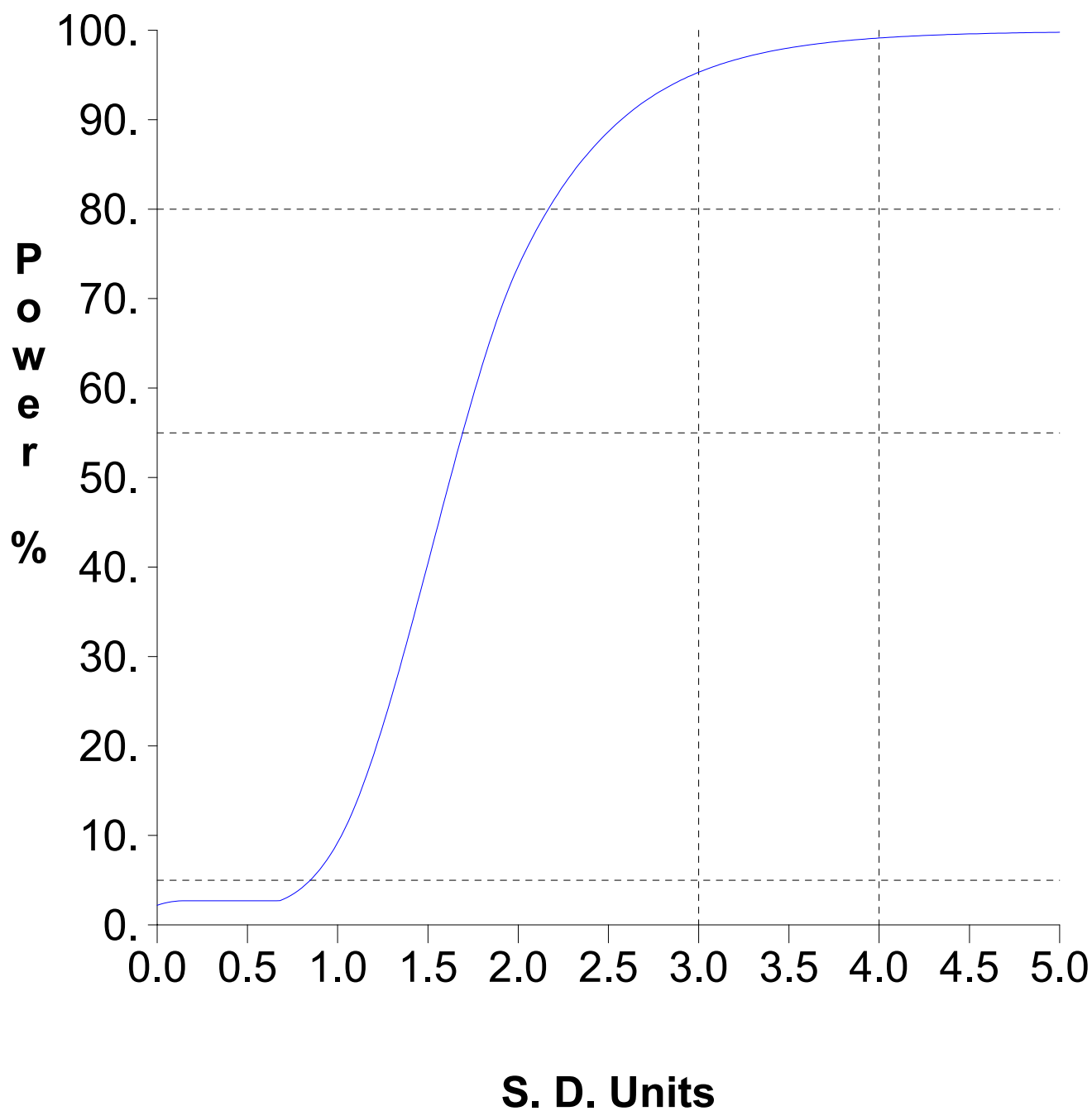


Graph 119



Graph 120

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



Attachment C

Summary Tables and Graphs for the Interwell Comparisons – Dakota

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony	ug/L	MW-22	02/11/2008	ND	6.0000		
Antimony	ug/L	MW-22	04/30/2008	ND	6.0000		
Antimony	ug/L	MW-22	07/09/2008	ND	6.0000		
Antimony	ug/L	MW-22	09/11/2008	ND	6.0000		
Antimony	ug/L	MW-22	12/10/2008	ND	6.0000		
Antimony	ug/L	MW-22	08/21/2009	ND	6.0000		
Antimony	ug/L	MW-22	03/11/2010	ND	6.0000		
Antimony	ug/L	MW-22	08/31/2010	ND	6.0000		
Antimony	ug/L	MW-22	02/16/2011	ND	6.0000		
Antimony	ug/L	MW-22	10/27/2011	ND	6.0000		
Antimony	ug/L	MW-22	04/26/2012	ND	6.0000		
Antimony	ug/L	MW-22	10/09/2012	ND	6.0000		
Antimony	ug/L	MW-22	02/20/2013	ND	6.0000		
Antimony	ug/L	MW-22	10/03/2013	ND	6.0000		
Antimony	ug/L	MW-22	04/22/2014	ND	6.0000		
Antimony	ug/L	MW-22	10/14/2014	ND	6.0000		
Antimony	ug/L	MW-22	05/12/2015	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	07/29/2015	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	03/28/2016		236.0000		*
Antimony	ug/L	MW-22	10/31/2016		2.1300		
Antimony	ug/L	MW-22	03/27/2017	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	11/13/2017		1.5400		
Antimony	ug/L	MW-22	06/06/2018		6.5100		
Antimony	ug/L	MW-22	11/26/2018	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	03/18/2019	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	12/02/2019	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	03/30/2020	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	11/17/2020	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	05/06/2021	ND	2.0000	6.0000	**
Antimony	ug/L	MW-22	10/07/2021	ND	2.0000	6.0000	**
Antimony	ug/L	MW-22	04/06/2022	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	08/23/2022		5.6500		
Antimony	ug/L	MW-22	03/08/2023	ND	2.0000	6.0000	**
Antimony	ug/L	MW-22	09/13/2023	ND	2.0000	6.0000	**
Antimony	ug/L	MW-22	05/29/2024		2.7900		
Antimony	ug/L	MW-22	10/15/2024		21.6000		*
Antimony	ug/L	MW-22	04/16/2025		5.6000		
Antimony	ug/L	MW-22	10/27/2025		6.6000		
Arsenic	ug/L	MW-22	02/11/2008	ND	1.0000		
Arsenic	ug/L	MW-22	04/30/2008	ND	1.0000		
Arsenic	ug/L	MW-22	07/09/2008	ND	1.0000		
Arsenic	ug/L	MW-22	09/11/2008	ND	1.0000		
Arsenic	ug/L	MW-22	12/10/2008	ND	1.0000		
Arsenic	ug/L	MW-22	08/21/2009	ND	1.0000		
Arsenic	ug/L	MW-22	03/11/2010	ND	1.0000		
Arsenic	ug/L	MW-22	08/31/2010	ND	1.0000		
Arsenic	ug/L	MW-22	02/16/2011	ND	1.0000		
Arsenic	ug/L	MW-22	10/27/2011	ND	1.0000		
Arsenic	ug/L	MW-22	04/26/2012	ND	4.0000		*
Arsenic	ug/L	MW-22	10/09/2012	ND	1.0000		
Arsenic	ug/L	MW-22	02/20/2013	ND	1.0000		
Arsenic	ug/L	MW-22	10/03/2013	ND	1.0000		
Arsenic	ug/L	MW-22	04/22/2014	ND	1.0000		
Arsenic	ug/L	MW-22	10/14/2014	ND	1.0000		
Arsenic	ug/L	MW-22	05/12/2015	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	07/29/2015	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	03/28/2016	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	10/31/2016	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	03/27/2017	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	11/13/2017	ND	1.0000		
Arsenic	ug/L	MW-22	06/06/2018		1.3500		
Arsenic	ug/L	MW-22	11/26/2018	ND	1.0000		
Arsenic	ug/L	MW-22	03/18/2019	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	12/02/2019	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	03/30/2020	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	11/17/2020	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	05/06/2021	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	10/07/2021	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	04/06/2022	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	08/23/2022	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	03/08/2023	ND	1.0000		
Arsenic	ug/L	MW-22	09/13/2023	ND	1.0000		
Arsenic	ug/L	MW-22	05/29/2024	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	10/15/2024	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	
Arsenic	ug/L	MW-22	04/16/2025	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	10/27/2025	ND	2.0000	1.0000	**
Barium	ug/L	MW-22	02/11/2008		248.0000		
Barium	ug/L	MW-22	04/30/2008		229.0000		
Barium	ug/L	MW-22	07/09/2008		231.0000		
Barium	ug/L	MW-22	09/11/2008		234.0000		
Barium	ug/L	MW-22	12/10/2008		242.0000		
Barium	ug/L	MW-22	08/21/2009		233.0000		
Barium	ug/L	MW-22	03/11/2010		221.0000		
Barium	ug/L	MW-22	08/31/2010		244.0000		
Barium	ug/L	MW-22	02/16/2011		252.0000		
Barium	ug/L	MW-22	10/27/2011		221.0000		
Barium	ug/L	MW-22	04/26/2012		275.0000		
Barium	ug/L	MW-22	10/09/2012		238.5000		
Barium	ug/L	MW-22	02/20/2013		247.0000		
Barium	ug/L	MW-22	10/03/2013		220.0000		
Barium	ug/L	MW-22	04/22/2014		244.0000		
Barium	ug/L	MW-22	10/14/2014		254.0000		
Barium	ug/L	MW-22	05/12/2015		244.0000		
Barium	ug/L	MW-22	07/29/2015		241.0000		
Barium	ug/L	MW-22	03/28/2016		250.0000		
Barium	ug/L	MW-22	10/31/2016		248.0000		
Barium	ug/L	MW-22	03/27/2017		273.0000		
Barium	ug/L	MW-22	11/13/2017		220.0000		
Barium	ug/L	MW-22	06/06/2018		262.0000		
Barium	ug/L	MW-22	11/26/2018		270.0000		
Barium	ug/L	MW-22	03/18/2019		266.0000		
Barium	ug/L	MW-22	12/02/2019		264.0000		
Barium	ug/L	MW-22	03/30/2020		249.0000		
Barium	ug/L	MW-22	11/17/2020		208.0000		
Barium	ug/L	MW-22	05/06/2021		304.0000		
Barium	ug/L	MW-22	10/07/2021		274.0000		
Barium	ug/L	MW-22	04/06/2022		241.0000		
Barium	ug/L	MW-22	08/23/2022		250.0000		
Barium	ug/L	MW-22	03/08/2023		251.0000		
Barium	ug/L	MW-22	09/13/2023		238.0000		
Barium	ug/L	MW-22	05/29/2024		241.0000		
Barium	ug/L	MW-22	10/15/2024		231.0000		
Barium	ug/L	MW-22	04/16/2025		283.0000		
Barium	ug/L	MW-22	10/27/2025		229.0000		
Beryllium	ug/L	MW-22	02/11/2008	ND	1.0000		*
Beryllium	ug/L	MW-22	04/30/2008	ND	0.0280		
Beryllium	ug/L	MW-22	07/09/2008	ND	1.0000		
Beryllium	ug/L	MW-22	09/11/2008	ND	1.0000		
Beryllium	ug/L	MW-22	12/10/2008	ND	1.0000		
Beryllium	ug/L	MW-22	08/21/2009	ND	1.0000		
Beryllium	ug/L	MW-22	03/11/2010	ND	1.0000		
Beryllium	ug/L	MW-22	08/31/2010	ND	1.0000		
Beryllium	ug/L	MW-22	02/16/2011	ND	1.0000		
Beryllium	ug/L	MW-22	10/27/2011	ND	1.0000		
Beryllium	ug/L	MW-22	04/26/2012	ND	4.0000		*
Beryllium	ug/L	MW-22	10/09/2012	ND	1.0000		
Beryllium	ug/L	MW-22	02/20/2013	ND	1.0000		
Beryllium	ug/L	MW-22	10/03/2013	ND	1.0000		
Beryllium	ug/L	MW-22	04/22/2014	ND	1.0000		
Beryllium	ug/L	MW-22	10/14/2014	ND	1.0000		
Beryllium	ug/L	MW-22	05/12/2015	ND	1.0000		
Beryllium	ug/L	MW-22	07/29/2015	ND	1.0000		
Beryllium	ug/L	MW-22	03/28/2016	ND	1.0000		
Beryllium	ug/L	MW-22	10/31/2016	ND	1.0000		
Beryllium	ug/L	MW-22	03/27/2017	ND	1.0000		
Beryllium	ug/L	MW-22	11/13/2017	ND	1.0000		
Beryllium	ug/L	MW-22	06/06/2018	ND	1.0000		
Beryllium	ug/L	MW-22	11/26/2018	ND	1.0000		
Beryllium	ug/L	MW-22	03/18/2019	ND	1.0000		
Beryllium	ug/L	MW-22	12/02/2019	ND	1.0000		
Beryllium	ug/L	MW-22	03/30/2020	ND	1.0000		
Beryllium	ug/L	MW-22	11/17/2020	ND	1.0000		
Beryllium	ug/L	MW-22	05/06/2021	ND	1.0000		
Beryllium	ug/L	MW-22	10/07/2021	ND	1.0000		
Beryllium	ug/L	MW-22	04/06/2022	ND	1.0000		
Beryllium	ug/L	MW-22	08/23/2022	ND	1.0000		
Beryllium	ug/L	MW-22	03/08/2023	ND	1.0000		
Beryllium	ug/L	MW-22	09/13/2023	ND	1.0000		

* - 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	
Beryllium	ug/L	MW-22	05/29/2024	ND	1.0000		*
Beryllium	ug/L	MW-22	10/15/2024	ND	4.0000		**
Beryllium	ug/L	MW-22	04/16/2025	ND	0.5000	1.0000	**
Beryllium	ug/L	MW-22	10/27/2025	ND	0.5000	1.0000	**
Cadmium	ug/L	MW-22	02/11/2008	ND	0.5000		
Cadmium	ug/L	MW-22	04/30/2008		0.1700		
Cadmium	ug/L	MW-22	07/09/2008	ND	0.5000		
Cadmium	ug/L	MW-22	09/11/2008		1.5800		
Cadmium	ug/L	MW-22	12/10/2008	ND	0.5000		
Cadmium	ug/L	MW-22	08/21/2009	ND	0.5000		
Cadmium	ug/L	MW-22	03/11/2010	ND	0.5000		
Cadmium	ug/L	MW-22	08/31/2010	ND	0.5000		
Cadmium	ug/L	MW-22	02/16/2011	ND	0.5000		
Cadmium	ug/L	MW-22	10/27/2011	ND	0.5000		
Cadmium	ug/L	MW-22	04/26/2012	ND	0.8000	0.5000	**
Cadmium	ug/L	MW-22	10/09/2012		0.5875		
Cadmium	ug/L	MW-22	02/20/2013		0.8750		
Cadmium	ug/L	MW-22	10/03/2013	ND	0.5000		
Cadmium	ug/L	MW-22	04/22/2014		0.5070		
Cadmium	ug/L	MW-22	10/14/2014	ND	1.0000	0.5000	**
Cadmium	ug/L	MW-22	05/12/2015	ND	0.5000		
Cadmium	ug/L	MW-22	07/29/2015	ND	1.0000	0.5000	**
Cadmium	ug/L	MW-22	03/28/2016	ND	1.0000	0.5000	**
Cadmium	ug/L	MW-22	10/31/2016	ND	0.5000		
Cadmium	ug/L	MW-22	03/27/2017	ND	0.5000		
Cadmium	ug/L	MW-22	11/13/2017	ND	0.5000		
Cadmium	ug/L	MW-22	06/06/2018	ND	0.5000		
Cadmium	ug/L	MW-22	11/26/2018	ND	0.5000		
Cadmium	ug/L	MW-22	03/18/2019	ND	0.5000		
Cadmium	ug/L	MW-22	12/02/2019	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	03/30/2020	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	11/17/2020		0.3070		
Cadmium	ug/L	MW-22	05/06/2021	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	10/07/2021	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	04/06/2022	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	08/23/2022	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	03/08/2023		0.1860		
Cadmium	ug/L	MW-22	09/13/2023	ND	0.2000	0.5000	**
Cadmium	ug/L	MW-22	05/29/2024	ND	0.2000	0.5000	**
Cadmium	ug/L	MW-22	10/15/2024	ND	0.8000	0.5000	**
Cadmium	ug/L	MW-22	04/16/2025		0.2000		
Cadmium	ug/L	MW-22	10/27/2025	ND	0.2000	0.5000	**
Chromium	ug/L	MW-22	02/11/2008	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	04/30/2008	ND	1.7300	5.0000	**
Chromium	ug/L	MW-22	07/09/2008	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	09/11/2008	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	12/10/2008	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	08/21/2009	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	03/11/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	08/31/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	02/16/2011	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	10/27/2011	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	04/26/2012	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	10/09/2012	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	02/20/2013	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	10/03/2013	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	04/22/2014	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	10/14/2014	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	05/12/2015	ND	5.0000		
Chromium	ug/L	MW-22	07/29/2015	ND	5.0000		
Chromium	ug/L	MW-22	03/28/2016	ND	1.0000	5.0000	**
Chromium	ug/L	MW-22	10/31/2016	ND	5.0000		
Chromium	ug/L	MW-22	03/27/2017	ND	5.0000		
Chromium	ug/L	MW-22	11/13/2017	ND	5.0000		
Chromium	ug/L	MW-22	06/06/2018	ND	4.0000	5.0000	**
Chromium	ug/L	MW-22	11/26/2018	ND	5.0000		
Chromium	ug/L	MW-22	03/18/2019	ND	5.0000		
Chromium	ug/L	MW-22	12/02/2019	ND	5.0000		
Chromium	ug/L	MW-22	03/30/2020	ND	5.0000		
Chromium	ug/L	MW-22	11/17/2020	ND	5.0000		
Chromium	ug/L	MW-22	05/06/2021	ND	5.0000		
Chromium	ug/L	MW-22	10/07/2021	ND	5.0000		
Chromium	ug/L	MW-22	04/06/2022	ND	5.0000		
Chromium	ug/L	MW-22	08/23/2022	ND	5.0000		

* - 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	
Chromium	ug/L	MW-22	03/08/2023	ND	5.0000		
Chromium	ug/L	MW-22	09/13/2023	ND	5.0000		
Chromium	ug/L	MW-22	05/29/2024	ND	5.0000		
Chromium	ug/L	MW-22	10/15/2024	ND	8.0000	5.0000	**
Chromium	ug/L	MW-22	04/16/2025		1.7000		
Chromium	ug/L	MW-22	10/27/2025	ND	1.0000	5.0000	**
Cobalt	ug/L	MW-22	02/11/2008	ND	20.0000	0.5000	**
Cobalt	ug/L	MW-22	04/30/2008	ND	1.4000	0.5000	**
Cobalt	ug/L	MW-22	07/09/2008	ND	20.0000	0.5000	**
Cobalt	ug/L	MW-22	09/11/2008	ND	20.0000	0.5000	**
Cobalt	ug/L	MW-22	12/10/2008	ND	20.0000	0.5000	**
Cobalt	ug/L	MW-22	08/21/2009	ND	20.0000	0.5000	**
Cobalt	ug/L	MW-22	03/11/2010	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-22	08/31/2010	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-22	02/16/2011	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-22	10/27/2011		1.7300		
Cobalt	ug/L	MW-22	04/26/2012	ND	1.0000	0.5000	**
Cobalt	ug/L	MW-22	10/09/2012	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-22	02/20/2013	ND	1.3200	0.5000	**
Cobalt	ug/L	MW-22	10/03/2013	ND	1.3200	0.5000	**
Cobalt	ug/L	MW-22	04/22/2014	ND	2.4100	0.5000	**
Cobalt	ug/L	MW-22	10/14/2014	ND	2.4100	0.5000	**
Cobalt	ug/L	MW-22	05/12/2015	ND	1.0000	0.5000	**
Cobalt	ug/L	MW-22	07/29/2015	ND	1.0000	0.5000	**
Cobalt	ug/L	MW-22	03/28/2016	ND	1.0000	0.5000	**
Cobalt	ug/L	MW-22	10/31/2016	ND	0.5000		
Cobalt	ug/L	MW-22	03/27/2017	ND	0.5000		
Cobalt	ug/L	MW-22	11/13/2017	ND	0.5000		
Cobalt	ug/L	MW-22	06/06/2018	ND	1.0000	0.5000	**
Cobalt	ug/L	MW-22	11/26/2018	ND	0.5000		
Cobalt	ug/L	MW-22	03/18/2019	ND	0.5000		
Cobalt	ug/L	MW-22	12/02/2019	ND	0.5000		
Cobalt	ug/L	MW-22	03/30/2020	ND	0.5000		
Cobalt	ug/L	MW-22	11/17/2020		1.3800		
Cobalt	ug/L	MW-22	05/06/2021	ND	0.5000		
Cobalt	ug/L	MW-22	10/07/2021	ND	0.5000		
Cobalt	ug/L	MW-22	04/06/2022	ND	0.5000		
Cobalt	ug/L	MW-22	08/23/2022	ND	0.5000		
Cobalt	ug/L	MW-22	03/08/2023	ND	0.1970	0.5000	**
Cobalt	ug/L	MW-22	09/13/2023	ND	0.5000		
Cobalt	ug/L	MW-22	05/29/2024	ND	0.5000		
Cobalt	ug/L	MW-22	10/15/2024	ND	0.4000	0.5000	**
Cobalt	ug/L	MW-22	04/16/2025	ND	0.5000		
Cobalt	ug/L	MW-22	10/27/2025	ND	0.5000		
Copper	ug/L	MW-22	02/11/2008	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	04/30/2008	ND	13.1000	5.0000	**
Copper	ug/L	MW-22	07/09/2008	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	09/11/2008	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	12/10/2008	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	08/21/2009	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	03/11/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	08/31/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	02/16/2011	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	10/27/2011	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	04/26/2012	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	10/09/2012	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	02/20/2013	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	10/03/2013	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	04/22/2014	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	10/14/2014	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	05/12/2015	ND	2.0000	5.0000	**
Copper	ug/L	MW-22	07/29/2015		16.4000		
Copper	ug/L	MW-22	03/28/2016	ND	5.0000		
Copper	ug/L	MW-22	10/31/2016	ND	5.0000		
Copper	ug/L	MW-22	03/27/2017	ND	5.0000		
Copper	ug/L	MW-22	11/13/2017	ND	5.0000		
Copper	ug/L	MW-22	06/06/2018	ND	2.0000	5.0000	**
Copper	ug/L	MW-22	11/26/2018	ND	5.0000		
Copper	ug/L	MW-22	03/18/2019	ND	5.0000		
Copper	ug/L	MW-22	12/02/2019	ND	5.0000		
Copper	ug/L	MW-22	03/30/2020	ND	5.0000		
Copper	ug/L	MW-22	11/17/2020	ND	5.0000		
Copper	ug/L	MW-22	05/06/2021	ND	5.0000		
Copper	ug/L	MW-22	10/07/2021	ND	5.0000		

* - 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	ug/L	MW-22	04/06/2022	ND	5.0000		
Copper	ug/L	MW-22	08/23/2022	ND	5.0000		
Copper	ug/L	MW-22	03/08/2023	ND	5.0000		
Copper	ug/L	MW-22	09/13/2023	ND	5.0000		
Copper	ug/L	MW-22	05/29/2024	ND	5.0000		
Copper	ug/L	MW-22	10/15/2024	ND	4.0000	5.0000	**
Copper	ug/L	MW-22	04/16/2025	ND	5.0000		
Copper	ug/L	MW-22	10/27/2025	ND	5.0000		
Lead	ug/L	MW-22	02/11/2008	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	04/30/2008	ND	0.3700	1.0000	**
Lead	ug/L	MW-22	07/09/2008	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	09/11/2008	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	12/10/2008	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	08/21/2009	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	03/11/2010	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	08/31/2010	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	02/16/2011	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	10/27/2011	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	04/26/2012	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	10/09/2012	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	02/20/2013	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	10/03/2013	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	04/22/2014	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	10/14/2014	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	05/12/2015	ND	1.0000		
Lead	ug/L	MW-22	07/29/2015	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	03/28/2016		0.7650		
Lead	ug/L	MW-22	10/31/2016	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	03/27/2017	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	11/13/2017	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	06/06/2018	ND	1.0000		
Lead	ug/L	MW-22	11/26/2018	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	03/18/2019	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	12/02/2019	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	03/30/2020	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	11/17/2020	ND	1.0000		
Lead	ug/L	MW-22	05/06/2021	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	10/07/2021	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	04/06/2022	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	08/23/2022		0.5280		
Lead	ug/L	MW-22	03/08/2023	ND	0.3690	1.0000	**
Lead	ug/L	MW-22	09/13/2023	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	05/29/2024	ND	0.3270	1.0000	**
Lead	ug/L	MW-22	10/15/2024	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	04/16/2025	ND	1.0000		
Lead	ug/L	MW-22	10/27/2025	ND	1.0000		
Nickel	ug/L	MW-22	02/11/2008	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	04/30/2008	ND	4.6000	5.0000	**
Nickel	ug/L	MW-22	07/09/2008	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	09/11/2008	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	12/10/2008	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	08/21/2009	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	03/11/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	08/31/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	02/16/2011	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	10/27/2011	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	04/26/2012	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	10/09/2012	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	02/20/2013	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	10/03/2013	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	04/22/2014	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	10/14/2014	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	05/12/2015	ND	5.0000		
Nickel	ug/L	MW-22	07/29/2015	ND	5.0000		
Nickel	ug/L	MW-22	03/28/2016	ND	5.0000		
Nickel	ug/L	MW-22	10/31/2016	ND	5.0000		
Nickel	ug/L	MW-22	03/27/2017	ND	5.0000		
Nickel	ug/L	MW-22	11/13/2017	ND	5.0000		
Nickel	ug/L	MW-22	06/06/2018	ND	1.0000	5.0000	**
Nickel	ug/L	MW-22	11/26/2018	ND	5.0000		
Nickel	ug/L	MW-22	03/18/2019	ND	5.0000		
Nickel	ug/L	MW-22	12/02/2019	ND	5.0000		
Nickel	ug/L	MW-22	03/30/2020	ND	5.0000		
Nickel	ug/L	MW-22	11/17/2020	ND	5.0000		

* - 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	
Nickel	ug/L	MW-22	05/06/2021	ND	5.0000		
Nickel	ug/L	MW-22	10/07/2021	ND	5.0000		
Nickel	ug/L	MW-22	04/06/2022	ND	5.0000		
Nickel	ug/L	MW-22	08/23/2022	ND	5.0000		
Nickel	ug/L	MW-22	03/08/2023	ND	5.0000		
Nickel	ug/L	MW-22	09/13/2023		10.7500		
Nickel	ug/L	MW-22	05/29/2024	ND	5.0000		
Nickel	ug/L	MW-22	10/15/2024	ND	4.0000	5.0000	**
Nickel	ug/L	MW-22	04/16/2025	ND	5.0000		
Nickel	ug/L	MW-22	10/27/2025	ND	5.0000		
Selenium	ug/L	MW-22	02/11/2008	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	04/30/2008	ND	1.4400	3.2450	**
Selenium	ug/L	MW-22	07/09/2008	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	09/11/2008	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	12/10/2008	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	08/21/2009	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	03/11/2010	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	08/31/2010	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	02/16/2011	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	10/27/2011	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	04/26/2012	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	10/09/2012	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	02/20/2013	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	10/03/2013	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	04/22/2014	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	10/14/2014	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	05/12/2015	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	07/29/2015	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	03/28/2016	ND	2.0000	3.2450	**
Selenium	ug/L	MW-22	10/31/2016	ND	1.0000	3.2450	**
Selenium	ug/L	MW-22	03/27/2017	ND	2.0000	3.2450	**
Selenium	ug/L	MW-22	11/13/2017	ND	2.0000	3.2450	**
Selenium	ug/L	MW-22	06/06/2018	ND	2.5000	3.2450	**
Selenium	ug/L	MW-22	11/26/2018	ND	2.0000	3.2450	**
Selenium	ug/L	MW-22	03/18/2019	ND	2.0000	3.2450	**
Selenium	ug/L	MW-22	12/02/2019	ND	2.0000	3.2450	**
Selenium	ug/L	MW-22	03/30/2020	ND	2.0000	3.2450	**
Selenium	ug/L	MW-22	11/17/2020	ND	3.0000	3.2450	**
Selenium	ug/L	MW-22	05/06/2021	ND	1.0200	3.2450	**
Selenium	ug/L	MW-22	10/07/2021	ND	1.5200	3.2450	**
Selenium	ug/L	MW-22	04/06/2022	ND	1.6900	3.2450	**
Selenium	ug/L	MW-22	08/23/2022	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	03/08/2023	ND	2.0500	3.2450	**
Selenium	ug/L	MW-22	09/13/2023	ND	3.2450		
Selenium	ug/L	MW-22	05/29/2024	ND	5.0000	3.2450	**
Selenium	ug/L	MW-22	10/15/2024	ND	4.0000	3.2450	**
Selenium	ug/L	MW-22	04/16/2025	ND	2.0000	3.2450	**
Selenium	ug/L	MW-22	10/27/2025	ND	2.0000	3.2450	**
Silver	ug/L	MW-22	02/11/2008	ND	20.0000	2.6100	**
Silver	ug/L	MW-22	04/30/2008	ND	2.6100		
Silver	ug/L	MW-22	07/09/2008	ND	20.0000	2.6100	**
Silver	ug/L	MW-22	09/11/2008	ND	20.0000	2.6100	**
Silver	ug/L	MW-22	12/10/2008	ND	20.0000	2.6100	**
Silver	ug/L	MW-22	08/21/2009	ND	20.0000	2.6100	**
Silver	ug/L	MW-22	03/11/2010	ND	20.0000	2.6100	**
Silver	ug/L	MW-22	08/31/2010	ND	20.0000	2.6100	**
Silver	ug/L	MW-22	02/16/2011	ND	20.0000	2.6100	**
Silver	ug/L	MW-22	10/27/2011	ND	20.0000	2.6100	**
Silver	ug/L	MW-22	04/26/2012	ND	20.0000	2.6100	**
Silver	ug/L	MW-22	10/09/2012	ND	20.0000	2.6100	**
Silver	ug/L	MW-22	02/20/2013	ND	20.0000	2.6100	**
Silver	ug/L	MW-22	10/03/2013	ND	20.0000	2.6100	**
Silver	ug/L	MW-22	04/22/2014	ND	20.0000	2.6100	**
Silver	ug/L	MW-22	10/14/2014	ND	20.0000	2.6100	**
Silver	ug/L	MW-22	05/12/2015	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	07/29/2015	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	03/28/2016	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	10/31/2016	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	03/27/2017	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	11/13/2017	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	06/06/2018	ND	0.5000	2.6100	**
Silver	ug/L	MW-22	11/26/2018	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	03/18/2019	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	12/02/2019	ND	1.0000	2.6100	**

* - 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	ug/L	MW-22	03/30/2020	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	11/17/2020	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	05/06/2021	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	10/07/2021	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	04/06/2022	ND	0.6510	2.6100	**
Silver	ug/L	MW-22	08/23/2022	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	03/08/2023	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	09/13/2023	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	05/29/2024	ND	1.0000	2.6100	**
Silver	ug/L	MW-22	10/15/2024	ND	4.0000	2.6100	**
Silver	ug/L	MW-22	04/16/2025	ND	5.0000	2.6100	**
Silver	ug/L	MW-22	10/27/2025	ND	5.0000	2.6100	**
Thallium	ug/L	MW-22	02/11/2008	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	04/30/2008	ND	0.7000	1.0000	**
Thallium	ug/L	MW-22	07/09/2008	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	09/11/2008	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	12/10/2008	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	08/21/2009	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	03/11/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	08/31/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	02/16/2011	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	10/27/2011	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	04/26/2012	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	10/09/2012	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	02/20/2013	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	10/03/2013	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	04/22/2014	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	10/14/2014	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	05/12/2015	ND	1.0000		
Thallium	ug/L	MW-22	07/29/2015	ND	1.0000		
Thallium	ug/L	MW-22	03/28/2016	ND	1.0000		
Thallium	ug/L	MW-22	10/31/2016	ND	1.0000		
Thallium	ug/L	MW-22	03/27/2017	ND	1.0000		
Thallium	ug/L	MW-22	11/13/2017	ND	1.0000		
Thallium	ug/L	MW-22	06/06/2018	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	11/26/2018	ND	1.0000		
Thallium	ug/L	MW-22	03/18/2019	ND	1.0000		
Thallium	ug/L	MW-22	12/02/2019	ND	1.0000		
Thallium	ug/L	MW-22	03/30/2020	ND	1.0000		
Thallium	ug/L	MW-22	11/17/2020	ND	1.0000		
Thallium	ug/L	MW-22	05/06/2021	ND	1.0000		
Thallium	ug/L	MW-22	10/07/2021	ND	1.0000		
Thallium	ug/L	MW-22	04/06/2022	ND	1.0000		
Thallium	ug/L	MW-22	08/23/2022	ND	1.0000		
Thallium	ug/L	MW-22	03/08/2023	ND	0.7460	1.0000	**
Thallium	ug/L	MW-22	09/13/2023	ND	1.0000		
Thallium	ug/L	MW-22	05/29/2024	ND	1.0000		
Thallium	ug/L	MW-22	10/15/2024	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	04/16/2025	ND	0.5000	1.0000	**
Thallium	ug/L	MW-22	10/27/2025	ND	0.5000	1.0000	**
Vanadium	ug/L	MW-22	02/11/2008	ND	50.0000	2.0000	**
Vanadium	ug/L	MW-22	04/30/2008	ND	1.6000	2.0000	**
Vanadium	ug/L	MW-22	07/09/2008	ND	50.0000	2.0000	**
Vanadium	ug/L	MW-22	09/11/2008	ND	50.0000	2.0000	**
Vanadium	ug/L	MW-22	12/10/2008	ND	50.0000	2.0000	**
Vanadium	ug/L	MW-22	08/21/2009	ND	50.0000	2.0000	**
Vanadium	ug/L	MW-22	03/11/2010	ND	50.0000	2.0000	**
Vanadium	ug/L	MW-22	08/31/2010	ND	50.0000	2.0000	**
Vanadium	ug/L	MW-22	02/16/2011	ND	50.0000	2.0000	**
Vanadium	ug/L	MW-22	10/27/2011	ND	50.0000	2.0000	**
Vanadium	ug/L	MW-22	04/26/2012	ND	50.0000	2.0000	**
Vanadium	ug/L	MW-22	10/09/2012	ND	50.0000	2.0000	**
Vanadium	ug/L	MW-22	02/20/2013	ND	50.0000	2.0000	**
Vanadium	ug/L	MW-22	10/03/2013	ND	50.0000	2.0000	**
Vanadium	ug/L	MW-22	04/22/2014	ND	50.0000	2.0000	**
Vanadium	ug/L	MW-22	10/14/2014	ND	50.0000	2.0000	**
Vanadium	ug/L	MW-22	05/12/2015	ND	2.0000		
Vanadium	ug/L	MW-22	07/29/2015	ND	2.0000		
Vanadium	ug/L	MW-22	03/28/2016	ND	2.0000		
Vanadium	ug/L	MW-22	10/31/2016	ND	2.0000		
Vanadium	ug/L	MW-22	03/27/2017	ND	2.0000		
Vanadium	ug/L	MW-22	11/13/2017	ND	2.0000		
Vanadium	ug/L	MW-22	06/06/2018	ND	4.0000	2.0000	**
Vanadium	ug/L	MW-22	11/26/2018	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	
Vanadium	ug/L	MW-22	03/18/2019	ND	2.0000		
Vanadium	ug/L	MW-22	12/02/2019	ND	2.0000		
Vanadium	ug/L	MW-22	03/30/2020	ND	5.0000	2.0000	**
Vanadium	ug/L	MW-22	11/17/2020	ND	3.0000	2.0000	**
Vanadium	ug/L	MW-22	05/06/2021	ND	1.5700	2.0000	**
Vanadium	ug/L	MW-22	10/07/2021	ND	1.1000	2.0000	**
Vanadium	ug/L	MW-22	04/06/2022	ND	1.1100	2.0000	**
Vanadium	ug/L	MW-22	08/23/2022	ND	2.0100	2.0000	**
Vanadium	ug/L	MW-22	03/08/2023	ND	1.3300	2.0000	**
Vanadium	ug/L	MW-22	09/13/2023	ND	1.3550	2.0000	**
Vanadium	ug/L	MW-22	05/29/2024	ND	1.4500	2.0000	**
Vanadium	ug/L	MW-22	10/15/2024	ND	20.0000	2.0000	**
Vanadium	ug/L	MW-22	04/16/2025	ND	2.0000		
Vanadium	ug/L	MW-22	10/27/2025	ND	2.0000		
Zinc	ug/L	MW-22	02/11/2008	ND	20.0000		
Zinc	ug/L	MW-22	04/30/2008	ND	5.2700	20.0000	**
Zinc	ug/L	MW-22	07/09/2008		25.1000		
Zinc	ug/L	MW-22	09/11/2008	ND	20.0000		
Zinc	ug/L	MW-22	12/10/2008		21.3000		
Zinc	ug/L	MW-22	08/21/2009	ND	20.0000		
Zinc	ug/L	MW-22	03/11/2010	ND	20.0000		
Zinc	ug/L	MW-22	08/31/2010	ND	20.0000		
Zinc	ug/L	MW-22	02/16/2011	ND	20.0000		
Zinc	ug/L	MW-22	10/27/2011	ND	20.0000		
Zinc	ug/L	MW-22	04/26/2012		25.0000		
Zinc	ug/L	MW-22	10/09/2012	ND	20.0000		
Zinc	ug/L	MW-22	02/20/2013		24.2500		
Zinc	ug/L	MW-22	10/03/2013		34.1000		
Zinc	ug/L	MW-22	04/22/2014	ND	20.0000		
Zinc	ug/L	MW-22	10/14/2014	ND	20.0000		
Zinc	ug/L	MW-22	05/12/2015	ND	10.0000	20.0000	**
Zinc	ug/L	MW-22	07/29/2015		97.4000		*
Zinc	ug/L	MW-22	03/28/2016		13.2000		
Zinc	ug/L	MW-22	10/31/2016		12.5000		
Zinc	ug/L	MW-22	03/27/2017	ND	20.0000		
Zinc	ug/L	MW-22	11/13/2017	ND	20.0000		
Zinc	ug/L	MW-22	06/06/2018	ND	20.0000		
Zinc	ug/L	MW-22	11/26/2018	ND	20.0000		
Zinc	ug/L	MW-22	03/18/2019	ND	20.0000		
Zinc	ug/L	MW-22	12/02/2019	ND	20.0000		
Zinc	ug/L	MW-22	03/30/2020	ND	20.0000		
Zinc	ug/L	MW-22	11/17/2020	ND	20.0000		
Zinc	ug/L	MW-22	05/06/2021	ND	20.0000		
Zinc	ug/L	MW-22	10/07/2021	ND	20.0000		
Zinc	ug/L	MW-22	04/06/2022	ND	20.0000		
Zinc	ug/L	MW-22	08/23/2022	ND	20.0000		
Zinc	ug/L	MW-22	03/08/2023	ND	20.0000		
Zinc	ug/L	MW-22	09/13/2023	ND	20.0000		
Zinc	ug/L	MW-22	05/29/2024	ND	20.0000		
Zinc	ug/L	MW-22	10/15/2024	ND	20.0000		
Zinc	ug/L	MW-22	04/16/2025	ND	5.0000	20.0000	**
Zinc	ug/L	MW-22	10/27/2025		5.6000		
Antimony	ug/L	MW-41	04/16/2025	ND	1.0000	6.0000	**
Antimony	ug/L	MW-41	10/27/2025	ND	1.0000	6.0000	**
Arsenic	ug/L	MW-41	04/16/2025	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-41	10/27/2025	ND	2.0000	1.0000	**
Barium	ug/L	MW-41	04/16/2025		223.0000		
Barium	ug/L	MW-41	10/27/2025		218.0000		
Beryllium	ug/L	MW-41	04/16/2025	ND	0.5000	1.0000	**
Beryllium	ug/L	MW-41	10/27/2025	ND	0.5000	1.0000	**
Cadmium	ug/L	MW-41	04/16/2025		0.3000		
Cadmium	ug/L	MW-41	10/27/2025	ND	0.2000	0.5000	**
Chromium	ug/L	MW-41	04/16/2025		1.0000		
Chromium	ug/L	MW-41	10/27/2025		1.1000		
Cobalt	ug/L	MW-41	04/16/2025	ND	0.5000		
Cobalt	ug/L	MW-41	10/27/2025	ND	0.5000		
Copper	ug/L	MW-41	04/16/2025	ND	5.0000		
Copper	ug/L	MW-41	10/27/2025	ND	5.0000		
Lead	ug/L	MW-41	04/16/2025	ND	1.0000		
Lead	ug/L	MW-41	10/27/2025	ND	1.0000		
Nickel	ug/L	MW-41	04/16/2025	ND	5.0000		
Nickel	ug/L	MW-41	10/27/2025	ND	5.0000		
Selenium	ug/L	MW-41	04/16/2025	ND	2.0000	3.2450	**
Selenium	ug/L	MW-41	10/27/2025	ND	2.0000	3.2450	**

* - 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	ug/L	MW-41	04/16/2025	ND	5.0000	2.6100	**
Silver	ug/L	MW-41	10/27/2025	ND	5.0000	2.6100	**
Thallium	ug/L	MW-41	04/16/2025	ND	0.5000	1.0000	**
Thallium	ug/L	MW-41	10/27/2025	ND	0.5000	1.0000	**
Vanadium	ug/L	MW-41	04/16/2025	ND	2.0000		
Vanadium	ug/L	MW-41	10/27/2025	ND	2.0000		
Zinc	ug/L	MW-41	04/16/2025	ND	5.0000	20.0000	**
Zinc	ug/L	MW-41	10/27/2025	ND	5.0000	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	ug/L	MW-11	10/27/2025	ND	1.0000		6.6000
Arsenic	ug/L	MW-11	10/27/2025	ND	2.0000	**	1.3500
Barium	ug/L	MW-11	10/27/2025		203.0000	**	294.5947
Beryllium	ug/L	MW-11	10/27/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-11	10/27/2025		0.2000	**	1.5800
Chromium	ug/L	MW-11	10/27/2025		1.0000		5.0000
Cobalt	ug/L	MW-11	10/27/2025		2.1000	***	1.7300
Copper	ug/L	MW-11	10/27/2025		54.9000	***	16.4000
Lead	ug/L	MW-11	10/27/2025	ND	1.0000	**	1.0000
Nickel	ug/L	MW-11	10/27/2025		6.3000	**	10.7500
Selenium	ug/L	MW-11	10/27/2025	ND	2.0000		3.2450
Silver	ug/L	MW-11	10/27/2025	ND	5.0000		2.6100
Thallium	ug/L	MW-11	10/27/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-11	10/27/2025	ND	2.0000		2.0000
Zinc	ug/L	MW-11	10/27/2025		81.5000	***	34.1000
Antimony	ug/L	MW-13	10/27/2025	ND	1.0000		6.6000
Arsenic	ug/L	MW-13	10/27/2025	ND	2.0000		1.3500
Barium	ug/L	MW-13	10/27/2025		213.0000		294.5947
Beryllium	ug/L	MW-13	10/27/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-13	10/27/2025	ND	0.2000		1.5800
Chromium	ug/L	MW-13	10/27/2025		1.4000		5.0000
Cobalt	ug/L	MW-13	10/27/2025	ND	0.5000		1.7300
Copper	ug/L	MW-13	10/27/2025	ND	5.0000		16.4000
Lead	ug/L	MW-13	10/27/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-13	10/27/2025	ND	5.0000		10.7500
Selenium	ug/L	MW-13	10/27/2025	ND	2.0000		3.2450
Silver	ug/L	MW-13	10/27/2025	ND	5.0000		2.6100
Thallium	ug/L	MW-13	10/27/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-13	10/27/2025	ND	2.0000		2.0000
Zinc	ug/L	MW-13	10/27/2025		8.3000		34.1000
Antimony	ug/L	MW-23	10/27/2025		1.2000		6.6000
Arsenic	ug/L	MW-23	10/27/2025		2.0000	*	1.3500
Barium	ug/L	MW-23	10/27/2025		22.9000		294.5947
Beryllium	ug/L	MW-23	10/27/2025	ND	0.5000		1.0000
Cadmium	ug/L	MW-23	10/27/2025	ND	0.2000		1.5800
Chromium	ug/L	MW-23	10/27/2025		4.0000		5.0000
Cobalt	ug/L	MW-23	10/27/2025	ND	0.5000		1.7300
Copper	ug/L	MW-23	10/27/2025	ND	5.0000		16.4000
Lead	ug/L	MW-23	10/27/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-23	10/27/2025	ND	5.0000		10.7500
Selenium	ug/L	MW-23	10/27/2025	ND	2.0000		3.2450
Silver	ug/L	MW-23	10/27/2025	ND	5.0000		2.6100
Thallium	ug/L	MW-23	10/27/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-23	10/27/2025	ND	2.0000		2.0000
Zinc	ug/L	MW-23	10/27/2025		7.9000		34.1000
Antimony	ug/L	MW-36	10/27/2025	ND	1.0000		6.6000
Arsenic	ug/L	MW-36	10/27/2025		4.5000	*	1.3500
Barium	ug/L	MW-36	10/27/2025		251.0000		294.5947
Beryllium	ug/L	MW-36	10/27/2025		0.5000		1.0000
Cadmium	ug/L	MW-36	10/27/2025		1.1000		1.5800
Chromium	ug/L	MW-36	10/27/2025		6.4000	*	5.0000
Cobalt	ug/L	MW-36	10/27/2025		13.3000	*	1.7300
Copper	ug/L	MW-36	10/27/2025		6.1000		16.4000
Lead	ug/L	MW-36	10/27/2025	ND	1.0000		1.0000
Nickel	ug/L	MW-36	10/27/2025		13.7000	*	10.7500
Selenium	ug/L	MW-36	10/27/2025		6.2000	*	3.2450
Silver	ug/L	MW-36	10/27/2025	ND	5.0000		2.6100
Thallium	ug/L	MW-36	10/27/2025	ND	0.5000		1.0000
Vanadium	ug/L	MW-36	10/27/2025	ND	2.0000		2.0000
Zinc	ug/L	MW-36	10/27/2025		5.2000		34.1000

* - 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	7	38	0.184	4	120	0.033
Arsenic	1	38	0.026	61	120	0.508
Barium	40	40	1.000	120	120	1.000
Beryllium	0	37	0.000	22	120	0.183
Cadmium	9	40	0.225	65	120	0.542
Chromium	3	40	0.075	11	120	0.092
Cobalt	2	40	0.050	82	120	0.683
Copper	1	40	0.025	27	121	0.223
Lead	2	40	0.050	39	120	0.325
Nickel	1	40	0.025	55	121	0.455
Selenium	0	40	0.000	18	120	0.150
Silver	0	40	0.000	1	120	0.008
Thallium	0	40	0.000	6	120	0.050
Vanadium	0	40	0.000	19	121	0.157
Zinc	8	39	0.205	50	120	0.417

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	7	38	0.184	1.206	1.238					2.326	normal	nonpar
Arsenic	1	38	0.026									nonpar
Barium	40	40	1.000	0.225	0.796					2.326	normal	normal
Beryllium	0	37	0.000									nonpar
Cadmium	9	40	0.225	1.708	0.158					2.326	normal	nonpar
Chromium	3	40	0.075									nonpar
Cobalt	2	40	0.050									nonpar
Copper	1	40	0.025									nonpar
Lead	2	40	0.050									nonpar
Nickel	1	40	0.025									nonpar
Selenium	0	40	0.000									nonpar
Silver	0	40	0.000									nonpar
Thallium	0	40	0.000									nonpar
Vanadium	0	40	0.000									nonpar
Zinc	8	39	0.205	0.450	0.921					2.326	normal	nonpar

* - Distribution override for that constituent.

Fit to distribution is confirmed if $G \leq$ 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	ug/L	7	38					6.6000	nonpar		0.99
Arsenic	ug/L	1	38					1.3500	nonpar		0.99
Barium	ug/L	40	40	245.2875	20.0774	0.0100	2.4559	294.5947	normal		
Beryllium	ug/L	0	37					1.0000	nonpar	***	0.99
Cadmium	ug/L	9	40					1.5800	nonpar		0.99
Chromium	ug/L	3	40					5.0000	nonpar	***	0.99
Cobalt	ug/L	2	40					1.7300	nonpar		0.99
Copper	ug/L	1	40					16.4000	nonpar		0.99
Lead	ug/L	2	40					1.0000	nonpar	***	0.99
Nickel	ug/L	1	40					10.7500	nonpar		0.99
Selenium	ug/L	0	40					3.2450	nonpar	***	0.99
Silver	ug/L	0	40					2.6100	nonpar	***	0.99
Thallium	ug/L	0	40					1.0000	nonpar	***	0.99
Vanadium	ug/L	0	40					2.0000	nonpar	***	0.99
Zinc	ug/L	8	39					34.1000	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
Antimony	ug/L	MW-22	03/28/2016	236.0000		02/11/2008-10/27/2025	37	0.4232
Arsenic	ug/L	MW-22	04/26/2012	4.0000	< 4.0000	02/11/2008-10/27/2025	38	0.4232
Arsenic	ug/L	MW-22	10/15/2024	4.0000	< 4.0000	02/11/2008-10/27/2025	38	0.4232
Beryllium	ug/L	MW-22	04/30/2008	0.0280	< 0.0280	02/11/2008-10/27/2025	38	0.4194
Beryllium	ug/L	MW-22	04/26/2012	4.0000	< 4.0000	02/11/2008-10/27/2025	38	0.4232
Beryllium	ug/L	MW-22	10/15/2024	4.0000	< 4.0000	02/11/2008-10/27/2025	38	0.4232
Zinc	ug/L	MW-22	07/29/2015	97.4000		02/11/2008-10/27/2025	38	0.4194

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
Arsenic	ug/L	MW-11	02/11/2008		3.0100 *	1.3500
Arsenic	ug/L	MW-11	04/30/2008		5.4300 *	1.3500
Arsenic	ug/L	MW-11	07/09/2008		4.2200 *	1.3500
Arsenic	ug/L	MW-11	09/11/2008		2.1500 *	1.3500
Arsenic	ug/L	MW-11	12/10/2008		5.6000 *	1.3500
Arsenic	ug/L	MW-11	03/03/2009		3.8800 *	1.3500
Arsenic	ug/L	MW-11	08/21/2009		3.0000 *	1.3500
Arsenic	ug/L	MW-11	10/21/2009		3.9700 *	1.3500
Arsenic	ug/L	MW-11	03/11/2010		1.0900	1.3500
Arsenic	ug/L	MW-11	08/31/2010	ND	1.0000	1.3500
Arsenic	ug/L	MW-11	02/16/2011	ND	1.0000	1.3500
Arsenic	ug/L	MW-11	10/27/2011		3.8800 *	1.3500
Arsenic	ug/L	MW-11	04/26/2012		10.2000 *	1.3500
Arsenic	ug/L	MW-11	10/09/2012		3.5400 *	1.3500
Arsenic	ug/L	MW-11	02/20/2013		4.1200 *	1.3500
Arsenic	ug/L	MW-11	10/03/2013		17.2500 *	1.3500
Arsenic	ug/L	MW-11	04/22/2014		7.1300 *	1.3500
Arsenic	ug/L	MW-11	10/14/2014		4.5600 *	1.3500
Arsenic	ug/L	MW-11	05/12/2015		5.2500 *	1.3500
Arsenic	ug/L	MW-11	07/29/2015		3.3800 *	1.3500
Arsenic	ug/L	MW-11	02/15/2016		3.0200 *	1.3500
Arsenic	ug/L	MW-11	10/31/2016		3.1400 *	1.3500
Arsenic	ug/L	MW-11	03/27/2017		3.6950 *	1.3500
Arsenic	ug/L	MW-11	11/13/2017		2.8200 *	1.3500
Arsenic	ug/L	MW-11	06/06/2018		3.0700 *	1.3500
Arsenic	ug/L	MW-11	11/26/2018		3.7400 *	1.3500
Arsenic	ug/L	MW-11	03/18/2019		2.5100 *	1.3500
Arsenic	ug/L	MW-11	12/02/2019		2.1900 *	1.3500
Arsenic	ug/L	MW-11	03/30/2020		2.1300 *	1.3500
Arsenic	ug/L	MW-11	11/17/2020		3.9100 *	1.3500
Arsenic	ug/L	MW-11	05/06/2021		2.8300 *	1.3500
Arsenic	ug/L	MW-11	10/07/2021		11.0000 *	1.3500
Arsenic	ug/L	MW-11	04/06/2022		7.5300 *	1.3500
Arsenic	ug/L	MW-11	08/23/2022		2.3000 *	1.3500
Arsenic	ug/L	MW-11	03/08/2023		13.5000 *	1.3500
Arsenic	ug/L	MW-11	09/13/2023		14.5000 *	1.3500
Arsenic	ug/L	MW-11	05/29/2024		5.1700 *	1.3500
Arsenic	ug/L	MW-11	10/15/2024		6.6000 *	1.3500
Arsenic	ug/L	MW-11	04/16/2025		17.7000 *	1.3500
Arsenic	ug/L	MW-11	10/27/2025	ND	2.0000	1.3500
Barium	ug/L	MW-11	02/11/2008		786.0000 *	294.5947
Barium	ug/L	MW-11	04/30/2008		963.0000 *	294.5947
Barium	ug/L	MW-11	07/09/2008		915.0000 *	294.5947
Barium	ug/L	MW-11	09/11/2008		606.0000 *	294.5947
Barium	ug/L	MW-11	12/10/2008		754.0000 *	294.5947
Barium	ug/L	MW-11	03/03/2009		1480.0000 *	294.5947
Barium	ug/L	MW-11	08/21/2009		471.0000 *	294.5947
Barium	ug/L	MW-11	10/21/2009		714.0000 *	294.5947
Barium	ug/L	MW-11	03/11/2010		347.0000 *	294.5947
Barium	ug/L	MW-11	08/31/2010		148.0000	294.5947
Barium	ug/L	MW-11	02/16/2011		332.0000 *	294.5947
Barium	ug/L	MW-11	10/27/2011		351.0000 *	294.5947
Barium	ug/L	MW-11	04/26/2012		423.0000 *	294.5947
Barium	ug/L	MW-11	10/09/2012		330.0000 *	294.5947
Barium	ug/L	MW-11	02/20/2013		468.0000 *	294.5947
Barium	ug/L	MW-11	10/03/2013		534.5000 *	294.5947
Barium	ug/L	MW-11	04/22/2014		605.0000 *	294.5947
Barium	ug/L	MW-11	10/14/2014		561.0000 *	294.5947
Barium	ug/L	MW-11	05/12/2015		582.0000 *	294.5947
Barium	ug/L	MW-11	07/29/2015		529.0000 *	294.5947
Barium	ug/L	MW-11	02/15/2016		510.0000 *	294.5947
Barium	ug/L	MW-11	10/31/2016		514.0000 *	294.5947
Barium	ug/L	MW-11	03/27/2017		529.0000 *	294.5947
Barium	ug/L	MW-11	11/13/2017		448.0000 *	294.5947
Barium	ug/L	MW-11	06/06/2018		434.0000 *	294.5947
Barium	ug/L	MW-11	11/26/2018		462.0000 *	294.5947
Barium	ug/L	MW-11	03/18/2019		456.0000 *	294.5947
Barium	ug/L	MW-11	12/02/2019		410.0000 *	294.5947
Barium	ug/L	MW-11	03/30/2020		416.0000 *	294.5947
Barium	ug/L	MW-11	11/17/2020		397.0000 *	294.5947
Barium	ug/L	MW-11	05/06/2021		465.0000 *	294.5947

* - 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	ug/L	MW-11	10/07/2021		571.0000	*	294.5947
Barium	ug/L	MW-11	04/06/2022		543.5000	*	294.5947
Barium	ug/L	MW-11	08/23/2022		419.0000	*	294.5947
Barium	ug/L	MW-11	03/08/2023		745.0000	*	294.5947
Barium	ug/L	MW-11	09/13/2023		636.0000	*	294.5947
Barium	ug/L	MW-11	05/29/2024		496.0000	*	294.5947
Barium	ug/L	MW-11	10/15/2024		346.0000	*	294.5947
Barium	ug/L	MW-11	04/16/2025		608.0000	*	294.5947
Barium	ug/L	MW-11	10/27/2025		203.0000		294.5947
Cadmium	ug/L	MW-11	02/11/2008		0.6730		1.5800
Cadmium	ug/L	MW-11	04/30/2008		2.6300	*	1.5800
Cadmium	ug/L	MW-11	07/09/2008		1.3500		1.5800
Cadmium	ug/L	MW-11	09/11/2008		7.8000	*	1.5800
Cadmium	ug/L	MW-11	12/10/2008		2.9400	*	1.5800
Cadmium	ug/L	MW-11	03/03/2009		1.1200		1.5800
Cadmium	ug/L	MW-11	08/21/2009		1.0300		1.5800
Cadmium	ug/L	MW-11	10/21/2009		1.1200		1.5800
Cadmium	ug/L	MW-11	03/11/2010		7.0600	*	1.5800
Cadmium	ug/L	MW-11	08/31/2010		3.3500	*	1.5800
Cadmium	ug/L	MW-11	02/16/2011		3.4700	*	1.5800
Cadmium	ug/L	MW-11	10/27/2011		1.9700	*	1.5800
Cadmium	ug/L	MW-11	04/26/2012	ND	0.8000		1.5800
Cadmium	ug/L	MW-11	10/09/2012		1.1100		1.5800
Cadmium	ug/L	MW-11	02/20/2013		0.8280		1.5800
Cadmium	ug/L	MW-11	10/03/2013		1.5250		1.5800
Cadmium	ug/L	MW-11	04/22/2014		0.9690		1.5800
Cadmium	ug/L	MW-11	10/14/2014		0.9730		1.5800
Cadmium	ug/L	MW-11	05/12/2015		0.9840		1.5800
Cadmium	ug/L	MW-11	07/29/2015	ND	1.0000		1.5800
Cadmium	ug/L	MW-11	02/15/2016	ND	0.5000		1.5800
Cadmium	ug/L	MW-11	10/31/2016	ND	1.0000		1.5800
Cadmium	ug/L	MW-11	03/27/2017	ND	0.5000		1.5800
Cadmium	ug/L	MW-11	11/13/2017	ND	0.5000		1.5800
Cadmium	ug/L	MW-11	06/06/2018		0.6070		1.5800
Cadmium	ug/L	MW-11	11/26/2018	ND	1.0000		1.5800
Cadmium	ug/L	MW-11	03/18/2019	ND	1.0000		1.5800
Cadmium	ug/L	MW-11	12/02/2019	ND	0.1000		1.5800
Cadmium	ug/L	MW-11	03/30/2020	ND	1.0000		1.5800
Cadmium	ug/L	MW-11	11/17/2020	ND	1.0000		1.5800
Cadmium	ug/L	MW-11	05/06/2021	ND	0.1000		1.5800
Cadmium	ug/L	MW-11	10/07/2021	ND	0.1000		1.5800
Cadmium	ug/L	MW-11	04/06/2022	ND	0.1000		1.5800
Cadmium	ug/L	MW-11	08/23/2022		0.1160		1.5800
Cadmium	ug/L	MW-11	03/08/2023		0.2590		1.5800
Cadmium	ug/L	MW-11	09/13/2023		0.2130		1.5800
Cadmium	ug/L	MW-11	05/29/2024	ND	0.2000		1.5800
Cadmium	ug/L	MW-11	10/15/2024	ND	0.8000		1.5800
Cadmium	ug/L	MW-11	04/16/2025		1.6000	*	1.5800
Cadmium	ug/L	MW-11	10/27/2025		0.2000		1.5800
Cobalt	ug/L	MW-11	02/11/2008	ND	20.0000		1.7300
Cobalt	ug/L	MW-11	04/30/2008	ND	1.4000		1.7300
Cobalt	ug/L	MW-11	07/09/2008		20.4000	*	1.7300
Cobalt	ug/L	MW-11	09/11/2008	ND	20.0000		1.7300
Cobalt	ug/L	MW-11	12/10/2008	ND	20.0000		1.7300
Cobalt	ug/L	MW-11	03/03/2009		36.1000	*	1.7300
Cobalt	ug/L	MW-11	08/21/2009	ND	20.0000		1.7300
Cobalt	ug/L	MW-11	10/21/2009	ND	20.0000		1.7300
Cobalt	ug/L	MW-11	03/11/2010		17.2000	*	1.7300
Cobalt	ug/L	MW-11	08/31/2010		5.0700	*	1.7300
Cobalt	ug/L	MW-11	02/16/2011		25.3000	*	1.7300
Cobalt	ug/L	MW-11	10/27/2011		47.8000	*	1.7300
Cobalt	ug/L	MW-11	04/26/2012		42.4000	*	1.7300
Cobalt	ug/L	MW-11	10/09/2012		31.5000	*	1.7300
Cobalt	ug/L	MW-11	02/20/2013		67.4000	*	1.7300
Cobalt	ug/L	MW-11	10/03/2013		60.8500	*	1.7300
Cobalt	ug/L	MW-11	04/22/2014		71.1000	*	1.7300
Cobalt	ug/L	MW-11	10/14/2014		44.1000	*	1.7300
Cobalt	ug/L	MW-11	05/12/2015		54.5000	*	1.7300
Cobalt	ug/L	MW-11	07/29/2015		20.9000	*	1.7300
Cobalt	ug/L	MW-11	02/15/2016		17.6000	*	1.7300
Cobalt	ug/L	MW-11	10/31/2016		8.3700	*	1.7300

* - 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
Cobalt	ug/L	MW-11	03/27/2017		8.7150 *	1.7300
Cobalt	ug/L	MW-11	11/13/2017		5.6400 *	1.7300
Cobalt	ug/L	MW-11	06/06/2018		5.5100 *	1.7300
Cobalt	ug/L	MW-11	11/26/2018		4.5800 *	1.7300
Cobalt	ug/L	MW-11	03/18/2019		4.1000 *	1.7300
Cobalt	ug/L	MW-11	12/02/2019		3.5400 *	1.7300
Cobalt	ug/L	MW-11	03/30/2020		3.2900 *	1.7300
Cobalt	ug/L	MW-11	11/17/2020		9.9250 *	1.7300
Cobalt	ug/L	MW-11	05/06/2021		9.3200 *	1.7300
Cobalt	ug/L	MW-11	10/07/2021		14.8000 *	1.7300
Cobalt	ug/L	MW-11	04/06/2022		10.7000 *	1.7300
Cobalt	ug/L	MW-11	08/23/2022		6.1900 *	1.7300
Cobalt	ug/L	MW-11	03/08/2023		13.4000 *	1.7300
Cobalt	ug/L	MW-11	09/13/2023		11.3000 *	1.7300
Cobalt	ug/L	MW-11	05/29/2024		6.6300 *	1.7300
Cobalt	ug/L	MW-11	10/15/2024		3.0000 *	1.7300
Cobalt	ug/L	MW-11	04/16/2025		14.2000 *	1.7300
Cobalt	ug/L	MW-11	10/27/2025		2.1000 *	1.7300
Copper	ug/L	MW-11	02/11/2008	ND	20.0000	16.4000
Copper	ug/L	MW-11	04/30/2008		20.1000 *	16.4000
Copper	ug/L	MW-11	07/09/2008		28.3000 *	16.4000
Copper	ug/L	MW-11	09/11/2008	ND	20.0000	16.4000
Copper	ug/L	MW-11	12/10/2008	ND	20.0000	16.4000
Copper	ug/L	MW-11	03/03/2009		20.8000 *	16.4000
Copper	ug/L	MW-11	08/21/2009	ND	20.0000	16.4000
Copper	ug/L	MW-11	10/21/2009	ND	20.0000	16.4000
Copper	ug/L	MW-11	03/11/2010	ND	20.0000	16.4000
Copper	ug/L	MW-11	08/31/2010	ND	20.0000	16.4000
Copper	ug/L	MW-11	02/16/2011	ND	20.0000	16.4000
Copper	ug/L	MW-11	10/27/2011	ND	20.0000	16.4000
Copper	ug/L	MW-11	04/26/2012	ND	20.0000	16.4000
Copper	ug/L	MW-11	10/09/2012	ND	20.0000	16.4000
Copper	ug/L	MW-11	02/20/2013	ND	20.0000	16.4000
Copper	ug/L	MW-11	10/03/2013	ND	20.0000	16.4000
Copper	ug/L	MW-11	04/22/2014	ND	20.0000	16.4000
Copper	ug/L	MW-11	10/14/2014	ND	20.0000	16.4000
Copper	ug/L	MW-11	05/12/2015		2.6200	16.4000
Copper	ug/L	MW-11	07/29/2015	ND	2.0000	16.4000
Copper	ug/L	MW-11	02/15/2016	ND	2.0000	16.4000
Copper	ug/L	MW-11	10/31/2016	ND	5.0000	16.4000
Copper	ug/L	MW-11	03/27/2017	ND	5.0000	16.4000
Copper	ug/L	MW-11	11/13/2017	ND	5.0000	16.4000
Copper	ug/L	MW-11	06/06/2018	ND	2.0000	16.4000
Copper	ug/L	MW-11	11/26/2018	ND	5.0000	16.4000
Copper	ug/L	MW-11	03/18/2019	ND	5.0000	16.4000
Copper	ug/L	MW-11	12/02/2019	ND	5.0000	16.4000
Copper	ug/L	MW-11	03/30/2020	ND	5.0000	16.4000
Copper	ug/L	MW-11	11/17/2020	ND	5.0000	16.4000
Copper	ug/L	MW-11	05/06/2021	ND	5.0000	16.4000
Copper	ug/L	MW-11	10/07/2021	ND	5.0000	16.4000
Copper	ug/L	MW-11	04/06/2022	ND	5.0000	16.4000
Copper	ug/L	MW-11	08/23/2022	ND	2.0100	16.4000
Copper	ug/L	MW-11	03/08/2023	ND	5.0000	16.4000
Copper	ug/L	MW-11	09/13/2023	ND	1.8100	16.4000
Copper	ug/L	MW-11	05/29/2024	ND	2.5300	16.4000
Copper	ug/L	MW-11	10/15/2024		9.7000	16.4000
Copper	ug/L	MW-11	04/16/2025		104.0000 *	16.4000
Copper	ug/L	MW-11	07/14/2025		41.5000 *	16.4000
Copper	ug/L	MW-11	10/27/2025		54.9000 *	16.4000
Lead	ug/L	MW-11	02/11/2008	ND	4.0000	1.0000
Lead	ug/L	MW-11	04/30/2008		7.4200 *	1.0000
Lead	ug/L	MW-11	07/09/2008		4.7200 *	1.0000
Lead	ug/L	MW-11	09/11/2008	ND	4.0000	1.0000
Lead	ug/L	MW-11	12/10/2008	ND	4.0000	1.0000
Lead	ug/L	MW-11	03/03/2009		5.1400 *	1.0000
Lead	ug/L	MW-11	08/21/2009	ND	4.0000	1.0000
Lead	ug/L	MW-11	10/21/2009	ND	4.0000	1.0000
Lead	ug/L	MW-11	03/11/2010		4.6400 *	1.0000
Lead	ug/L	MW-11	08/31/2010	ND	4.0000	1.0000
Lead	ug/L	MW-11	02/16/2011	ND	4.0000	1.0000
Lead	ug/L	MW-11	10/27/2011		4.6800 *	1.0000

* - 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
Lead	ug/L	MW-11	04/26/2012	ND	4.0000	1.0000
Lead	ug/L	MW-11	10/09/2012	ND	4.0000	1.0000
Lead	ug/L	MW-11	02/20/2013	ND	4.0000	1.0000
Lead	ug/L	MW-11	10/03/2013	ND	3.0000	1.0000
Lead	ug/L	MW-11	04/22/2014	ND	2.0000	1.0000
Lead	ug/L	MW-11	10/14/2014	ND	4.0000	1.0000
Lead	ug/L	MW-11	05/12/2015		0.8320	1.0000
Lead	ug/L	MW-11	07/29/2015	ND	1.0000	1.0000
Lead	ug/L	MW-11	02/15/2016	ND	0.5000	1.0000
Lead	ug/L	MW-11	10/31/2016	ND	0.5000	1.0000
Lead	ug/L	MW-11	03/27/2017	ND	0.5000	1.0000
Lead	ug/L	MW-11	11/13/2017	ND	0.5000	1.0000
Lead	ug/L	MW-11	06/06/2018	ND	1.0000	1.0000
Lead	ug/L	MW-11	11/26/2018	ND	1.0000	1.0000
Lead	ug/L	MW-11	03/18/2019	ND	0.5000	1.0000
Lead	ug/L	MW-11	12/02/2019	ND	0.5000	1.0000
Lead	ug/L	MW-11	03/30/2020	ND	0.5000	1.0000
Lead	ug/L	MW-11	11/17/2020	ND	0.5000	1.0000
Lead	ug/L	MW-11	05/06/2021	ND	0.5000	1.0000
Lead	ug/L	MW-11	10/07/2021	ND	0.5000	1.0000
Lead	ug/L	MW-11	04/06/2022	ND	0.5000	1.0000
Lead	ug/L	MW-11	08/23/2022	ND	0.5000	1.0000
Lead	ug/L	MW-11	03/08/2023		0.5340	1.0000
Lead	ug/L	MW-11	09/13/2023		0.5890	1.0000
Lead	ug/L	MW-11	05/29/2024	ND	0.5000	1.0000
Lead	ug/L	MW-11	10/15/2024	ND	4.0000	1.0000
Lead	ug/L	MW-11	04/16/2025		3.0000 *	1.0000
Lead	ug/L	MW-11	10/27/2025	ND	1.0000	1.0000
Nickel	ug/L	MW-11	02/11/2008	ND	50.0000	10.7500
Nickel	ug/L	MW-11	04/30/2008	ND	4.6000	10.7500
Nickel	ug/L	MW-11	07/09/2008	ND	50.0000	10.7500
Nickel	ug/L	MW-11	09/11/2008	ND	50.0000	10.7500
Nickel	ug/L	MW-11	12/10/2008	ND	50.0000	10.7500
Nickel	ug/L	MW-11	03/03/2009		82.2000 *	10.7500
Nickel	ug/L	MW-11	08/21/2009	ND	50.0000	10.7500
Nickel	ug/L	MW-11	10/21/2009	ND	50.0000	10.7500
Nickel	ug/L	MW-11	03/11/2010	ND	50.0000	10.7500
Nickel	ug/L	MW-11	08/31/2010	ND	50.0000	10.7500
Nickel	ug/L	MW-11	02/16/2011	ND	50.0000	10.7500
Nickel	ug/L	MW-11	10/27/2011	ND	50.0000	10.7500
Nickel	ug/L	MW-11	04/26/2012		62.4000 *	10.7500
Nickel	ug/L	MW-11	10/09/2012	ND	50.0000	10.7500
Nickel	ug/L	MW-11	02/20/2013		60.2000 *	10.7500
Nickel	ug/L	MW-11	05/15/2013		54.6000 *	10.7500
Nickel	ug/L	MW-11	10/03/2013		65.8500 *	10.7500
Nickel	ug/L	MW-11	04/22/2014		68.8000 *	10.7500
Nickel	ug/L	MW-11	10/14/2014		54.0000 *	10.7500
Nickel	ug/L	MW-11	05/12/2015		42.3000 *	10.7500
Nickel	ug/L	MW-11	07/29/2015		24.2000 *	10.7500
Nickel	ug/L	MW-11	02/15/2016		20.1000 *	10.7500
Nickel	ug/L	MW-11	10/31/2016		11.0000 *	10.7500
Nickel	ug/L	MW-11	03/27/2017		11.8000 *	10.7500
Nickel	ug/L	MW-11	11/13/2017		6.8200	10.7500
Nickel	ug/L	MW-11	06/06/2018		8.7400	10.7500
Nickel	ug/L	MW-11	11/26/2018		7.3500	10.7500
Nickel	ug/L	MW-11	03/18/2019		5.5700	10.7500
Nickel	ug/L	MW-11	12/02/2019		5.3700	10.7500
Nickel	ug/L	MW-11	03/30/2020	ND	4.0000	10.7500
Nickel	ug/L	MW-11	11/17/2020		8.1750	10.7500
Nickel	ug/L	MW-11	05/06/2021		8.8300	10.7500
Nickel	ug/L	MW-11	10/07/2021		16.4000 *	10.7500
Nickel	ug/L	MW-11	04/06/2022		14.6500 *	10.7500
Nickel	ug/L	MW-11	08/23/2022		7.4400	10.7500
Nickel	ug/L	MW-11	03/08/2023		18.8000 *	10.7500
Nickel	ug/L	MW-11	09/13/2023		14.2000 *	10.7500
Nickel	ug/L	MW-11	05/29/2024		5.6300	10.7500
Nickel	ug/L	MW-11	10/15/2024		5.4000	10.7500
Nickel	ug/L	MW-11	04/16/2025		23.1000 *	10.7500
Nickel	ug/L	MW-11	10/27/2025		6.3000	10.7500
Zinc	ug/L	MW-11	02/11/2008	ND	20.0000	34.1000
Zinc	ug/L	MW-11	04/30/2008		29.3000	34.1000

* - 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
Zinc	ug/L	MW-11	07/09/2008		121.0000	*	34.1000
Zinc	ug/L	MW-11	09/11/2008		25.4000		34.1000
Zinc	ug/L	MW-11	12/10/2008		31.2000		34.1000
Zinc	ug/L	MW-11	03/03/2009		56.1000	*	34.1000
Zinc	ug/L	MW-11	08/21/2009		40.5000	*	34.1000
Zinc	ug/L	MW-11	10/21/2009		53.9000	*	34.1000
Zinc	ug/L	MW-11	03/11/2010		75.5000	*	34.1000
Zinc	ug/L	MW-11	08/31/2010		24.9000		34.1000
Zinc	ug/L	MW-11	02/16/2011	ND	20.0000		34.1000
Zinc	ug/L	MW-11	10/27/2011	ND	20.0000		34.1000
Zinc	ug/L	MW-11	04/26/2012	ND	20.0000		34.1000
Zinc	ug/L	MW-11	10/09/2012	ND	20.0000		34.1000
Zinc	ug/L	MW-11	02/20/2013		52.7000	*	34.1000
Zinc	ug/L	MW-11	10/03/2013		151.5000	*	34.1000
Zinc	ug/L	MW-11	04/22/2014	ND	20.0000		34.1000
Zinc	ug/L	MW-11	10/14/2014	ND	20.0000		34.1000
Zinc	ug/L	MW-11	05/12/2015	ND	10.0000		34.1000
Zinc	ug/L	MW-11	07/29/2015	ND	10.0000		34.1000
Zinc	ug/L	MW-11	02/15/2016	ND	10.0000		34.1000
Zinc	ug/L	MW-11	10/31/2016	ND	10.0000		34.1000
Zinc	ug/L	MW-11	03/27/2017	ND	20.0000		34.1000
Zinc	ug/L	MW-11	11/13/2017	ND	20.0000		34.1000
Zinc	ug/L	MW-11	06/06/2018	ND	20.0000		34.1000
Zinc	ug/L	MW-11	11/26/2018	ND	20.0000		34.1000
Zinc	ug/L	MW-11	03/18/2019	ND	20.0000		34.1000
Zinc	ug/L	MW-11	12/02/2019	ND	20.0000		34.1000
Zinc	ug/L	MW-11	03/30/2020	ND	20.0000		34.1000
Zinc	ug/L	MW-11	11/17/2020	ND	20.0000		34.1000
Zinc	ug/L	MW-11	05/06/2021	ND	20.0000		34.1000
Zinc	ug/L	MW-11	10/07/2021	ND	20.0000		34.1000
Zinc	ug/L	MW-11	04/06/2022	ND	20.0000		34.1000
Zinc	ug/L	MW-11	08/23/2022	ND	20.0000		34.1000
Zinc	ug/L	MW-11	03/08/2023	ND	20.0000		34.1000
Zinc	ug/L	MW-11	09/13/2023	ND	20.0000		34.1000
Zinc	ug/L	MW-11	05/29/2024	ND	11.5000		34.1000
Zinc	ug/L	MW-11	10/15/2024		28.4000		34.1000
Zinc	ug/L	MW-11	04/16/2025		131.0000	*	34.1000
Zinc	ug/L	MW-11	10/27/2025		81.5000	*	34.1000
Arsenic	ug/L	MW-23	02/11/2008		4.0400	*	1.3500
Arsenic	ug/L	MW-23	04/30/2008	ND	1.0000		1.3500
Arsenic	ug/L	MW-23	07/09/2008		3.1000	*	1.3500
Arsenic	ug/L	MW-23	09/11/2008		1.8800	*	1.3500
Arsenic	ug/L	MW-23	12/10/2008	ND	1.0000		1.3500
Arsenic	ug/L	MW-23	03/03/2009		1.4450	*	1.3500
Arsenic	ug/L	MW-23	08/21/2009	ND	1.0000		1.3500
Arsenic	ug/L	MW-23	03/11/2010	ND	1.0000		1.3500
Arsenic	ug/L	MW-23	08/31/2010	ND	1.0000		1.3500
Arsenic	ug/L	MW-23	02/16/2011	ND	1.0000		1.3500
Arsenic	ug/L	MW-23	07/07/2011	ND	1.0000		1.3500
Arsenic	ug/L	MW-23	10/27/2011	ND	1.0000		1.3500
Arsenic	ug/L	MW-23	04/26/2012		6.2500	*	1.3500
Arsenic	ug/L	MW-23	10/09/2012	ND	1.0000		1.3500
Arsenic	ug/L	MW-23	02/20/2013	ND	1.0000		1.3500
Arsenic	ug/L	MW-23	10/03/2013		1.2200		1.3500
Arsenic	ug/L	MW-23	04/22/2014	ND	1.0000		1.3500
Arsenic	ug/L	MW-23	10/14/2014	ND	1.0000		1.3500
Arsenic	ug/L	MW-23	05/12/2015	ND	2.0000		1.3500
Arsenic	ug/L	MW-23	07/29/2015	ND	2.0000		1.3500
Arsenic	ug/L	MW-23	02/15/2016	ND	2.0000		1.3500
Arsenic	ug/L	MW-23	10/31/2016	ND	2.0000		1.3500
Arsenic	ug/L	MW-23	03/27/2017	ND	2.0000		1.3500
Arsenic	ug/L	MW-23	11/13/2017	ND	2.0000		1.3500
Arsenic	ug/L	MW-23	06/06/2018		1.4600	*	1.3500
Arsenic	ug/L	MW-23	11/26/2018	ND	2.0000		1.3500
Arsenic	ug/L	MW-23	03/18/2019	ND	2.0000		1.3500
Arsenic	ug/L	MW-23	12/02/2019	ND	2.0000		1.3500
Arsenic	ug/L	MW-23	03/30/2020	ND	2.0000		1.3500
Arsenic	ug/L	MW-23	11/17/2020	ND	2.0000		1.3500
Arsenic	ug/L	MW-23	05/06/2021	ND	2.0000		1.3500
Arsenic	ug/L	MW-23	10/07/2021	ND	2.0000		1.3500
Arsenic	ug/L	MW-23	04/06/2022	ND	2.0000		1.3500

* - 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
Arsenic	ug/L	MW-23	08/23/2022	ND	2.0000	1.3500
Arsenic	ug/L	MW-23	03/08/2023	ND	2.0000	1.3500
Arsenic	ug/L	MW-23	09/13/2023	ND	1.0000	1.3500
Arsenic	ug/L	MW-23	05/29/2024	ND	2.0000	1.3500
Arsenic	ug/L	MW-23	10/15/2024	ND	4.0000	1.3500
Arsenic	ug/L	MW-23	04/16/2025	ND	2.0000	1.3500
Arsenic	ug/L	MW-23	10/27/2025		2.0000 *	1.3500
Arsenic	ug/L	MW-36	08/21/2009		6.6000 *	1.3500
Arsenic	ug/L	MW-36	12/15/2009		7.6300 *	1.3500
Arsenic	ug/L	MW-36	02/18/2010		5.5700 *	1.3500
Arsenic	ug/L	MW-36	03/11/2010		2.1100 *	1.3500
Arsenic	ug/L	MW-36	05/27/2010		2.5000 *	1.3500
Arsenic	ug/L	MW-36	08/31/2010		3.2900 *	1.3500
Arsenic	ug/L	MW-36	02/16/2011		2.4900 *	1.3500
Arsenic	ug/L	MW-36	07/07/2011		1.6600 *	1.3500
Arsenic	ug/L	MW-36	10/27/2011	ND	1.0000	1.3500
Arsenic	ug/L	MW-36	04/26/2012		138.0000 *	1.3500
Arsenic	ug/L	MW-36	10/09/2012		5.1900 *	1.3500
Arsenic	ug/L	MW-36	02/20/2013		2.0300 *	1.3500
Arsenic	ug/L	MW-36	10/03/2013		4.1400 *	1.3500
Arsenic	ug/L	MW-36	04/22/2014		1.8800 *	1.3500
Arsenic	ug/L	MW-36	10/14/2014	ND	1.0000	1.3500
Arsenic	ug/L	MW-36	05/12/2015		2.7350 *	1.3500
Arsenic	ug/L	MW-36	07/29/2015	ND	2.0000	1.3500
Arsenic	ug/L	MW-36	02/15/2016	ND	2.0000	1.3500
Arsenic	ug/L	MW-36	10/31/2016	ND	2.0000	1.3500
Arsenic	ug/L	MW-36	03/27/2017	ND	2.0000	1.3500
Arsenic	ug/L	MW-36	11/13/2017	ND	1.0000	1.3500
Arsenic	ug/L	MW-36	06/06/2018		5.2300 *	1.3500
Arsenic	ug/L	MW-36	11/26/2018	ND	2.0000	1.3500
Arsenic	ug/L	MW-36	03/18/2019	ND	1.5000	1.3500
Arsenic	ug/L	MW-36	12/02/2019	ND	2.0000	1.3500
Arsenic	ug/L	MW-36	03/30/2020	ND	2.0000	1.3500
Arsenic	ug/L	MW-36	11/17/2020	ND	2.0000	1.3500
Arsenic	ug/L	MW-36	05/06/2021	ND	2.0000	1.3500
Arsenic	ug/L	MW-36	10/07/2021	ND	2.0000	1.3500
Arsenic	ug/L	MW-36	04/06/2022	ND	2.0000	1.3500
Arsenic	ug/L	MW-36	08/23/2022	ND	2.0000	1.3500
Arsenic	ug/L	MW-36	03/08/2023	ND	2.0000	1.3500
Arsenic	ug/L	MW-36	09/13/2023	ND	1.0000	1.3500
Arsenic	ug/L	MW-36	05/29/2024	ND	2.0000	1.3500
Arsenic	ug/L	MW-36	10/15/2024	ND	4.0000	1.3500
Arsenic	ug/L	MW-36	04/16/2025	ND	2.0000	1.3500
Arsenic	ug/L	MW-36	10/27/2025		4.5000 *	1.3500
Chromium	ug/L	MW-36	08/21/2009	ND	20.0000	5.0000
Chromium	ug/L	MW-36	12/15/2009	ND	20.0000	5.0000
Chromium	ug/L	MW-36	02/18/2010	ND	20.0000	5.0000
Chromium	ug/L	MW-36	03/11/2010	ND	20.0000	5.0000
Chromium	ug/L	MW-36	05/27/2010	ND	20.0000	5.0000
Chromium	ug/L	MW-36	08/31/2010	ND	20.0000	5.0000
Chromium	ug/L	MW-36	02/16/2011	ND	20.0000	5.0000
Chromium	ug/L	MW-36	07/07/2011	ND	20.0000	5.0000
Chromium	ug/L	MW-36	10/27/2011	ND	20.0000	5.0000
Chromium	ug/L	MW-36	04/26/2012		176.0000 *	5.0000
Chromium	ug/L	MW-36	10/09/2012	ND	20.0000	5.0000
Chromium	ug/L	MW-36	02/20/2013	ND	20.0000	5.0000
Chromium	ug/L	MW-36	10/03/2013	ND	10.0000	5.0000
Chromium	ug/L	MW-36	04/22/2014	ND	10.0000	5.0000
Chromium	ug/L	MW-36	10/14/2014	ND	20.0000	5.0000
Chromium	ug/L	MW-36	05/12/2015	ND	3.0000	5.0000
Chromium	ug/L	MW-36	07/29/2015	ND	5.0000	5.0000
Chromium	ug/L	MW-36	02/15/2016	ND	5.0000	5.0000
Chromium	ug/L	MW-36	10/31/2016	ND	2.0000	5.0000
Chromium	ug/L	MW-36	03/27/2017	ND	5.0000	5.0000
Chromium	ug/L	MW-36	11/13/2017	ND	5.0000	5.0000
Chromium	ug/L	MW-36	06/06/2018		8.3800 *	5.0000
Chromium	ug/L	MW-36	11/26/2018	ND	5.0000	5.0000
Chromium	ug/L	MW-36	03/18/2019	ND	2.0000	5.0000
Chromium	ug/L	MW-36	12/02/2019	ND	5.0000	5.0000
Chromium	ug/L	MW-36	03/30/2020	ND	5.0000	5.0000
Chromium	ug/L	MW-36	11/17/2020	ND	5.0000	5.0000

* - 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
are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result	Pred. Limit
Chromium	ug/L	MW-36	05/06/2021	ND	5.0000	5.0000
Chromium	ug/L	MW-36	10/07/2021	ND	5.0000	5.0000
Chromium	ug/L	MW-36	04/06/2022	ND	5.0000	5.0000
Chromium	ug/L	MW-36	08/23/2022	ND	5.0000	5.0000
Chromium	ug/L	MW-36	03/08/2023	ND	4.7500	5.0000
Chromium	ug/L	MW-36	09/13/2023	ND	2.5700	5.0000
Chromium	ug/L	MW-36	05/29/2024		44.9000 *	5.0000
Chromium	ug/L	MW-36	10/15/2024	ND	8.0000	5.0000
Chromium	ug/L	MW-36	04/16/2025		1.3000	5.0000
Chromium	ug/L	MW-36	10/27/2025		6.4000 *	5.0000
Cobalt	ug/L	MW-36	08/21/2009		332.0000 *	1.7300
Cobalt	ug/L	MW-36	12/15/2009		97.2000 *	1.7300
Cobalt	ug/L	MW-36	02/18/2010		96.2000 *	1.7300
Cobalt	ug/L	MW-36	03/11/2010		35.0000 *	1.7300
Cobalt	ug/L	MW-36	05/27/2010		65.1000 *	1.7300
Cobalt	ug/L	MW-36	08/31/2010		164.0000 *	1.7300
Cobalt	ug/L	MW-36	02/16/2011		45.4500 *	1.7300
Cobalt	ug/L	MW-36	07/07/2011		78.0000 *	1.7300
Cobalt	ug/L	MW-36	10/27/2011		10.8000 *	1.7300
Cobalt	ug/L	MW-36	04/26/2012		652.0000 *	1.7300
Cobalt	ug/L	MW-36	10/09/2012		31.0000 *	1.7300
Cobalt	ug/L	MW-36	02/20/2013		41.3000 *	1.7300
Cobalt	ug/L	MW-36	10/03/2013		70.2000 *	1.7300
Cobalt	ug/L	MW-36	04/22/2014		47.2000 *	1.7300
Cobalt	ug/L	MW-36	10/14/2014		67.5000 *	1.7300
Cobalt	ug/L	MW-36	05/12/2015		92.0500 *	1.7300
Cobalt	ug/L	MW-36	07/29/2015		6.7100 *	1.7300
Cobalt	ug/L	MW-36	02/15/2016		4.2200 *	1.7300
Cobalt	ug/L	MW-36	10/31/2016		9.5300 *	1.7300
Cobalt	ug/L	MW-36	03/27/2017		1.4000	1.7300
Cobalt	ug/L	MW-36	11/13/2017		1.1400	1.7300
Cobalt	ug/L	MW-36	06/06/2018		8.2100 *	1.7300
Cobalt	ug/L	MW-36	11/26/2018	ND	1.0000	1.7300
Cobalt	ug/L	MW-36	03/18/2019		13.9000 *	1.7300
Cobalt	ug/L	MW-36	12/02/2019		3.8500 *	1.7300
Cobalt	ug/L	MW-36	03/30/2020		0.7160	1.7300
Cobalt	ug/L	MW-36	11/17/2020	ND	0.5000	1.7300
Cobalt	ug/L	MW-36	05/06/2021		1.3300	1.7300
Cobalt	ug/L	MW-36	10/07/2021		1.1600	1.7300
Cobalt	ug/L	MW-36	04/06/2022		2.3100 *	1.7300
Cobalt	ug/L	MW-36	08/23/2022		2.5300 *	1.7300
Cobalt	ug/L	MW-36	03/08/2023		1.5850	1.7300
Cobalt	ug/L	MW-36	09/13/2023		3.8700 *	1.7300
Cobalt	ug/L	MW-36	05/29/2024		24.6000 *	1.7300
Cobalt	ug/L	MW-36	10/15/2024		0.8000	1.7300
Cobalt	ug/L	MW-36	04/16/2025		1.2000	1.7300
Cobalt	ug/L	MW-36	10/27/2025		13.3000 *	1.7300
Nickel	ug/L	MW-36	08/21/2009		199.0000 *	10.7500
Nickel	ug/L	MW-36	12/15/2009		78.1000 *	10.7500
Nickel	ug/L	MW-36	02/18/2010		95.4000 *	10.7500
Nickel	ug/L	MW-36	03/11/2010	ND	50.0000	10.7500
Nickel	ug/L	MW-36	05/27/2010		52.7000 *	10.7500
Nickel	ug/L	MW-36	08/31/2010		188.0000 *	10.7500
Nickel	ug/L	MW-36	02/16/2011		72.9500 *	10.7500
Nickel	ug/L	MW-36	07/07/2011		77.5000 *	10.7500
Nickel	ug/L	MW-36	10/27/2011	ND	50.0000	10.7500
Nickel	ug/L	MW-36	04/26/2012		744.0000 *	10.7500
Nickel	ug/L	MW-36	10/09/2012		54.7000 *	10.7500
Nickel	ug/L	MW-36	02/20/2013		68.8000 *	10.7500
Nickel	ug/L	MW-36	10/03/2013		71.2000 *	10.7500
Nickel	ug/L	MW-36	04/22/2014		58.6000 *	10.7500
Nickel	ug/L	MW-36	10/14/2014	ND	10.0000	10.7500
Nickel	ug/L	MW-36	05/12/2015		62.6000 *	10.7500
Nickel	ug/L	MW-36	07/29/2015		9.4300	10.7500
Nickel	ug/L	MW-36	02/15/2016		6.3900	10.7500
Nickel	ug/L	MW-36	10/31/2016		22.5000 *	10.7500
Nickel	ug/L	MW-36	03/27/2017	ND	2.0000	10.7500
Nickel	ug/L	MW-36	11/13/2017	ND	3.0000	10.7500
Nickel	ug/L	MW-36	06/06/2018		10.7000	10.7500
Nickel	ug/L	MW-36	11/26/2018	ND	5.0000	10.7500
Nickel	ug/L	MW-36	03/18/2019		4.1050	10.7500

* - 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
Nickel	ug/L	MW-36	12/02/2019	ND	3.0000	10.7500
Nickel	ug/L	MW-36	03/30/2020	ND	3.0000	10.7500
Nickel	ug/L	MW-36	11/17/2020	ND	5.0000	10.7500
Nickel	ug/L	MW-36	05/06/2021	ND	4.1500	10.7500
Nickel	ug/L	MW-36	10/07/2021	ND	4.5000	10.7500
Nickel	ug/L	MW-36	04/06/2022		6.3300	10.7500
Nickel	ug/L	MW-36	08/23/2022		5.3500	10.7500
Nickel	ug/L	MW-36	03/08/2023		8.0700	10.7500
Nickel	ug/L	MW-36	09/13/2023		18.3000 *	10.7500
Nickel	ug/L	MW-36	05/29/2024		122.0000 *	10.7500
Nickel	ug/L	MW-36	10/15/2024		6.6000	10.7500
Nickel	ug/L	MW-36	04/16/2025		6.2000	10.7500
Nickel	ug/L	MW-36	10/27/2025		13.7000 *	10.7500
Selenium	ug/L	MW-36	08/21/2009	ND	5.0000	3.2450
Selenium	ug/L	MW-36	12/15/2009		5.4400 *	3.2450
Selenium	ug/L	MW-36	02/18/2010	ND	5.0000	3.2450
Selenium	ug/L	MW-36	03/11/2010	ND	5.0000	3.2450
Selenium	ug/L	MW-36	05/27/2010	ND	5.0000	3.2450
Selenium	ug/L	MW-36	08/31/2010	ND	5.0000	3.2450
Selenium	ug/L	MW-36	02/16/2011	ND	5.0000	3.2450
Selenium	ug/L	MW-36	07/07/2011	ND	5.0000	3.2450
Selenium	ug/L	MW-36	10/27/2011	ND	5.0000	3.2450
Selenium	ug/L	MW-36	04/26/2012		13.2000 *	3.2450
Selenium	ug/L	MW-36	10/09/2012		5.4100 *	3.2450
Selenium	ug/L	MW-36	02/20/2013	ND	5.0000	3.2450
Selenium	ug/L	MW-36	10/03/2013		5.1700 *	3.2450
Selenium	ug/L	MW-36	04/22/2014	ND	1.0000	3.2450
Selenium	ug/L	MW-36	10/14/2014	ND	5.0000	3.2450
Selenium	ug/L	MW-36	05/12/2015	ND	5.0000	3.2450
Selenium	ug/L	MW-36	07/29/2015	ND	5.0000	3.2450
Selenium	ug/L	MW-36	02/15/2016	ND	5.0000	3.2450
Selenium	ug/L	MW-36	10/31/2016	ND	3.0000	3.2450
Selenium	ug/L	MW-36	03/27/2017	ND	3.0000	3.2450
Selenium	ug/L	MW-36	11/13/2017	ND	3.0000	3.2450
Selenium	ug/L	MW-36	06/06/2018		3.2600 *	3.2450
Selenium	ug/L	MW-36	11/26/2018	ND	2.0000	3.2450
Selenium	ug/L	MW-36	03/18/2019	ND	2.5000	3.2450
Selenium	ug/L	MW-36	12/02/2019	ND	2.0000	3.2450
Selenium	ug/L	MW-36	03/30/2020	ND	3.0000	3.2450
Selenium	ug/L	MW-36	11/17/2020	ND	2.0000	3.2450
Selenium	ug/L	MW-36	05/06/2021	ND	2.1700	3.2450
Selenium	ug/L	MW-36	10/07/2021	ND	2.2650	3.2450
Selenium	ug/L	MW-36	04/06/2022	ND	1.9500	3.2450
Selenium	ug/L	MW-36	08/23/2022	ND	1.3100	3.2450
Selenium	ug/L	MW-36	03/08/2023	ND	2.0200	3.2450
Selenium	ug/L	MW-36	09/13/2023	ND	1.9900	3.2450
Selenium	ug/L	MW-36	05/29/2024	ND	5.0000	3.2450
Selenium	ug/L	MW-36	10/15/2024	ND	4.0000	3.2450
Selenium	ug/L	MW-36	04/16/2025	ND	2.0000	3.2450
Selenium	ug/L	MW-36	10/27/2025		6.2000 *	3.2450

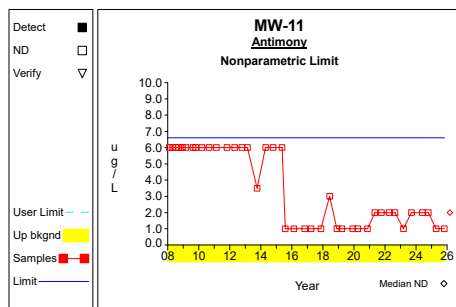
* - Significantly increased over background.

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

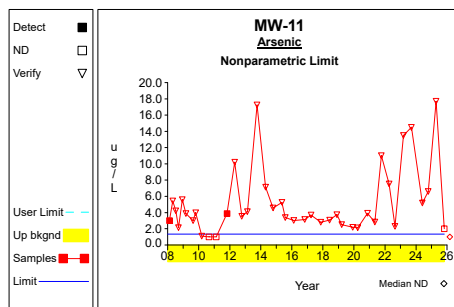
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

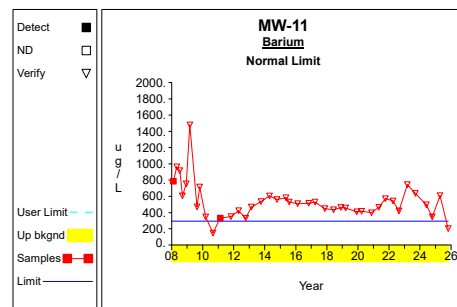
Up vs. Down Prediction Limits



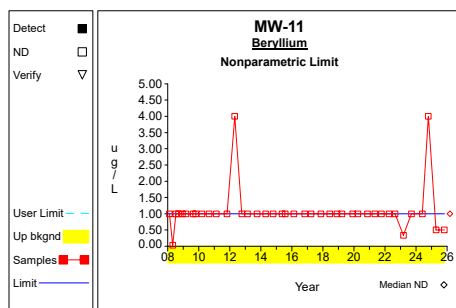
Graph 1



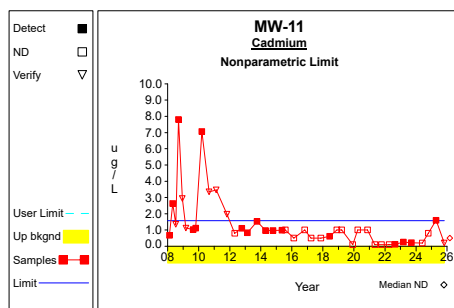
Graph 2



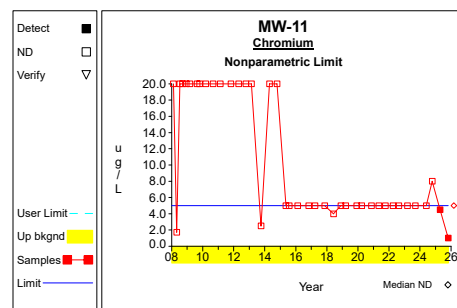
Graph 3



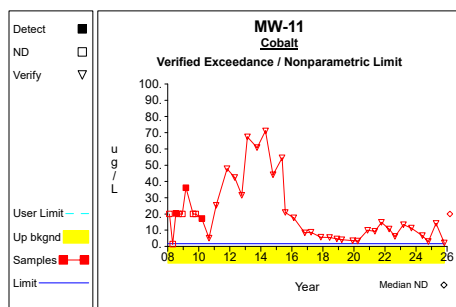
Graph 4



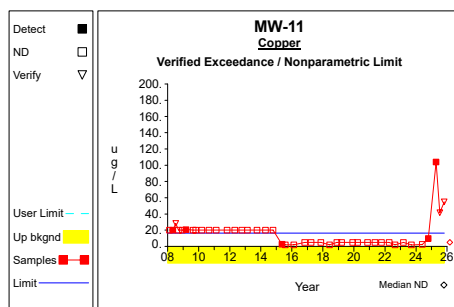
Graph 5



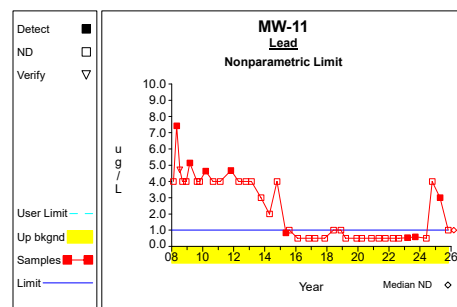
Graph 6



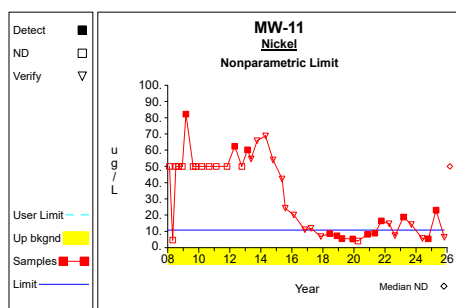
Graph 7



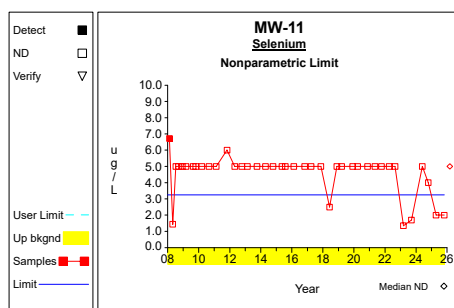
Graph 8



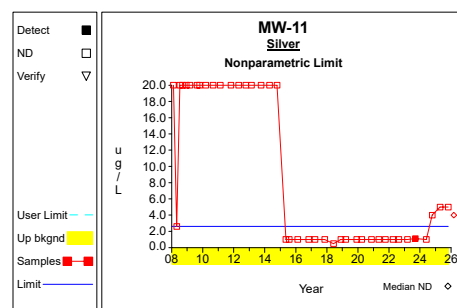
Graph 9



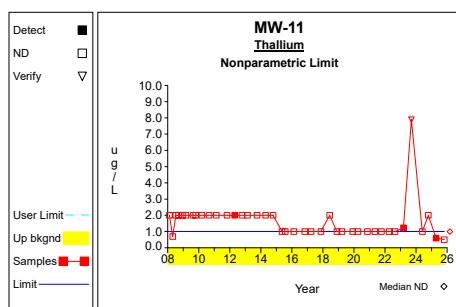
Graph 10



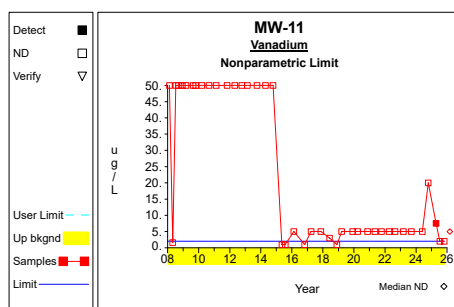
Graph 11



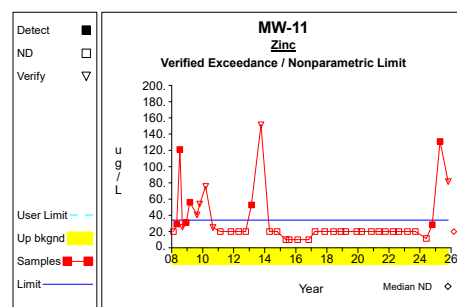
Graph 12



Graph 13

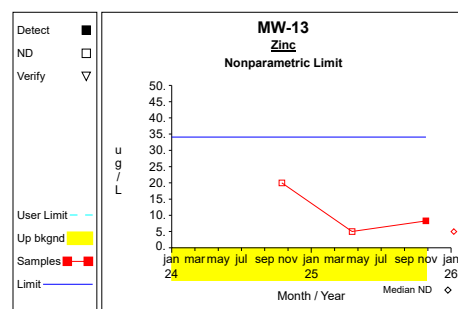
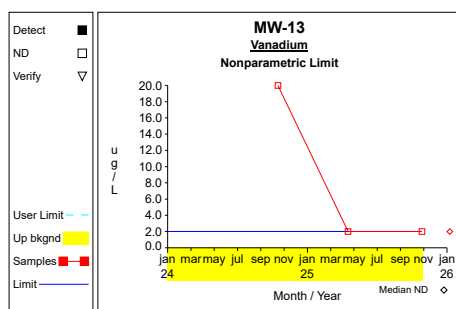
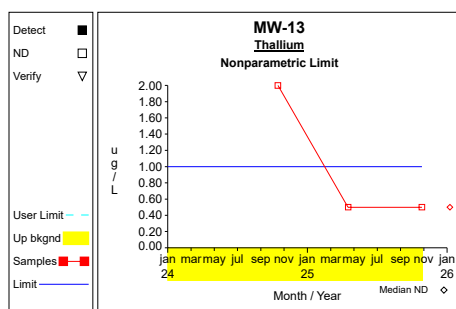
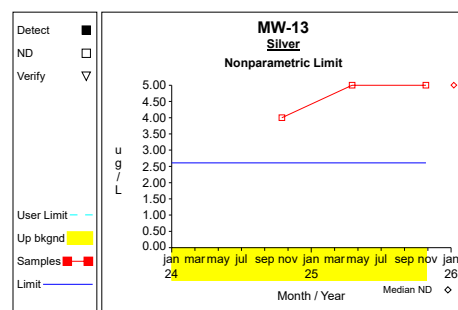
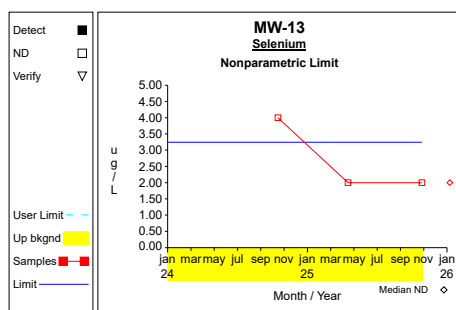
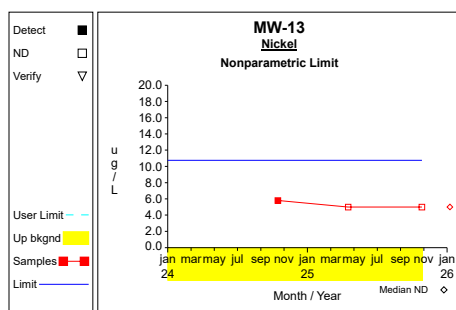
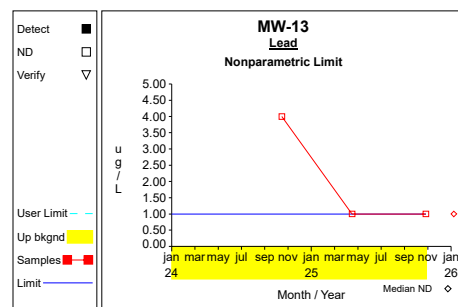
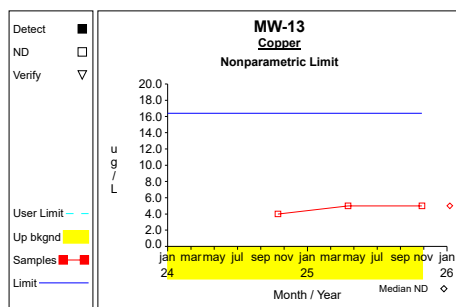
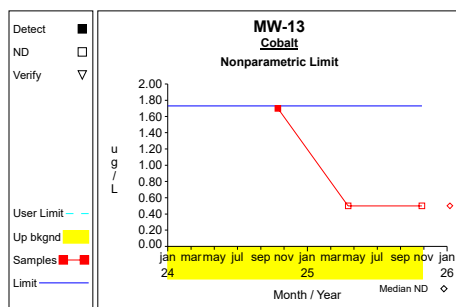
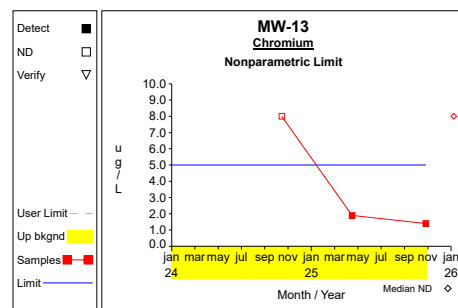
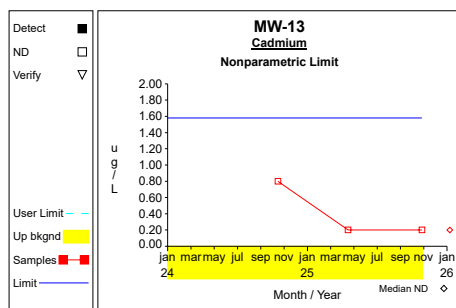
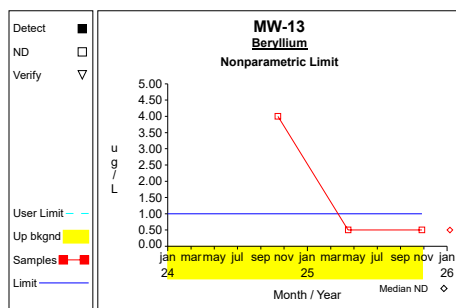
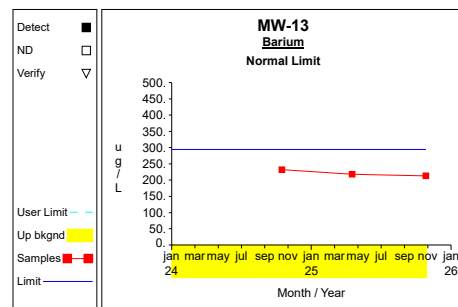
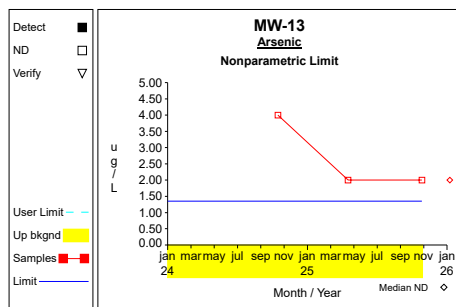
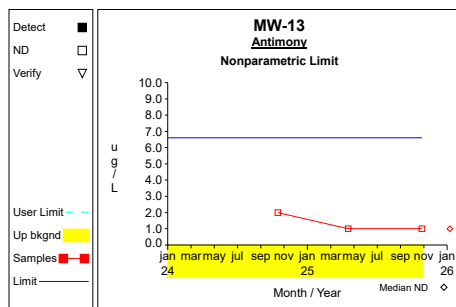


Graph 14

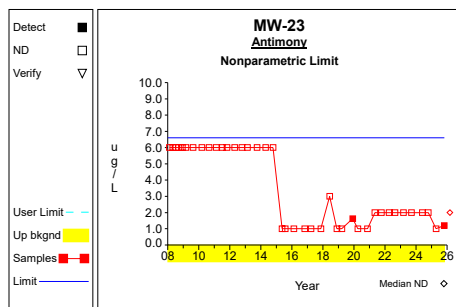


Graph 15

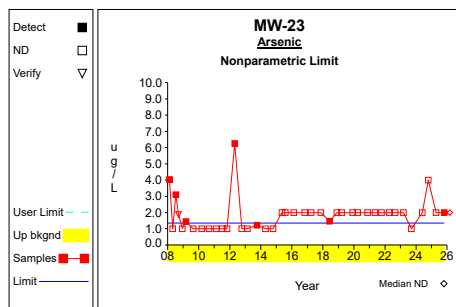
Up vs. Down Prediction Limits



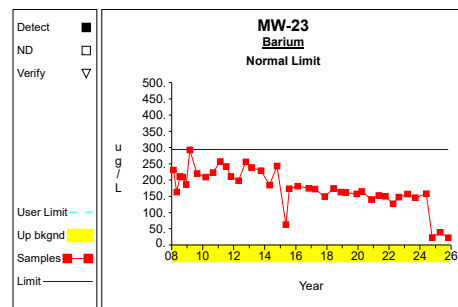
Up vs. Down Prediction Limits



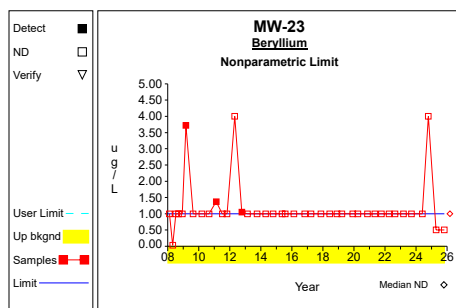
Graph 31



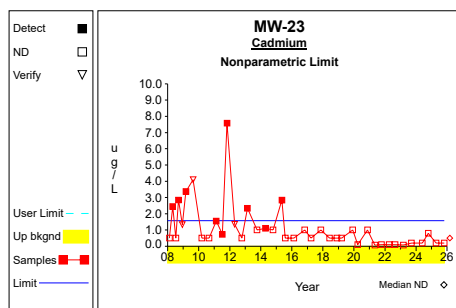
Graph 32



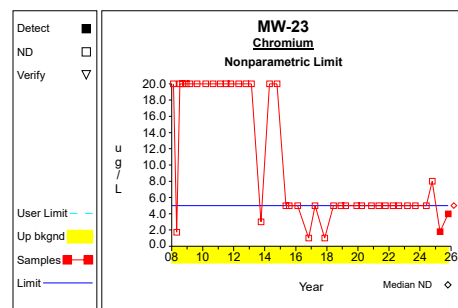
Graph 33



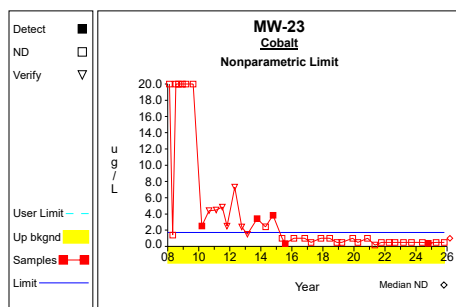
Graph 34



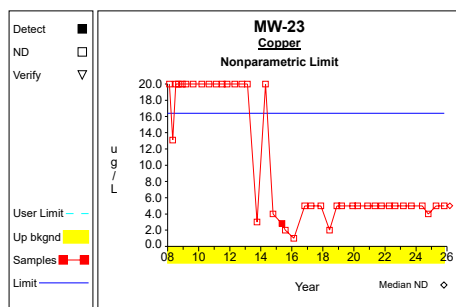
Graph 35



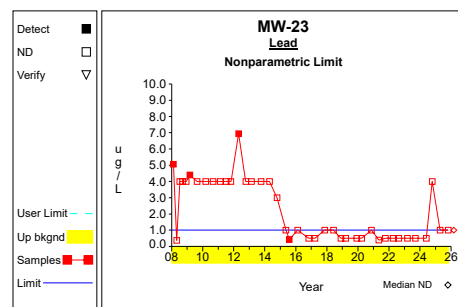
Graph 36



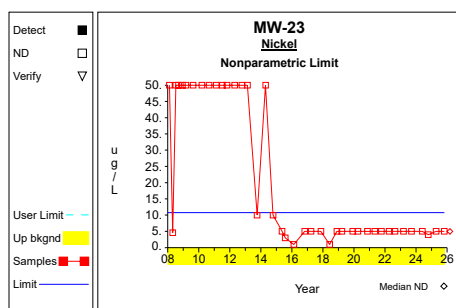
Graph 37



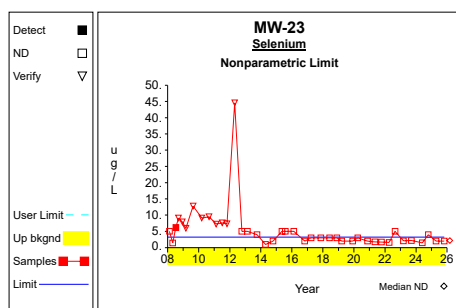
Graph 38



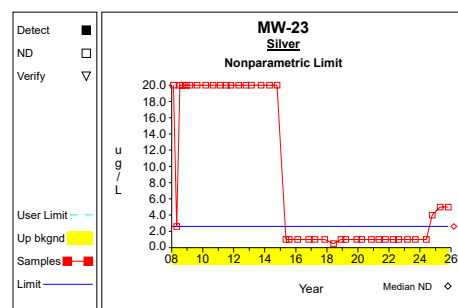
Graph 39



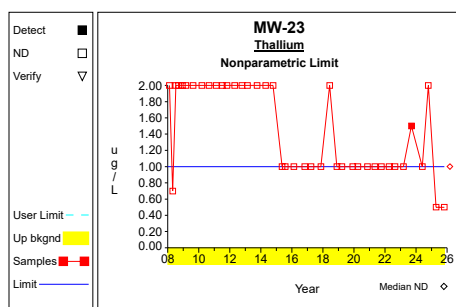
Graph 40



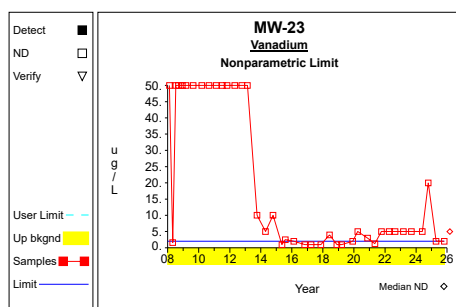
Graph 41



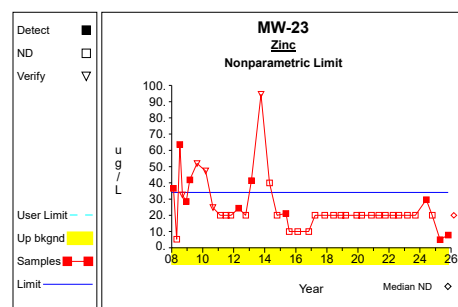
Graph 42



Graph 43

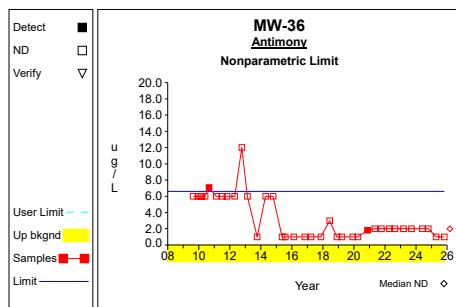


Graph 44

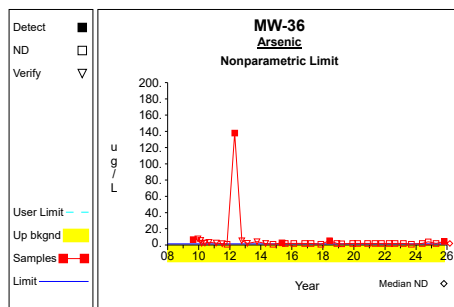


Graph 45

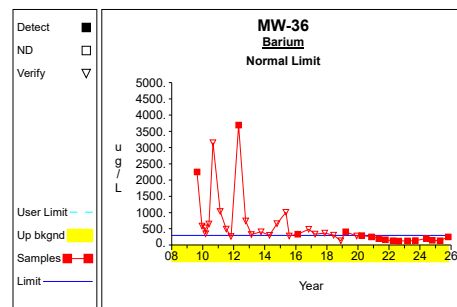
Up vs. Down Prediction Limits



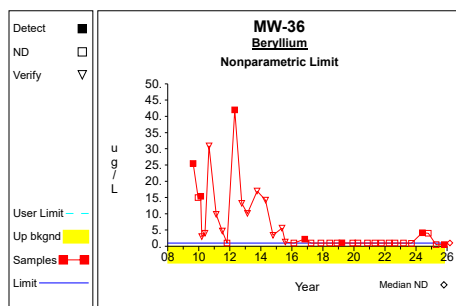
Graph 46



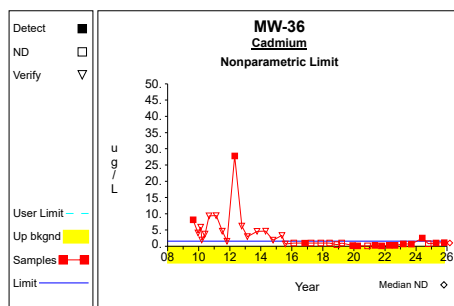
Graph 47



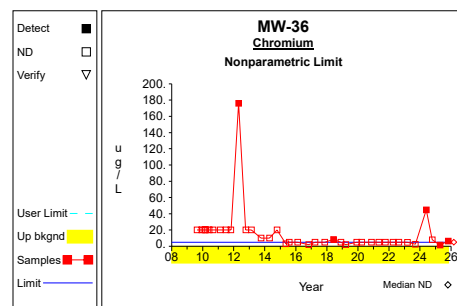
Graph 48



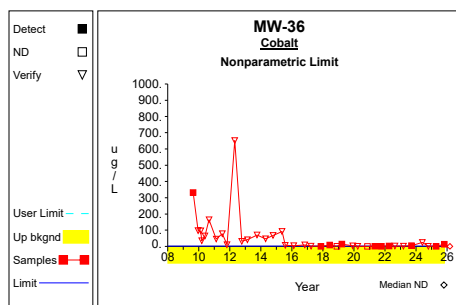
Graph 49



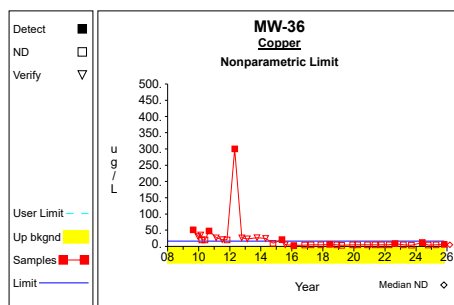
Graph 50



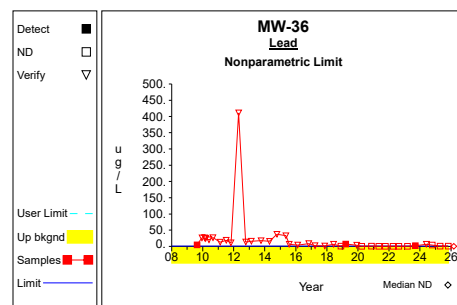
Graph 51



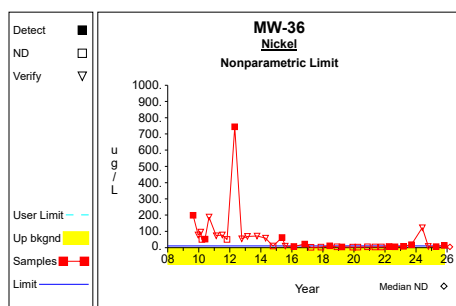
Graph 52



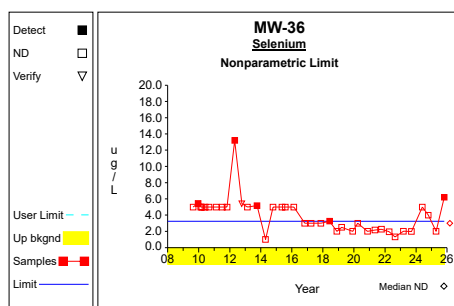
Graph 53



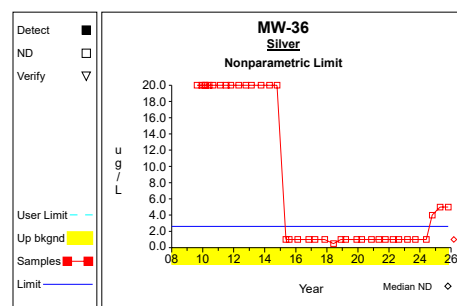
Graph 54



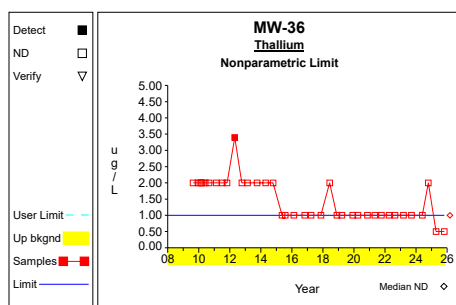
Graph 55



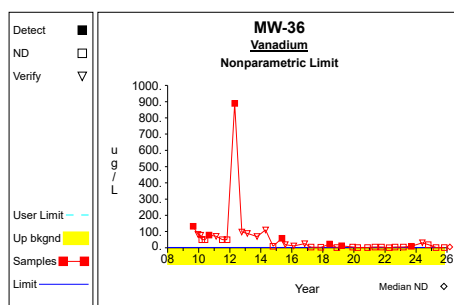
Graph 56



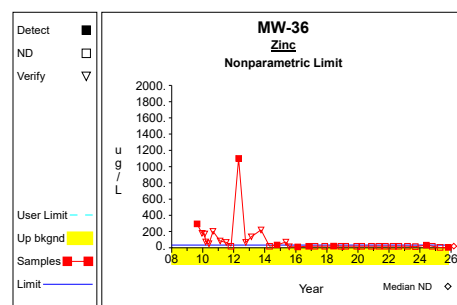
Graph 57



Graph 58

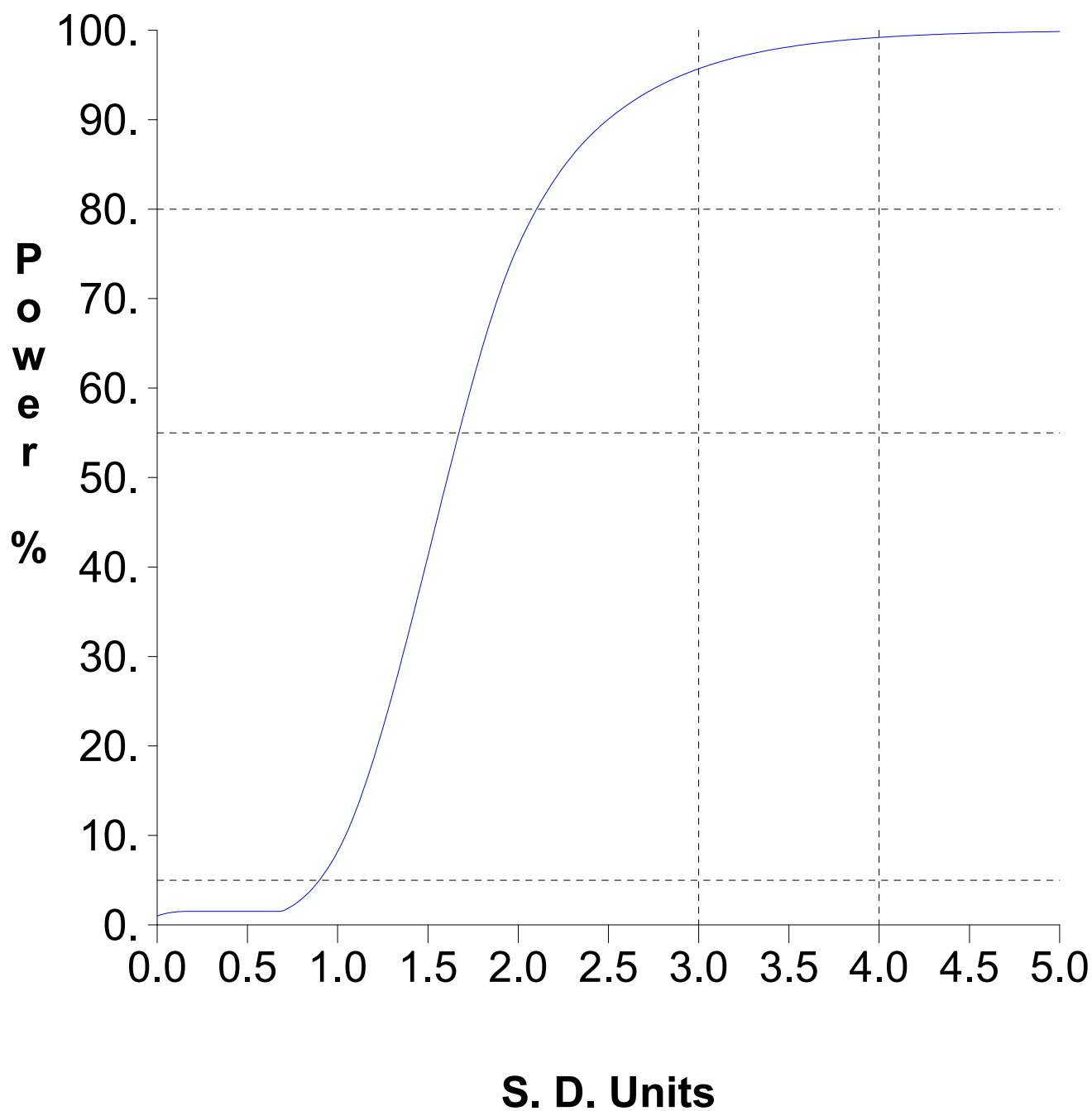


Graph 59



Graph 60

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



Attachment D

Summary Tables and Graphs for the Intrawell Comparisons

Table 1

**Summary Statistics and Intermediate Computations
for Combined Shewhart-CUSUM Control Charts**

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Antimony	ug/L	MW-11	36	4	40			1.0000	1.0000			3.5000	nonpar	.99	**
Arsenic	ug/L	MW-11	36	4	40	4.8763	3.8342	17.7000	2.0000	14.8244	7.0725	29.7985	normal		
Barium	ug/L	MW-11	35	4	40	563.0571	222.0084	608.0000	203.0000	563.0571	563.0571	2006.1116	normal		
Beryllium	ug/L	MW-11	34	4	40			0.5000	0.5000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-11	36	4	40	1.3638	1.7185	1.6000	0.2000	1.3638	1.3638	12.5342	normal		
Chromium	ug/L	MW-11	36	4	40			4.5000	1.0000			5.0000	nonpar	.99	**
Cobalt	ug/L	MW-11	36	4	40	22.2667	18.8248	14.2000	2.1000	22.2667	22.2667	144.6276	normal		
Copper	ug/L	MW-11	36	5	41			41.5000	54.9000			28.3000	nonpar	.99	**
Lead	ug/L	MW-11	36	4	40			3.0000	1.0000			7.4200	nonpar	.99	**
Nickel	ug/L	MW-11	37	4	41	35.9404	22.6464	23.1000	6.3000	35.9404	35.9404	183.1417	normal		
Selenium	ug/L	MW-11	34	4	40			2.0000	2.0000			6.7200	nonpar	.99	**
Silver	ug/L	MW-11	36	4	40			5.0000	5.0000			2.6100	nonpar	.99	**
Thallium	ug/L	MW-11	35	4	40			0.6000	0.5000			2.0000	nonpar	.99	**
Vanadium	ug/L	MW-11	36	5	41			2.0000	2.0000			5.0000	nonpar	.99	**
Zinc	ug/L	MW-11	36	4	40	32.2778	28.9600	131.0000	81.5000	109.2800	136.7823	220.5175	normal		
Antimony	ug/L	MW-13	3	0	3										*
Arsenic	ug/L	MW-13	3	0	3										*
Barium	ug/L	MW-13	3	0	3										*
Beryllium	ug/L	MW-13	3	0	3										*
Cadmium	ug/L	MW-13	3	0	3										*
Chromium	ug/L	MW-13	3	0	3										*
Cobalt	ug/L	MW-13	3	0	3										*
Copper	ug/L	MW-13	3	0	3										*
Lead	ug/L	MW-13	3	0	3										*
Nickel	ug/L	MW-13	3	0	3										*
Selenium	ug/L	MW-13	3	0	3										*
Silver	ug/L	MW-13	3	0	3										*
Thallium	ug/L	MW-13	3	0	3										*
Vanadium	ug/L	MW-13	3	0	3										*
Zinc	ug/L	MW-13	3	0	3										*
Antimony	ug/L	MW-15R	30	5	35			1.0000	1.0000			2.0000	nonpar	.99	**
Arsenic	ug/L	MW-15R	30	5	35			7.7000	3.5000			4.5000	nonpar	.99	**
Barium	ug/L	MW-15R	30	5	35	182.0333	65.3884	602.0000	321.0000	817.8093	536.8093	607.0582	normal		
Beryllium	ug/L	MW-15R	29	5	35			0.5000	0.5000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-15R	30	5	35	0.3360	0.3907	0.2000	0.3000	0.3360	0.3360	2.8758	normal		
Chromium	ug/L	MW-15R	30	5	35			1.6000	1.6000			5.0000	nonpar	.99	**
Cobalt	ug/L	MW-15R	30	5	35			2.6000	2.1000			2.0000	nonpar	.99	**
Copper	ug/L	MW-15R	30	5	35			5.0000	5.0000			5.0000	nonpar	.99	**
Lead	ug/L	MW-15R	30	5	35			1.0000	1.0000			0.5180	nonpar	.99	**
Nickel	ug/L	MW-15R	30	5	35			5.0000	5.0000			5.0000	nonpar	.99	**
Selenium	ug/L	MW-15R	30	5	35			2.0000	2.0000			5.0000	nonpar	.99	**
Silver	ug/L	MW-15R	30	5	35			5.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-15R	30	5	35			0.5000	0.5000			1.0000	nonpar	.99	**
Vanadium	ug/L	MW-15R	30	5	35			2.0000	2.0000			5.0000	nonpar	.99	**
Zinc	ug/L	MW-15R	30	5	35	33.7833	37.4957	11.7000	5.0000	33.7833	33.7833	277.5053	normal		
Antimony	ug/L	MW-19	36	4	40			1.0000	1.0000			2.0000	nonpar	.99	**

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.

N(tot) = All independent measurements for that constituent and well.

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

Conf = confidence level for passing initial test or one of two verification resamples (nonparametric test only).

* - Insufficient Data.

** - Detection Frequency < 25%.

*** - Zero Variance.

Table 1

**Summary Statistics and Intermediate Computations
for Combined Shewhart-CUSUM Control Charts**

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Arsenic	ug/L	MW-19	34	4	40	1.8294	1.5171	2.0000	3.5000	1.8294	2.3622	11.6906	normal		
Barium	ug/L	MW-19	36	4	41	910.8889	250.9707	1240.0000	1040.0000	1051.7720	992.6551	2542.1982	normal		
Beryllium	ug/L	MW-19	34	4	40			0.5000	0.5000			1.6100	nonpar	.99	**
Cadmium	ug/L	MW-19	36	4	40	3.0186	7.6119	0.3000	0.2000	3.0186	3.0186	52.4959	normal		
Chromium	ug/L	MW-19	36	4	40			2.2000	1.3000			39.4000	nonpar	.99	**
Cobalt	ug/L	MW-19	36	4	40	16.7161	6.5907	22.6000	25.6000	17.6570	21.5978	59.5557	normal		
Copper	ug/L	MW-19	36	4	40			5.0000	5.0000			23.2000	nonpar	.99	**
Lead	ug/L	MW-19	36	4	40	3.2083	5.1049	1.0000	1.0000	3.2083	3.2083	36.3901	normal		
Nickel	ug/L	MW-19	36	4	41	57.4208	14.4156	52.9000	57.9000	57.4208	57.4208	151.1220	normal		
Selenium	ug/L	MW-19	34	4	40			2.0000	2.0000			5.0000	nonpar	.99	**
Silver	ug/L	MW-19	36	4	40			5.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-19	34	4	40			0.5000	0.5000			2.0000	nonpar	.99	**
Vanadium	ug/L	MW-19	36	4	40			2.0000	2.0000			53.2000	nonpar	.99	**
Zinc	ug/L	MW-19	36	4	40	39.5000	34.4456	5.8000	14.1000	39.5000	39.5000	263.3962	normal		
Antimony	ug/L	MW-20	33	4	37			1.0000	1.0000			6.4500	nonpar	.99	**
Arsenic	ug/L	MW-20	31	4	37	81.6452	28.2886	71.2000	86.0000	81.6452	81.6452	265.5212	normal		
Barium	ug/L	MW-20	32	4	37	3274.5313	1006.7973	1780.0000	2060.0000	3274.5313	3274.5313	9818.7140	normal		
Beryllium	ug/L	MW-20	30	4	37			0.5000	0.5000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-20	33	4	37	1.4612	2.7129	0.2000	0.2000	1.4612	1.4612	19.0953	normal		
Chromium	ug/L	MW-20	33	4	37			1.5000	1.7000			24.2000	nonpar	.99	**
Cobalt	ug/L	MW-20	33	4	37	17.4877	8.5210	3.6000	6.7000	17.4877	17.4877	72.8744	normal		
Copper	ug/L	MW-20	33	4	37			5.0000	5.0000			33.4000	nonpar	.99	**
Lead	ug/L	MW-20	33	4	37	3.2270	5.5994	1.0000	1.0000	3.2270	3.2270	39.6228	normal		
Nickel	ug/L	MW-20	33	4	37	71.6303	42.0369	9.5000	28.0000	71.6303	71.6303	344.8700	normal		
Selenium	ug/L	MW-20	30	4	37			2.0000	2.0000			5.0000	nonpar	.99	**
Silver	ug/L	MW-20	32	4	37			5.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-20	33	4	37			0.5000	0.5000			2.0000	nonpar	.99	**
Vanadium	ug/L	MW-20	33	4	37			2.2000	2.5000			4.6000	nonpar	.99	**
Zinc	ug/L	MW-20	33	4	37	72.7606	90.4618	5.0000	11.2000	72.7606	72.7606	660.7625	normal		
Antimony	ug/L	MW-21	32	4	36			1.0000	1.0000			2.0000	nonpar	.99	**
Arsenic	ug/L	MW-21	31	4	36	1.6079	0.9981	2.0000	13.3000	3.5984	14.5419	8.0957	normal		
Barium	ug/L	MW-21	31	4	36	951.4839	279.3301	1050.0000	634.0000	951.4839	951.4839	2767.1298	normal		
Beryllium	ug/L	MW-21	30	4	36			0.5000	0.5000			1.2300	nonpar	.99	**
Cadmium	ug/L	MW-21	32	4	36	0.9664	2.7210	0.2000	0.2000	0.9664	0.9664	18.6526	normal		
Chromium	ug/L	MW-21	31	4	36			1.4000	1.6000			68.5000	nonpar	.99	**
Cobalt	ug/L	MW-21	30	4	36	9.3770	9.4157	19.0000	6.1000	11.9383	9.3770	70.5787	normal		
Copper	ug/L	MW-21	31	4	36			5.0000	5.0000			21.1000	nonpar	.99	**
Lead	ug/L	MW-21	31	4	36			1.0000	1.0000			9.3000	nonpar	.99	**
Nickel	ug/L	MW-21	32	4	36	43.4006	35.0463	18.0000	8.3000	43.4006	43.4006	271.2016	normal		
Selenium	ug/L	MW-21	30	4	36			2.0000	2.0000			13.2000	nonpar	.99	**
Silver	ug/L	MW-21	32	4	36			5.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-21	32	4	36			0.5000	0.5000			2.3000	nonpar	.99	**
Vanadium	ug/L	MW-21	32	4	36			2.0000	2.0000			409.0000	nonpar	.99	**
Zinc	ug/L	MW-21	32	4	36	52.5094	84.0728	5.0000	5.0000	52.5094	52.5094	598.9828	normal		
Antimony	ug/L	MW-22	33	3	38			5.6000	6.6000			6.5100	nonpar	.99	**
Arsenic	ug/L	MW-22	33	4	38			2.0000	2.0000			1.3500	nonpar	.99	**

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.

N(tot) = All independent measurements for that constituent and well.

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

Conf = confidence level for passing initial test or one of two verification resamples (nonparametric test only).

* - Insufficient Data.

** - Detection Frequency < 25%.

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Barium	ug/L	MW-22	34	4	38	246.6618	19.4666	283.0000	229.0000	268.4000	246.6618	373.1950	normal	.99	**
Beryllium	ug/L	MW-22	32	4	38			0.5000	0.5000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-22	34	4	38			0.2000	0.2000			1.5800	nonpar	.99	**
Chromium	ug/L	MW-22	33	4	38			1.7000	1.0000			5.0000	nonpar	.99	**
Cobalt	ug/L	MW-22	34	4	38			0.5000	0.5000			1.7300	nonpar	.99	**
Copper	ug/L	MW-22	34	4	38			5.0000	5.0000			16.4000	nonpar	.99	**
Lead	ug/L	MW-22	34	4	38			1.0000	1.0000			1.0000	nonpar	.99	**
Nickel	ug/L	MW-22	34	4	38			5.0000	5.0000			10.7500	nonpar	.99	**
Selenium	ug/L	MW-22	34	4	38			2.0000	2.0000			5.0000	nonpar	.99	**
Silver	ug/L	MW-22	34	4	38			5.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-22	34	4	38			0.5000	0.5000			1.0000	nonpar	.99	**
Vanadium	ug/L	MW-22	34	4	38			2.0000	2.0000			3.0000	nonpar	.99	**
Zinc	ug/L	MW-22	32	4	38			5.0000	5.6000			34.1000	nonpar	.99	**
Antimony	ug/L	MW-23	36	4	40			1.0000	1.2000			6.0000	nonpar	.99	**
Arsenic	ug/L	MW-23	36	4	40			2.0000	2.0000			6.2500	nonpar	.99	**
Barium	ug/L	MW-23	36	4	40	187.8139	45.1319	39.1000	22.9000	187.8139	187.8139	481.1711	normal	.99	**
Beryllium	ug/L	MW-23	33	4	40			0.5000	0.5000			1.3700	nonpar	.99	**
Cadmium	ug/L	MW-23	36	4	40	1.2107	1.4564	0.2000	0.2000	1.2107	1.2107	10.6771	normal	.99	**
Chromium	ug/L	MW-23	36	4	40			1.8000	4.0000			5.0000	nonpar	.99	**
Cobalt	ug/L	MW-23	36	4	40	1.7381	1.5093	0.5000	0.5000	1.7381	1.7381	11.5488	normal	.99	**
Copper	ug/L	MW-23	36	4	40			5.0000	5.0000			5.0000	nonpar	.99	**
Lead	ug/L	MW-23	36	4	40			1.0000	1.0000			6.9500	nonpar	.99	**
Nickel	ug/L	MW-23	36	4	40			5.0000	5.0000			5.0000	nonpar	.99	**
Selenium	ug/L	MW-23	35	4	40	4.5103	2.6291	2.0000	2.0000	4.5103	4.5103	21.5995	normal	.99	**
Silver	ug/L	MW-23	36	4	40			5.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-23	36	4	40			0.5000	0.5000			2.0000	nonpar	.99	**
Vanadium	ug/L	MW-23	36	4	40			2.0000	2.0000			5.0000	nonpar	.99	**
Zinc	ug/L	MW-23	36	4	40	27.4611	15.7616	5.0000	7.9000	27.4611	27.4611	129.9114	normal	.99	**
Antimony	ug/L	MW-24	9	0	9			2.0000	2.0000			2.0000	nonpar	.99	**
Arsenic	ug/L	MW-24	25	0	25	5.7052	12.1784	4.2000	9.5000			84.8648	normal	.99	**
Barium	ug/L	MW-24	22	0	22	604.5455	239.5157	779.0000	618.0000			2161.3977	normal	.99	**
Beryllium	ug/L	MW-24	8	0	9			1.0000	1.0000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-24	10	0	10	0.8180	0.2502	1.0000	0.9000			2.4443	normal	.99	*
Chromium	ug/L	MW-24	7	0	9										
Cobalt	ug/L	MW-24	12	0	13	6.3700	11.5480	2.9000	2.0000			81.4321	normal	.99	**
Copper	ug/L	MW-24	9	0	9			5.0000	5.0000			5.0000	nonpar	.99	**
Lead	ug/L	MW-24	8	0	9			0.5000	0.5000			0.5000	nonpar	.99	**
Nickel	ug/L	MW-24	18	0	18	19.9444	12.5577	31.3000	26.5000			101.5692	normal	.99	**
Selenium	ug/L	MW-24	9	0	9			5.0000	5.0000			5.0000	nonpar	.99	**
Silver	ug/L	MW-24	9	0	9			1.0000	1.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-24	9	0	9			1.0000	1.0000			1.0000	nonpar	.99	**
Vanadium	ug/L	MW-24	9	0	9			5.0000	5.0000			5.0000	nonpar	.99	**
Zinc	ug/L	MW-24	7	0	9									.99	*
Antimony	ug/L	MW-36	33	4	37			1.0000	1.0000			7.0800	nonpar	.99	**
Arsenic	ug/L	MW-36	32	4	37	2.7830	1.5451	2.0000	4.5000	2.7830	3.3412	12.8263	normal	.99	**
Barium	ug/L	MW-36	33	4	37	629.6818	824.1830	134.0000	251.0000	629.6818	629.6818	5986.8714	normal	.99	**

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.

N(tot) = All independent measurements for that constituent and well.

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

Conf = confidence level for passing initial test or one of two verification resamples (nonparametric test only).

* - Insufficient Data.

** - Detection Frequency < 25%.

*** - Zero Variance.

Table 1

**Summary Statistics and Intermediate Computations
for Combined Shewhart-CUSUM Control Charts**

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Beryllium	ug/L	MW-36	33	4	37	6.6428	9.8833	0.5000	0.5000	6.6428	6.6428	70.8840	normal		
Cadmium	ug/L	MW-36	33	4	37	3.3741	5.1441	1.0000	1.1000	3.3741	3.3741	36.8104	normal		
Chromium	ug/L	MW-36	32	4	37			1.3000	6.4000			8.3800	nonpar	.99	**
Cobalt	ug/L	MW-36	33	4	37	60.2564	124.7693	1.2000	13.3000	60.2564	60.2564	871.2567	normal		
Copper	ug/L	MW-36	33	4	37	22.4945	51.5615	5.0000	6.1000	22.4945	22.4945	357.6446	normal		
Lead	ug/L	MW-36	33	4	37	23.1656	70.4431	1.0000	1.0000	23.1656	23.1656	481.0459	normal		
Nickel	ug/L	MW-36	33	4	37	59.5220	132.5800	6.2000	13.7000	59.5220	59.5220	921.2922	normal		
Selenium	ug/L	MW-36	33	4	37			2.0000	6.2000			13.2000	nonpar	.99	**
Silver	ug/L	MW-36	33	4	37			5.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-36	33	4	37			0.5000	0.5000			3.4000	nonpar	.99	**
Vanadium	ug/L	MW-36	33	4	37	58.6197	153.9158	2.0000	2.0000	58.6197	58.6197	1059.0721	normal		
Zinc	ug/L	MW-36	33	4	37	94.3682	194.3750	5.0000	5.2000	94.3682	94.3682	1357.8059	normal		
Antimony	ug/L	MW-37R	13	3	16			1.0000	1.0000			1.5300	nonpar	.99	**
Arsenic	ug/L	MW-37R	13	3	16			2.0000	2.0000			1.2100	nonpar	.99	**
Barium	ug/L	MW-37R	14	3	17	823.6429	83.3174	687.0000	925.0000	823.6429	862.5120	1365.2058	normal		
Beryllium	ug/L	MW-37R	13	3	16			0.5000	0.5000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-37R	13	3	16	0.2397	0.0951	0.2000	0.2000	0.2397	0.2397	0.8578	normal		
Chromium	ug/L	MW-37R	13	3	16			1.8000	1.0000			5.0000	nonpar	.99	**
Cobalt	ug/L	MW-37R	13	3	16	0.8062	0.6372	0.5000	0.5000	0.8062	0.8062	4.9480	normal		
Copper	ug/L	MW-37R	13	3	16			5.0000	5.0000			3.7000	nonpar	.99	**
Lead	ug/L	MW-37R	14	3	17	1.4839	1.2107	1.0000	1.0000	1.4839	1.4839	9.3535	normal		
Nickel	ug/L	MW-37R	14	3	17	7.1907	2.4316	5.0000	5.0000	7.1907	7.1907	22.9964	normal		
Selenium	ug/L	MW-37R	14	3	17	16.0554	14.7053	50.3000	2.8000	39.2710	16.0554	111.6396	normal		
Silver	ug/L	MW-37R	13	3	16			5.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-37R	13	3	16			0.5000	0.5000			1.0000	nonpar	.99	**
Vanadium	ug/L	MW-37R	13	3	16			2.0000	2.0000			8.2900	nonpar	.99	**
Zinc	ug/L	MW-37R	13	3	16			5.0000	5.0000			20.0000	nonpar	.99	**
Antimony	ug/L	MW-38R	13	3	16			1.0000	1.0000			2.0000	nonpar	.99	**
Arsenic	ug/L	MW-38R	12	3	16			2.0000	2.0000			2.0000	nonpar	.99	**
Barium	ug/L	MW-38R	14	3	17	453.2143	166.7311	215.0000	247.0000	453.2143	453.2143	1536.9664	normal		
Beryllium	ug/L	MW-38R	13	3	16			0.5000	0.5000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-38R	14	3	17	0.2249	0.1152	0.2000	0.2000	0.2249	0.2249	0.9738	normal		
Chromium	ug/L	MW-38R	12	3	16			3.2000	3.2000			14.6000	nonpar	.99	**
Cobalt	ug/L	MW-38R	14	3	17	1.2680	1.2858	0.5000	0.6000	1.2680	1.2680	9.6260	normal		
Copper	ug/L	MW-38R	13	3	16			5.0000	5.0000			5.8800	nonpar	.99	**
Lead	ug/L	MW-38R	13	3	16			1.0000	1.0000			0.6840	nonpar	.99	**
Nickel	ug/L	MW-38R	13	3	17	7.3423	2.8826	5.0000	5.0000	7.3423	7.3423	26.0791	normal		
Selenium	ug/L	MW-38R	13	3	16	12.5077	12.4743	3.2000	5.6000	12.5077	12.5077	93.5909	normal		
Silver	ug/L	MW-38R	13	3	16			5.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-38R	13	3	16			0.5000	0.5000			1.0000	nonpar	.99	**
Vanadium	ug/L	MW-38R	13	3	16			2.0000	3.1000			1.5400	nonpar	.99	**
Zinc	ug/L	MW-38R	13	3	16			5.0000	5.0000			20.0000	nonpar	.99	**
Antimony	ug/L	MW-39	34	4	38			1.0000	1.0000			2.0000	nonpar	.99	**
Arsenic	ug/L	MW-39	32	4	38			2.0000	2.0000			2.0000	nonpar	.99	**
Barium	ug/L	MW-39	33	4	38	80.0576	16.6469	95.8000	97.5000	83.8720	88.8293	188.2626	normal		
Beryllium	ug/L	MW-39	32	4	38			0.5000	0.5000			1.0000	nonpar	.99	**

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.

N(tot) = All independent measurements for that constituent and well.

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

Conf = confidence level for passing initial test or one of two verification resamples (nonparametric test only).

* - Insufficient Data.

** - Detection Frequency < 25%.

*** - Zero Variance.

Table 1

**Summary Statistics and Intermediate Computations
for Combined Shewhart-CUSUM Control Charts**

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Cadmium	ug/L	MW-39	34	4	38			0.2000	0.2000			5.5100	nonpar	.99	**
Chromium	ug/L	MW-39	34	4	38			1.8000	2.1000			5.2800	nonpar	.99	**
Cobalt	ug/L	MW-39	34	4	38			0.5000	0.5000			15.6000	nonpar	.99	**
Copper	ug/L	MW-39	34	4	38			5.0000	5.0000			5.0000	nonpar	.99	**
Lead	ug/L	MW-39	34	4	38			1.0000	1.0000			11.5000	nonpar	.99	**
Nickel	ug/L	MW-39	34	4	38			5.0000	5.0000			5.0000	nonpar	.99	**
Selenium	ug/L	MW-39	33	4	38	77.7955	17.7657	71.5000	71.5000	77.7955	77.7955	193.2724	normal		
Silver	ug/L	MW-39	34	4	38			5.0000	5.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-39	34	4	38			0.5000	0.5000			3.3150	nonpar	.99	**
Vanadium	ug/L	MW-39	34	4	38			2.0000	2.0000			5.0000	nonpar	.99	**
Zinc	ug/L	MW-39	34	4	38			5.0000	5.0000			90.4000	nonpar	.99	**
Antimony	ug/L	MW-43	8	0	8			2.0000	2.0000			2.0000	nonpar	.99	**
Arsenic	ug/L	MW-43	14	0	14			6.8000	2.4000			6.8000	nonpar	.99	**
Barium	ug/L	MW-43	8	0	8	272.2500	74.9852	392.0000	319.0000			759.6540	normal		
Beryllium	ug/L	MW-43	8	0	8			1.0000	1.0000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-43	8	0	8	0.1961	0.0305	0.2000	0.2000			0.3945	normal		
Chromium	ug/L	MW-43	8	0	8	4.2500	1.4697	2.9000	1.1000			13.8030	normal		
Cobalt	ug/L	MW-43	16	0	16	10.9607	28.2491	2.5000	4.3000			194.5796	normal		
Copper	ug/L	MW-43	8	0	8			5.0000	5.0000			5.0000	nonpar	.99	**
Lead	ug/L	MW-43	8	0	8			0.5000	0.5000			0.5000	nonpar	.99	**
Nickel	ug/L	MW-43	8	0	8	5.0450	2.3090	6.4000	9.6000			20.0536	normal		
Selenium	ug/L	MW-43	10	0	10			5.0000	5.0000			27.5000	nonpar	.99	**
Silver	ug/L	MW-43	8	0	8			1.0000	1.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-43	8	0	8			1.0000	1.0000			1.0000	nonpar	.99	**
Vanadium	ug/L	MW-43	8	0	8	2.0850	0.2219	2.6000	2.2000			3.5272	normal		
Zinc	ug/L	MW-43	8	0	8			20.0000	9.5000			20.0000	nonpar	.99	**

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.

N(tot) = All independent measurements for that constituent and well.

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

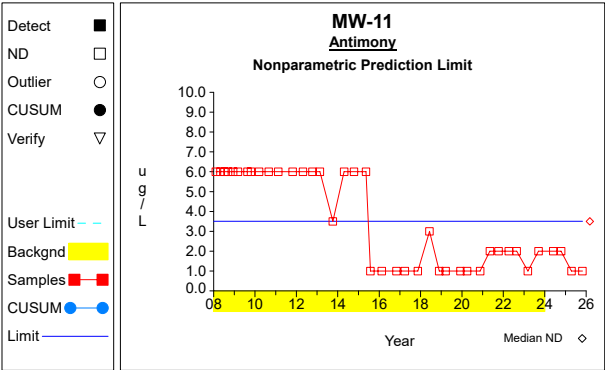
Conf = confidence level for passing initial test or one of two verification resamples (nonparametric test only).

* - Insufficient Data.

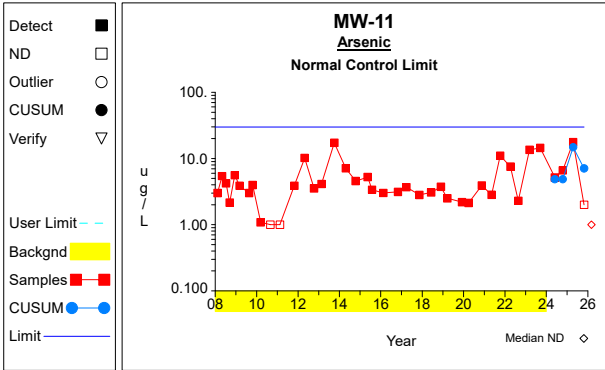
** - Detection Frequency < 25%.

*** - Zero Variance.

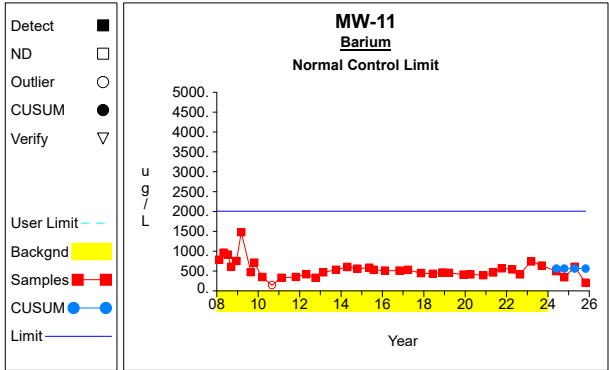
Intra-Well Control Charts / Prediction Limits



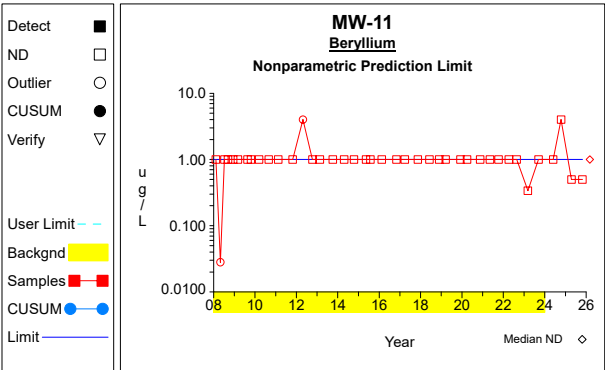
Graph 1



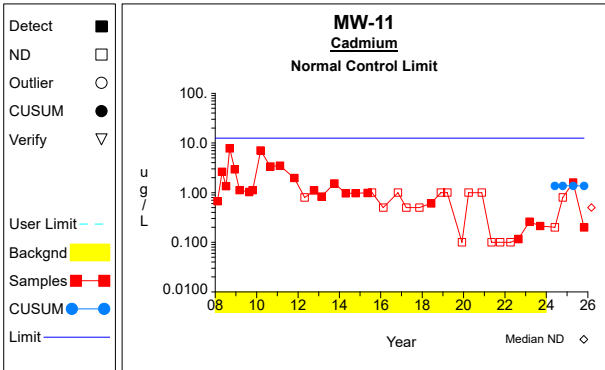
Graph 2



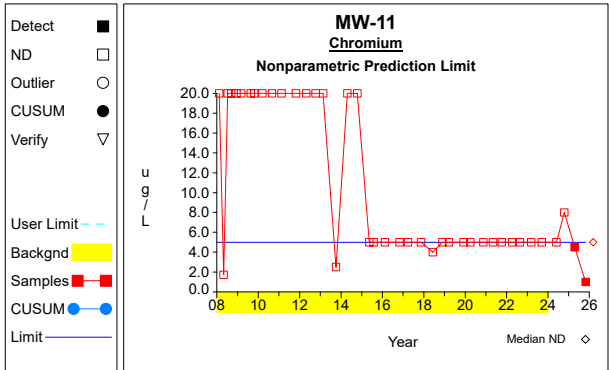
Graph 3



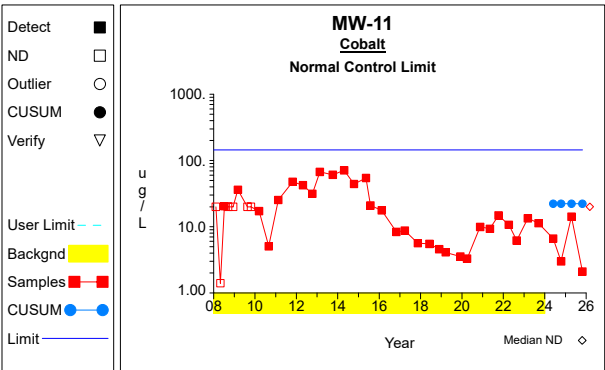
Graph 4



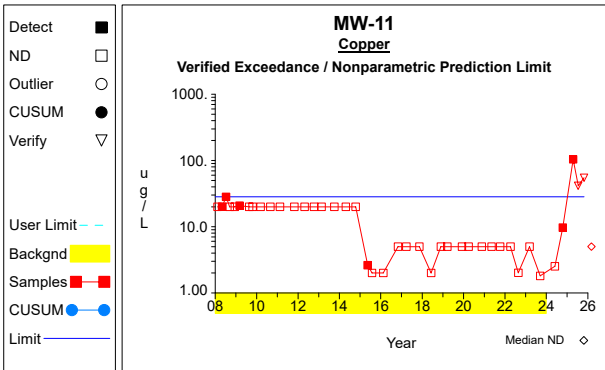
Graph 5



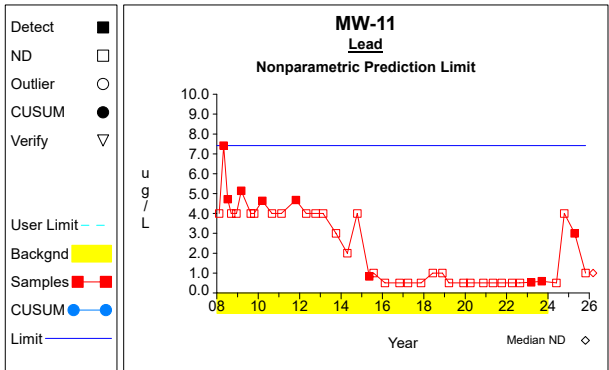
Graph 6



Graph 7

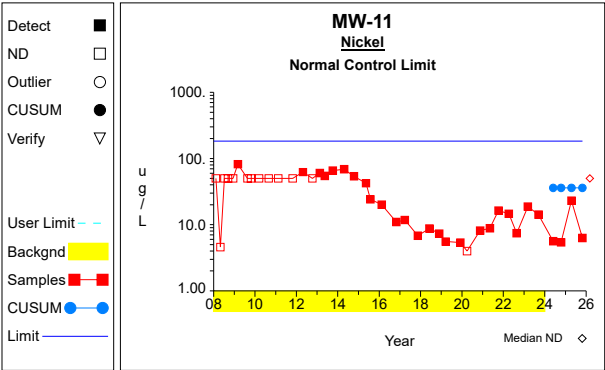


Graph 8

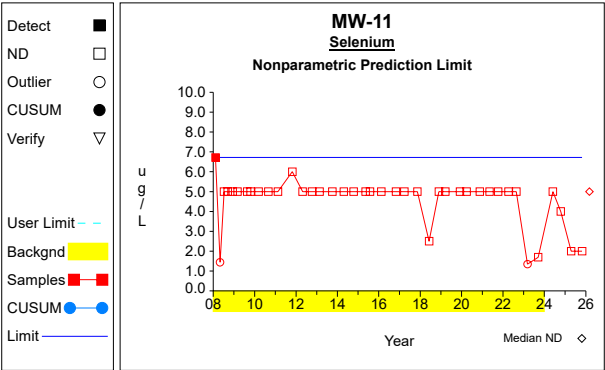


Graph 9

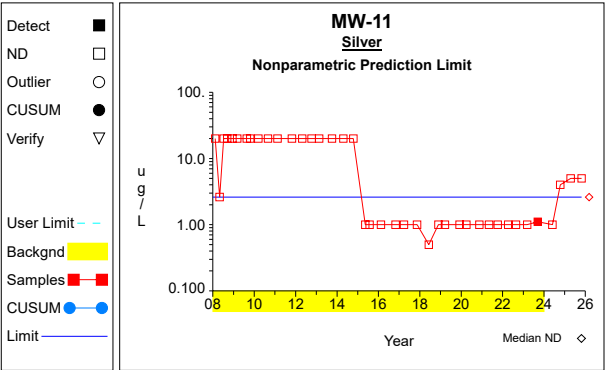
Intra-Well Control Charts / Prediction Limits



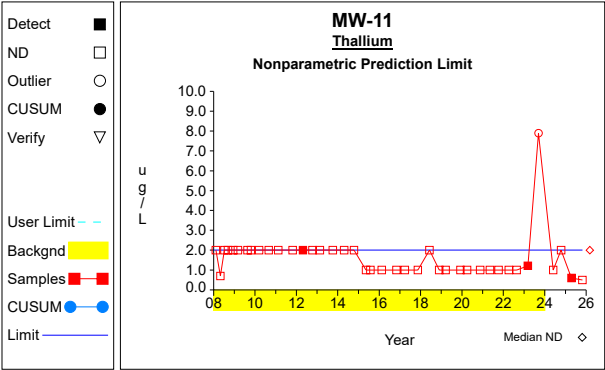
Graph 10



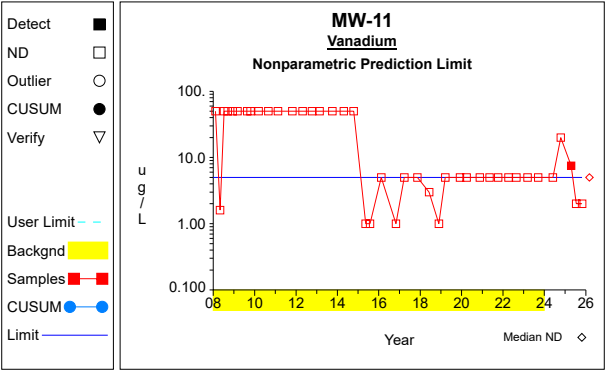
Graph 11



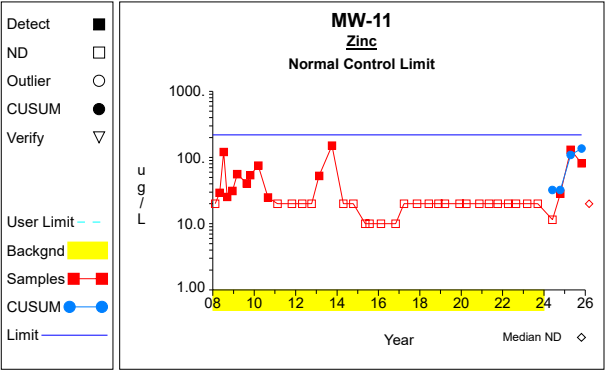
Graph 12



Graph 13

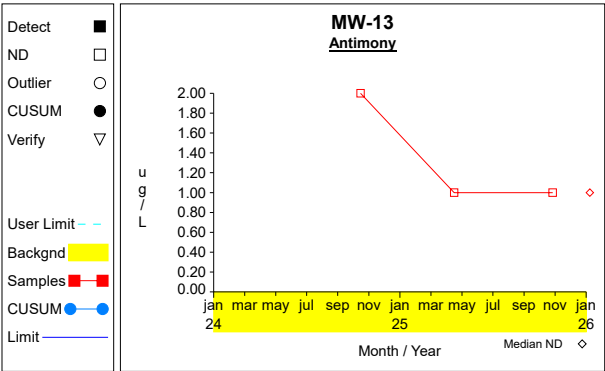


Graph 14

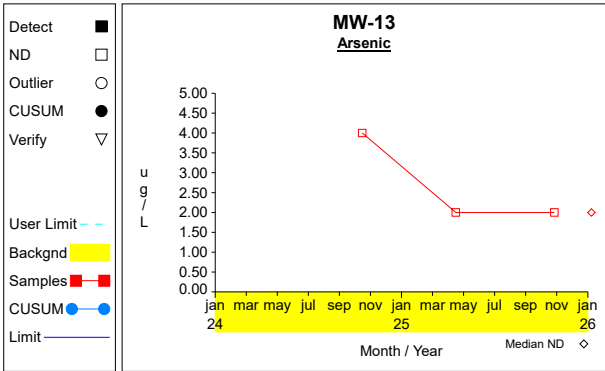


Graph 15

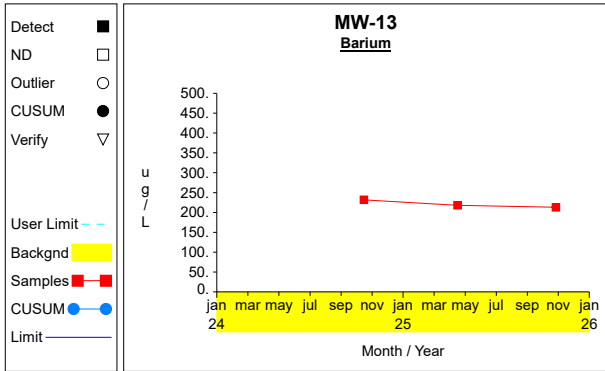
Intra-Well Control Charts / Prediction Limits



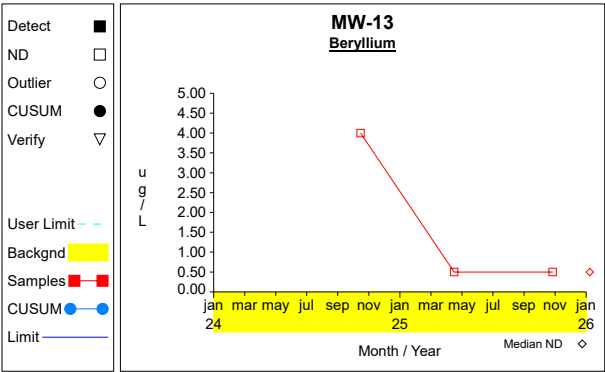
Graph 16



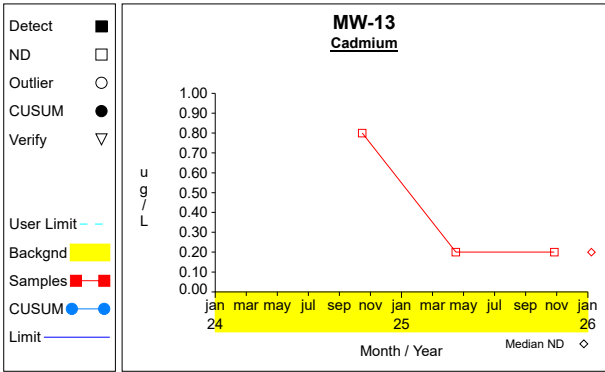
Graph 17



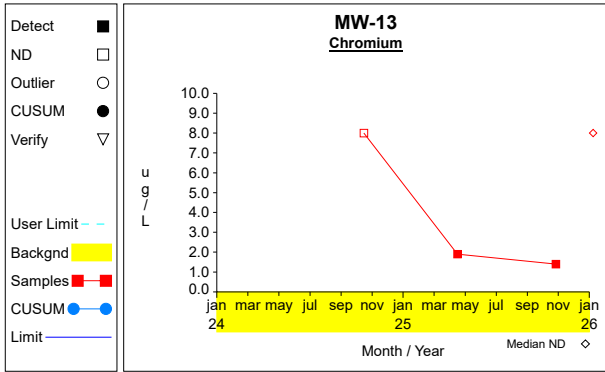
Graph 18



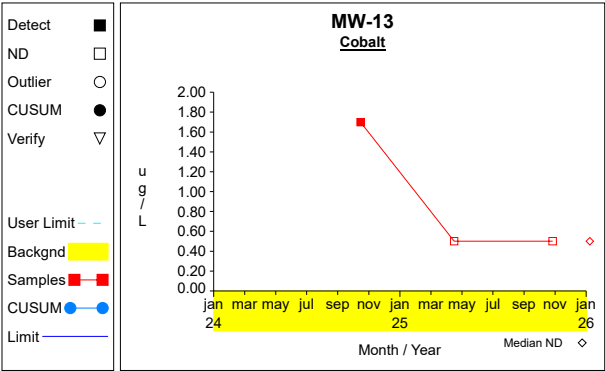
Graph 19



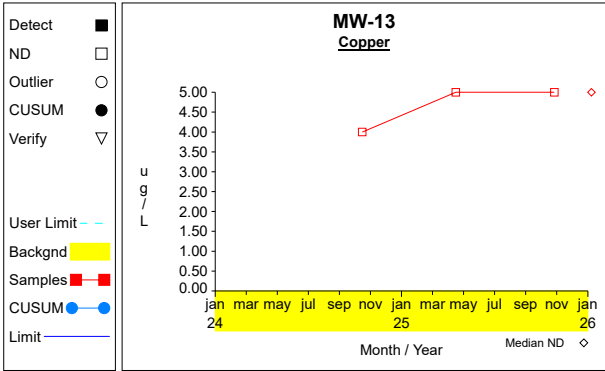
Graph 20



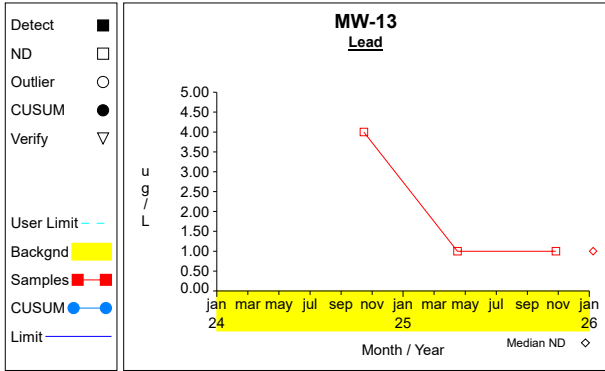
Graph 21



Graph 22

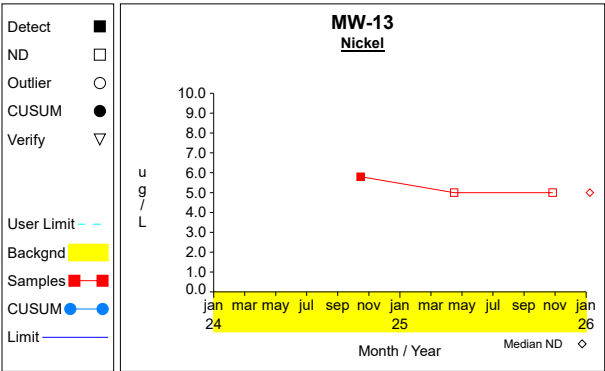


Graph 23

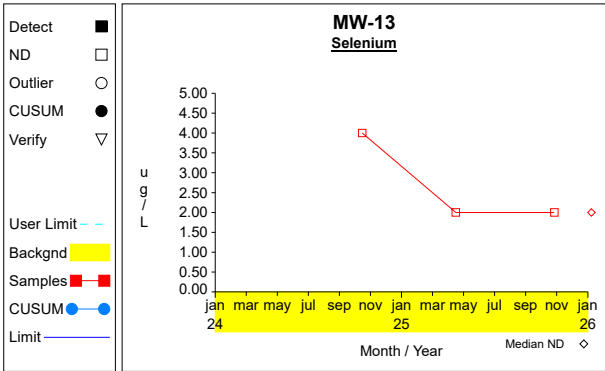


Graph 24

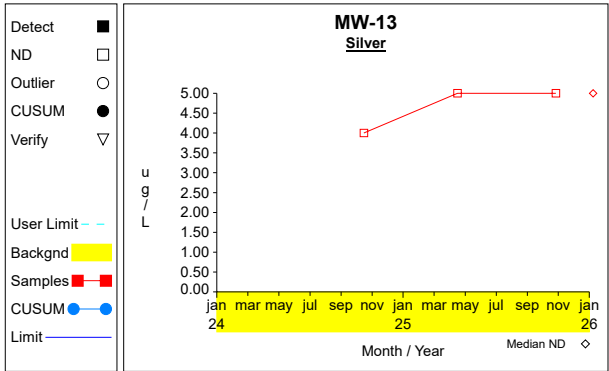
Intra-Well Control Charts / Prediction Limits



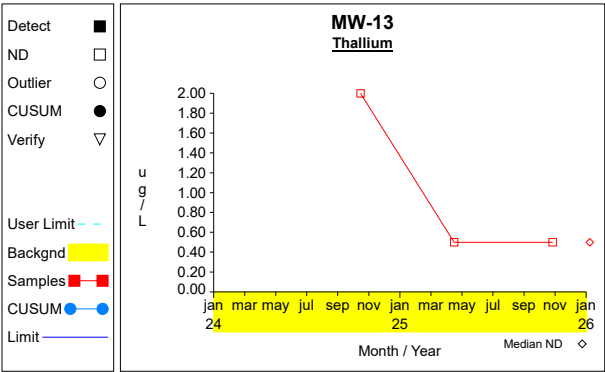
Graph 25



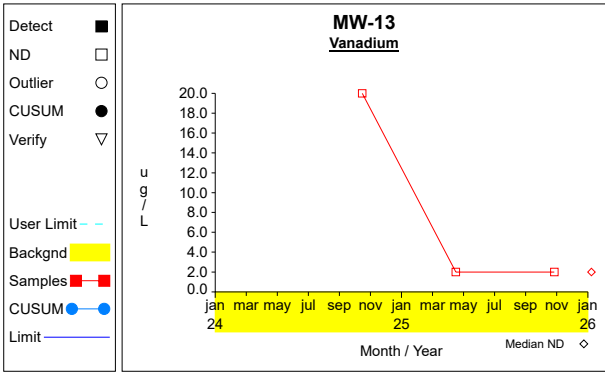
Graph 26



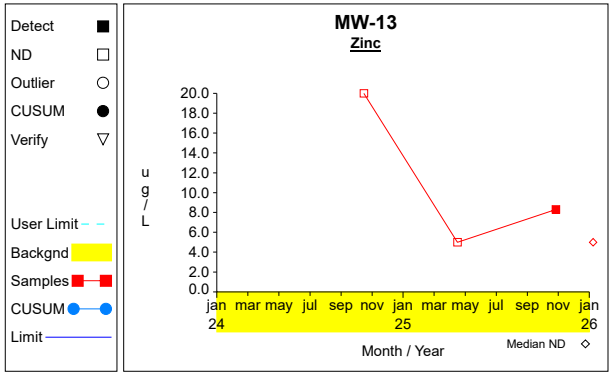
Graph 27



Graph 28

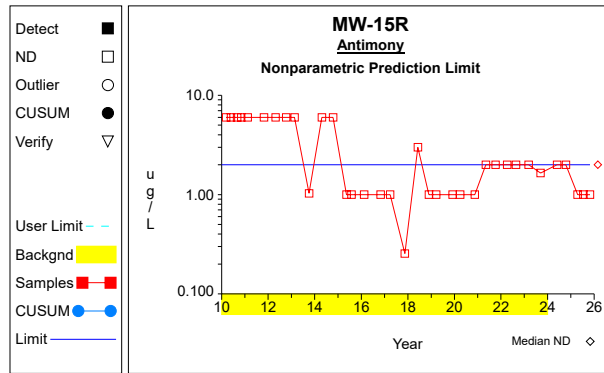


Graph 29

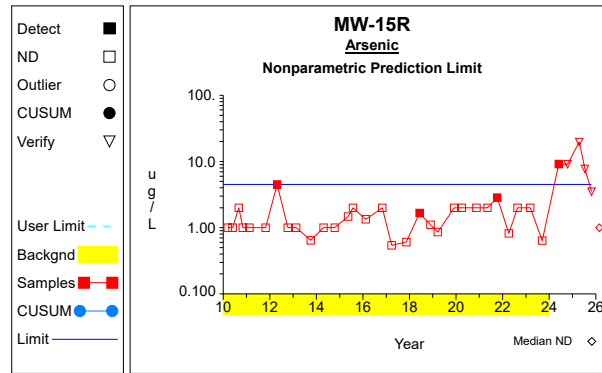


Graph 30

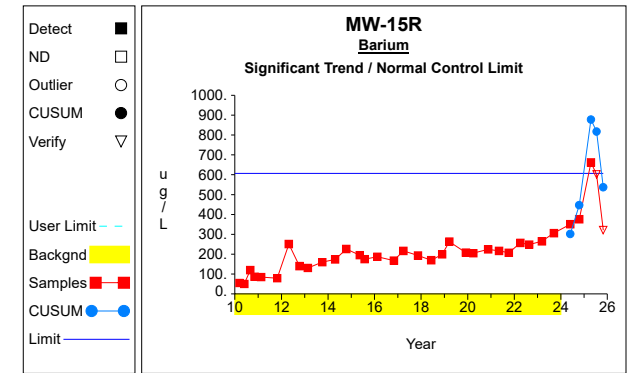
Intra-Well Control Charts / Prediction Limits



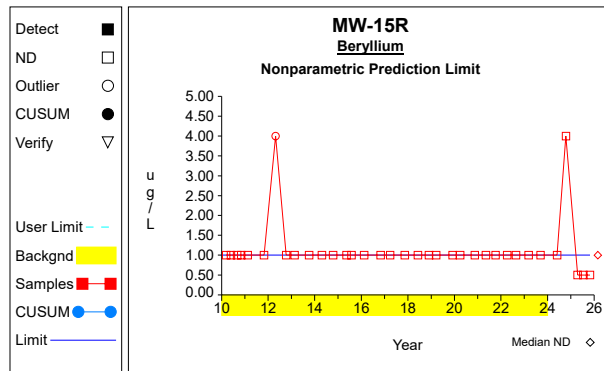
Graph 31



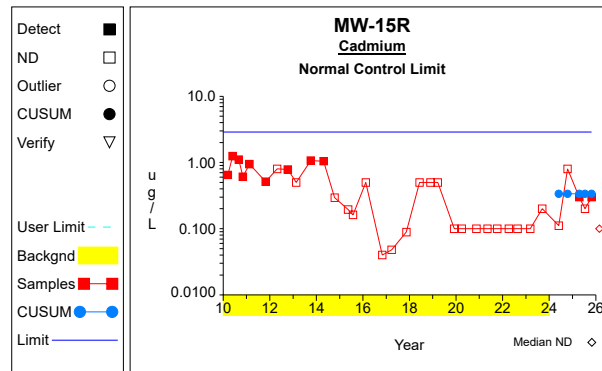
Graph 32



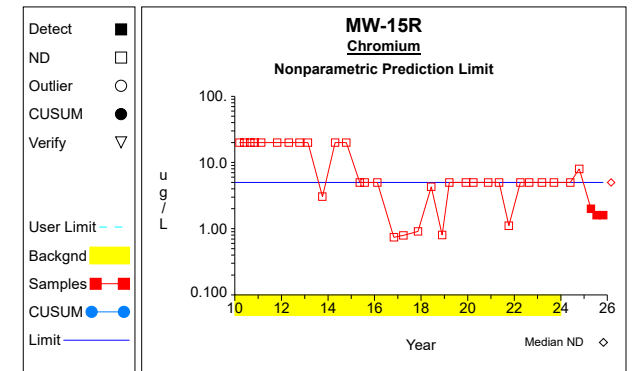
Graph 33



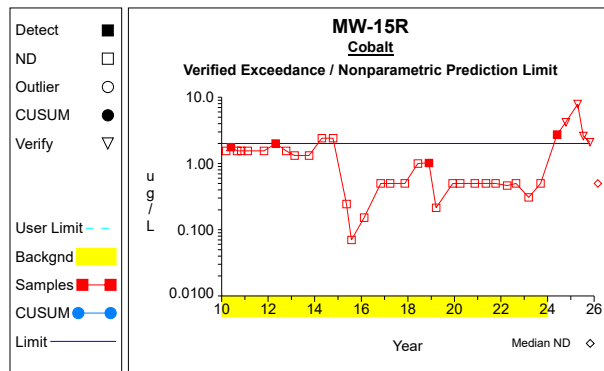
Graph 34



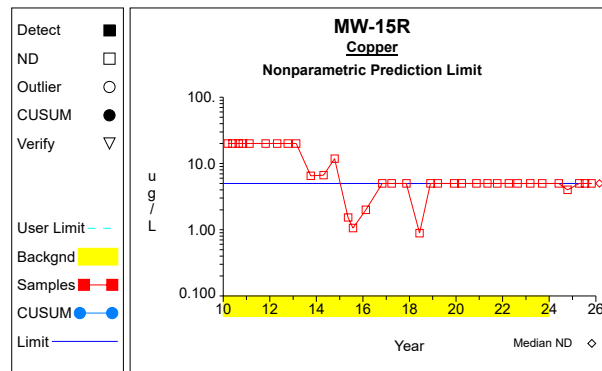
Graph 35



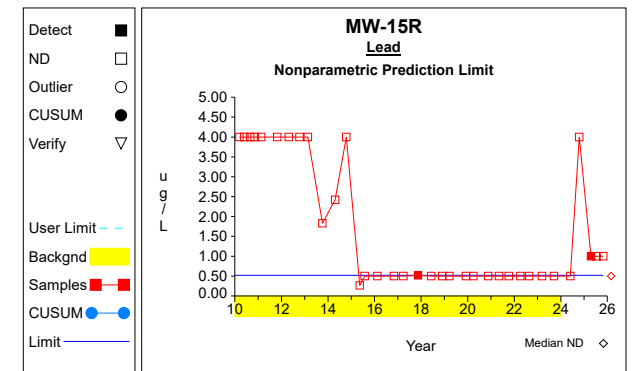
Graph 36



Graph 37

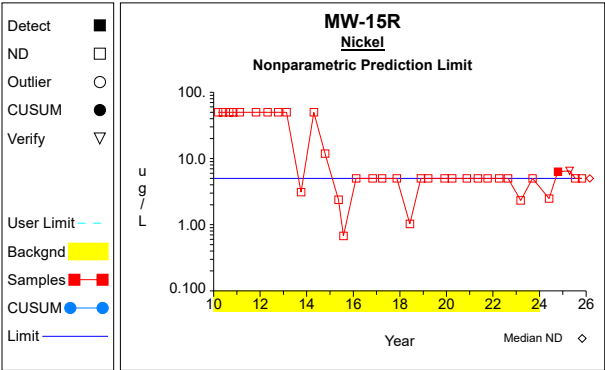


Graph 38

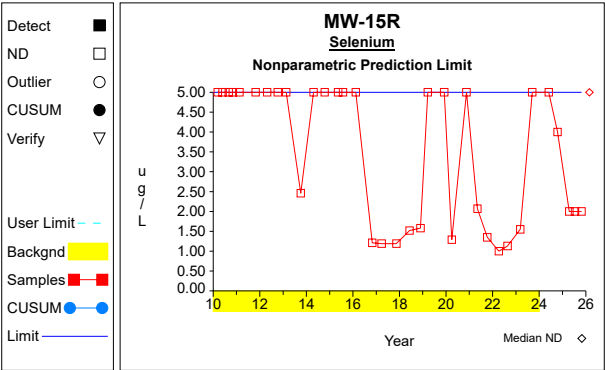


Graph 39

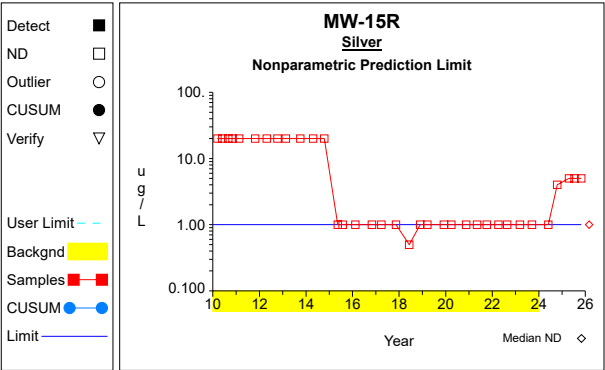
Intra-Well Control Charts / Prediction Limits



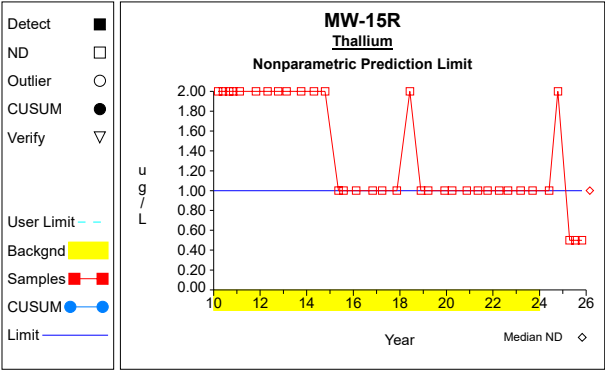
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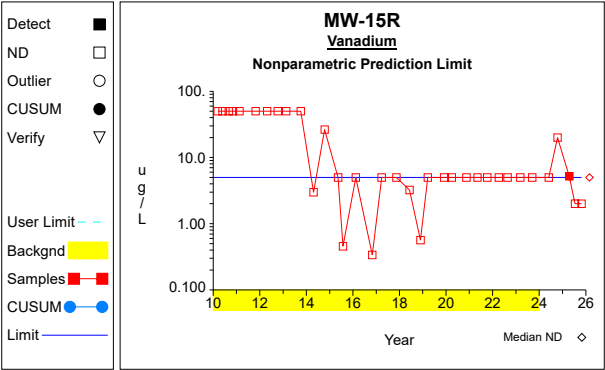
Graph 41



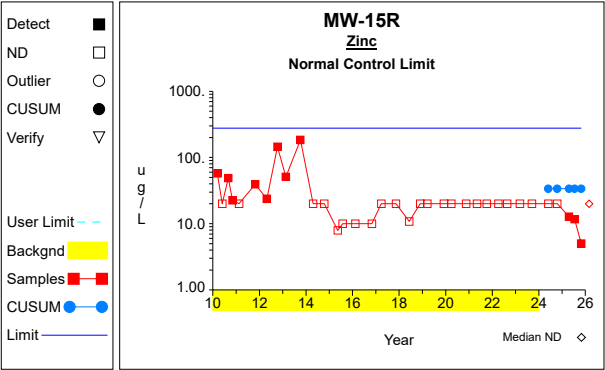
Graph 42



Graph 43

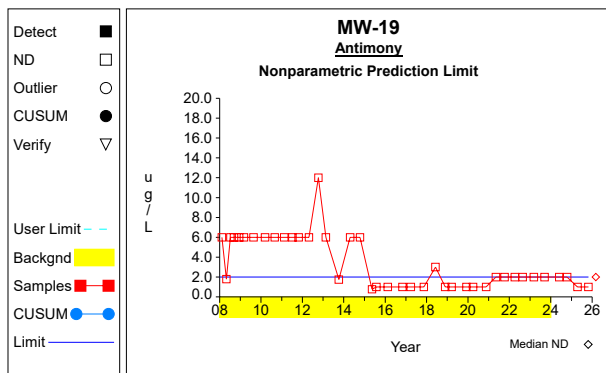


Graph 44

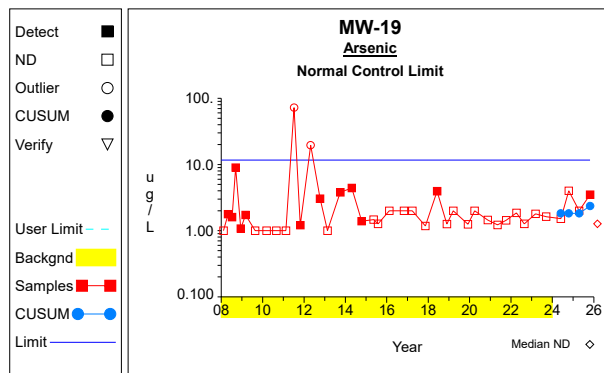


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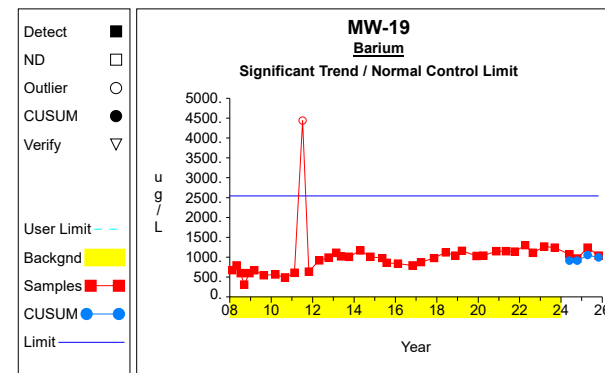
Intra-Well Control Charts / Prediction Limits



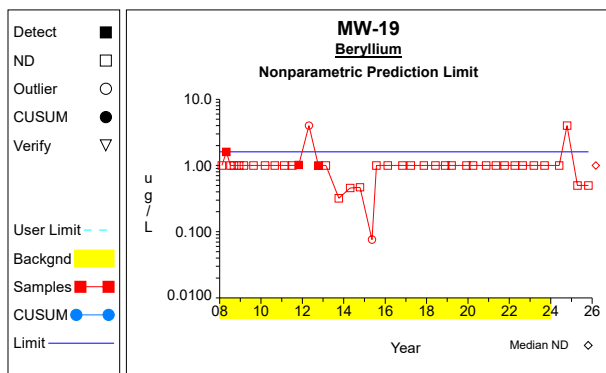
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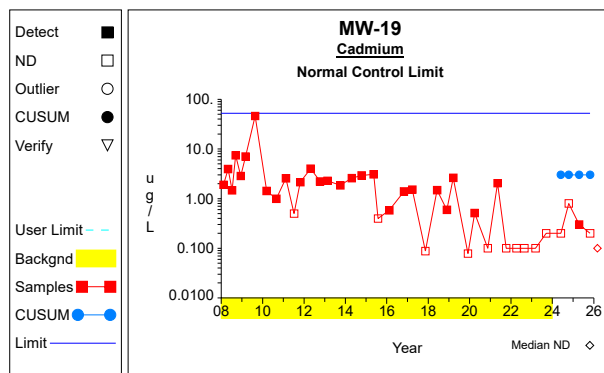
Graph 47



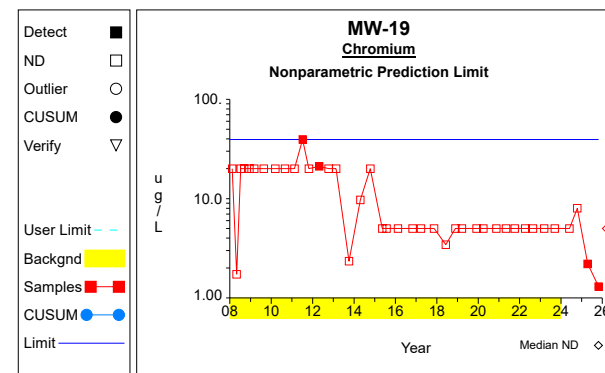
Graph 48



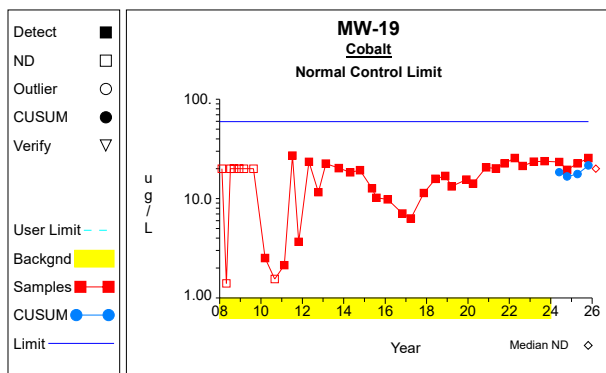
Graph 49



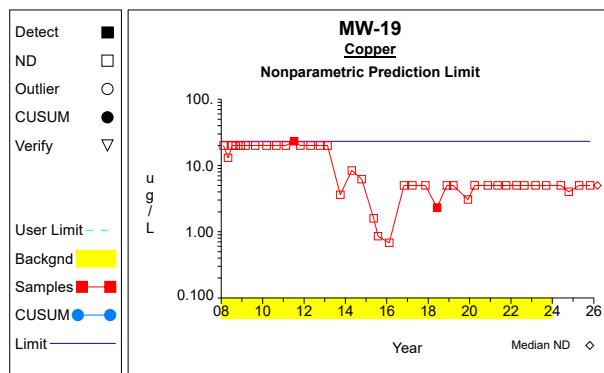
Graph 50



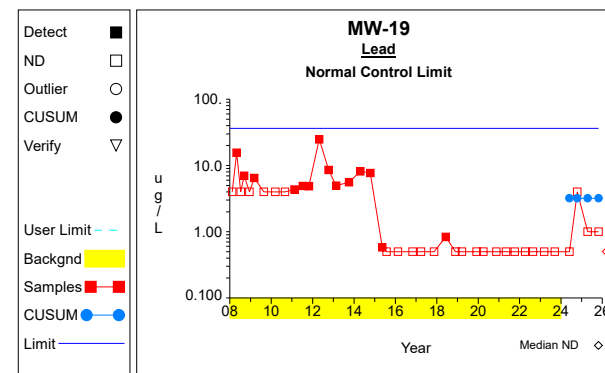
Graph 51



Graph 52

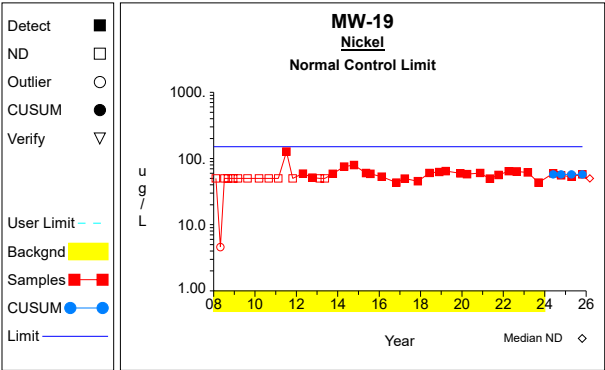


Graph 53

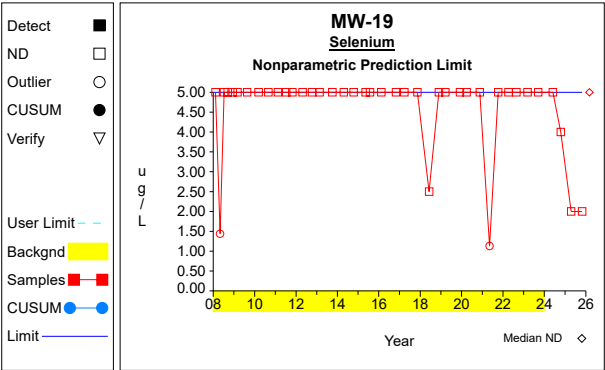


Graph 54

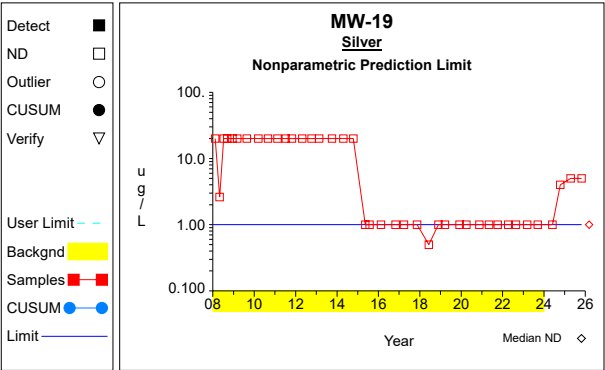
Intra-Well Control Charts / Prediction Limits



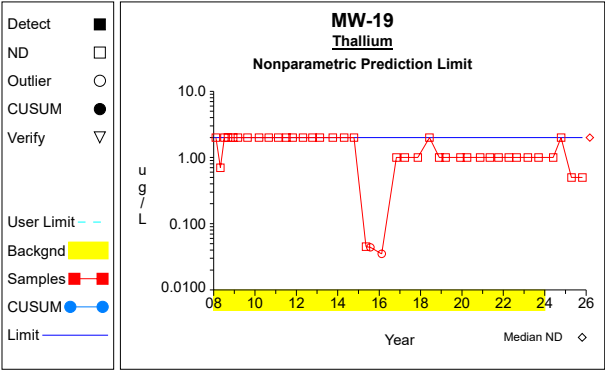
Graph 55



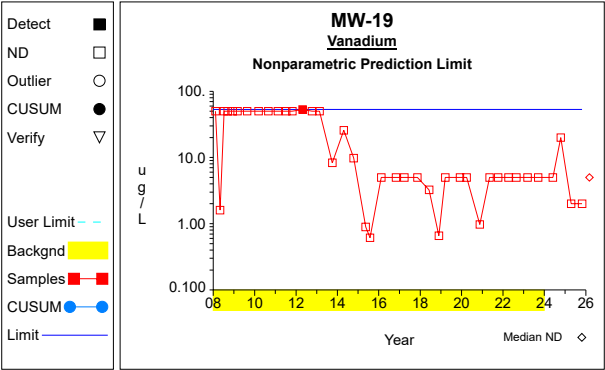
Graph 56



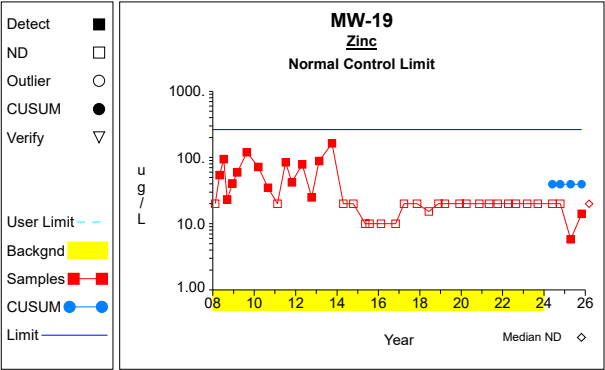
Graph 57



Graph 58

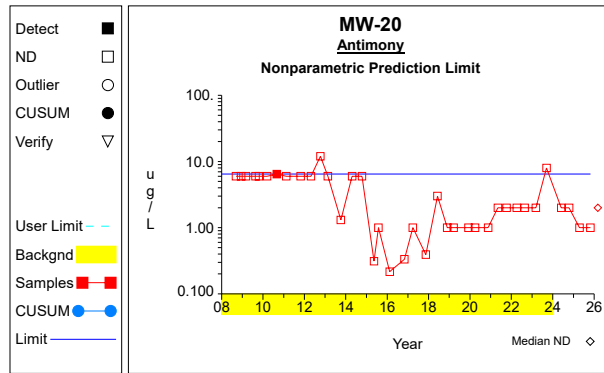


Graph 59

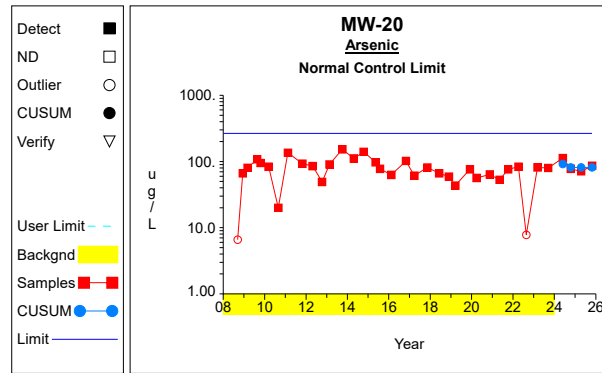


Graph 60

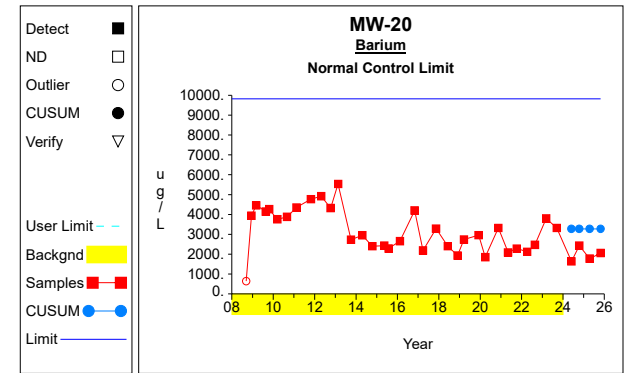
Intra-Well Control Charts / Prediction Limits



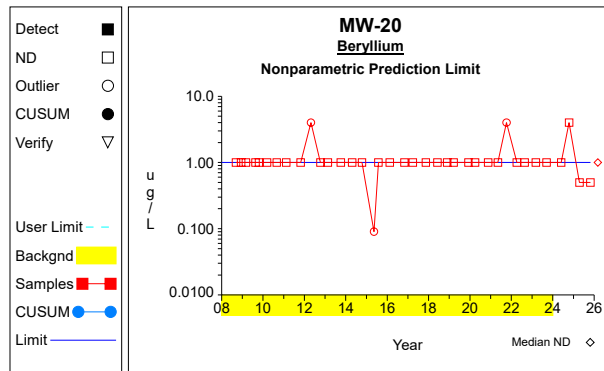
Graph 61



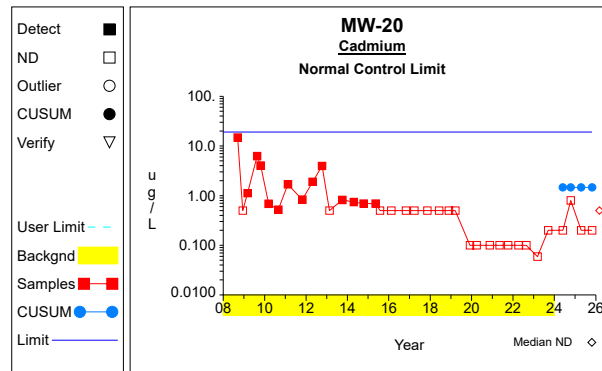
Graph 62



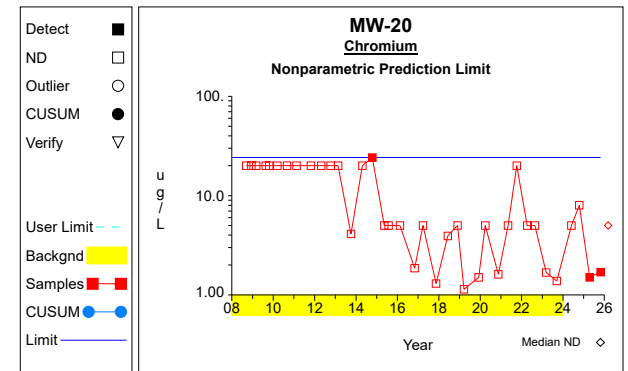
Graph 63



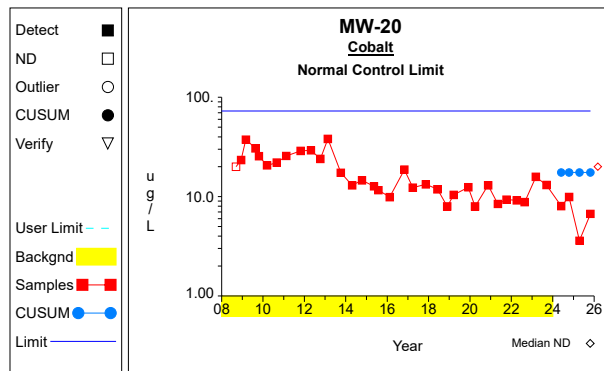
Graph 64



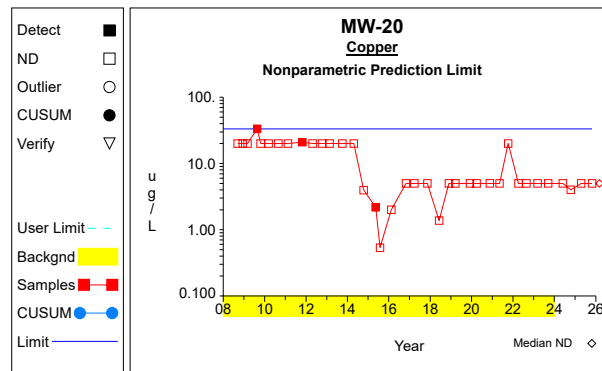
Graph 65



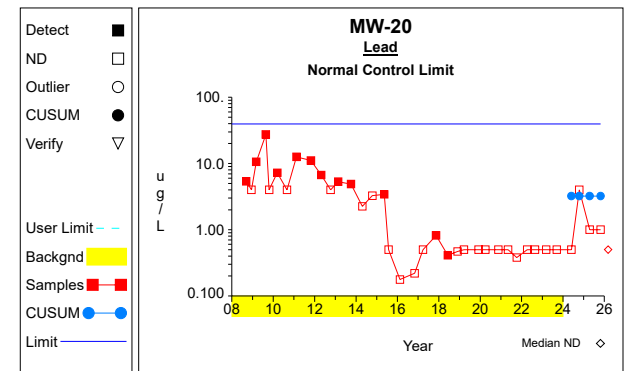
Graph 66



Graph 67

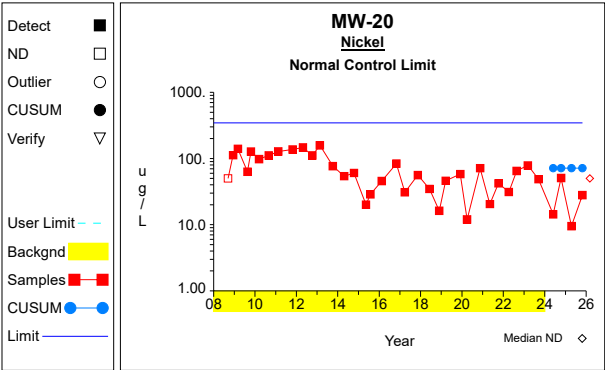


Graph 68

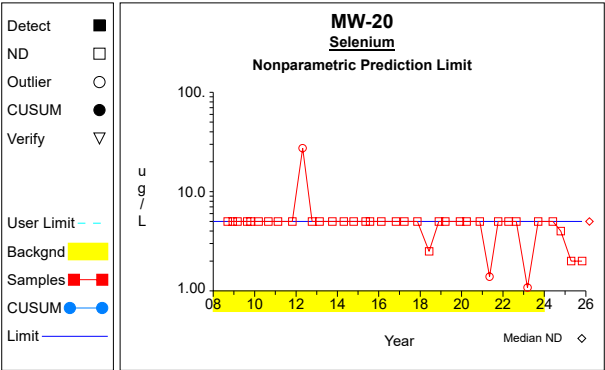


Graph 69

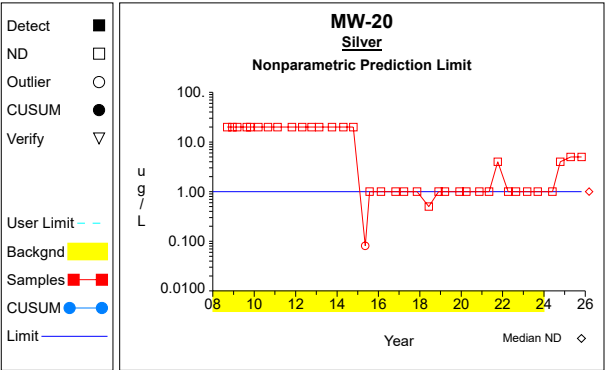
Intra-Well Control Charts / Prediction Limits



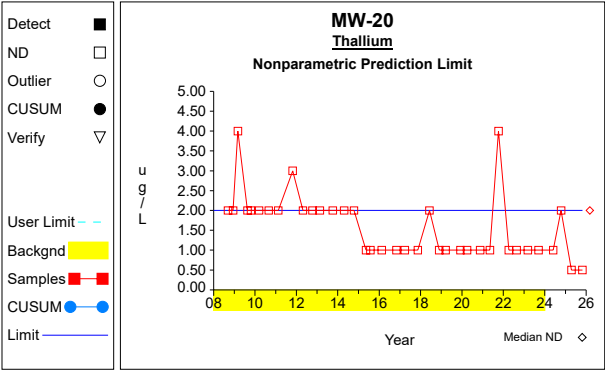
Graph 70



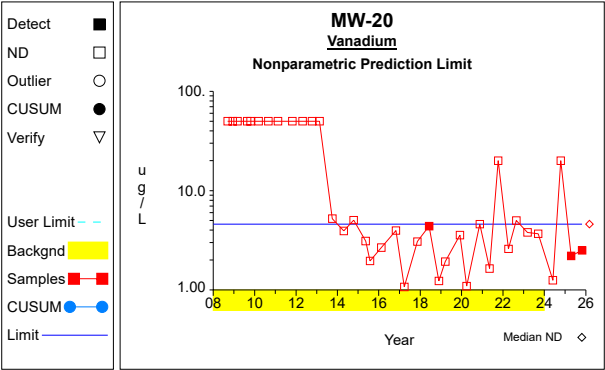
Graph 71



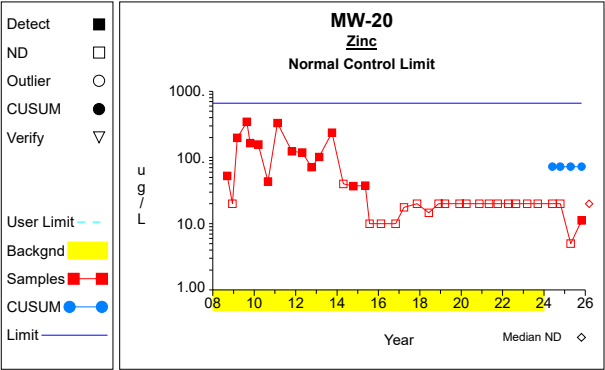
Graph 72



Graph 73

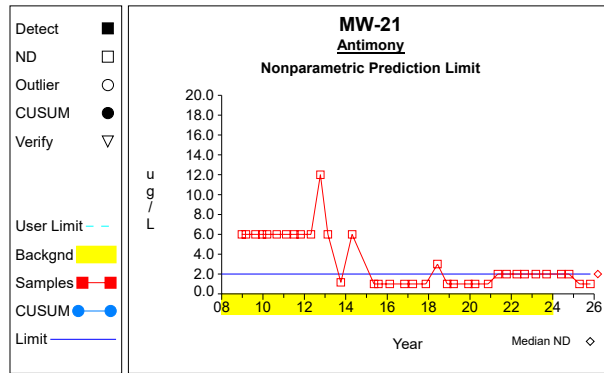


Graph 74

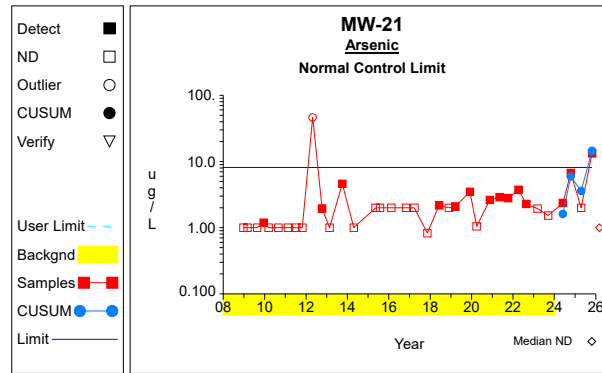


Graph 75

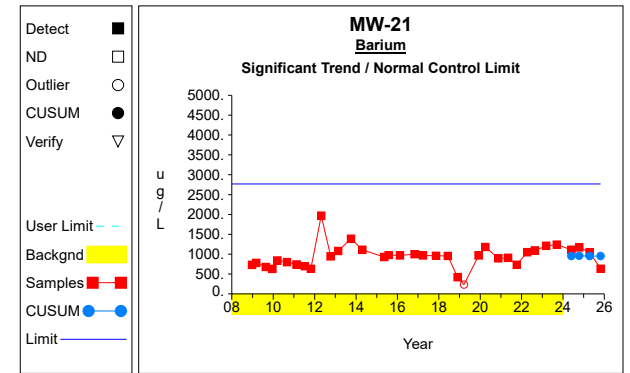
Intra-Well Control Charts / Prediction Limits



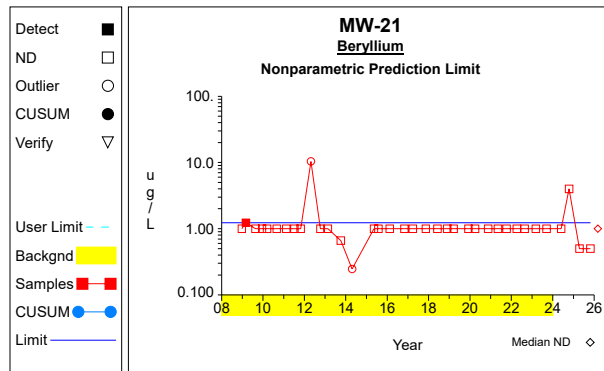
Graph 76



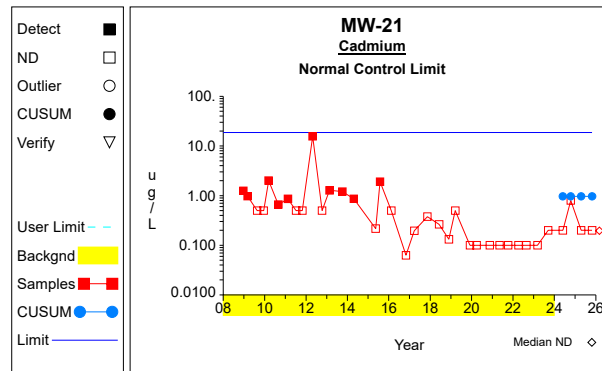
Graph 77



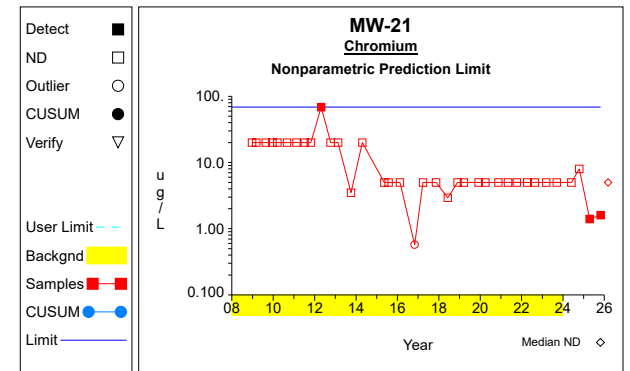
Graph 78



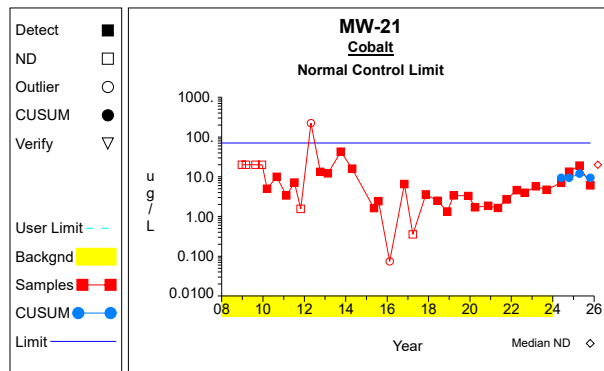
Graph 79



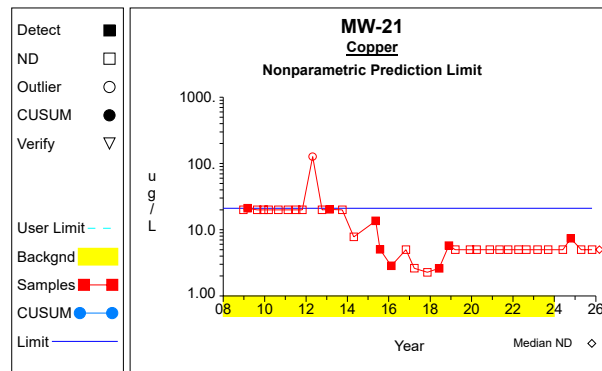
Graph 80



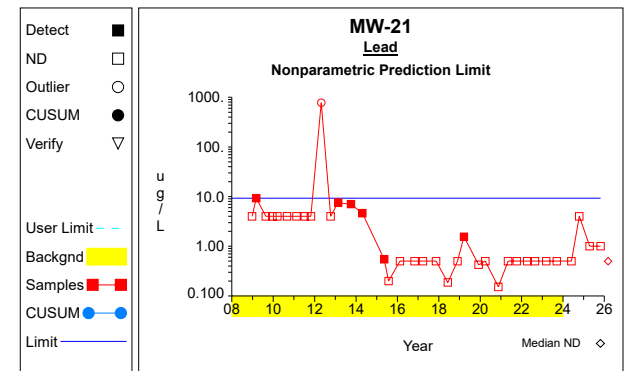
Graph 81



Graph 82

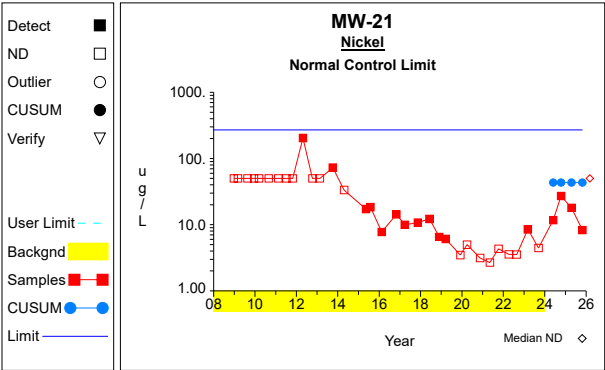


Graph 83

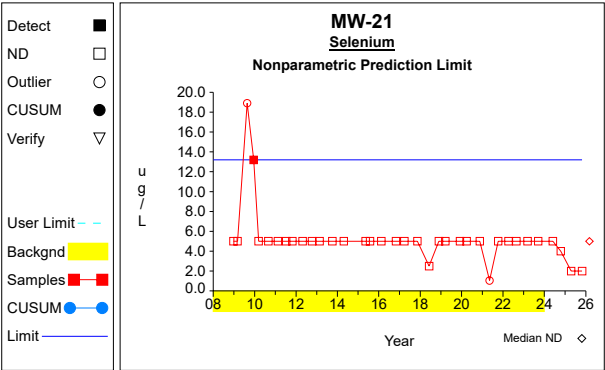


Graph 84

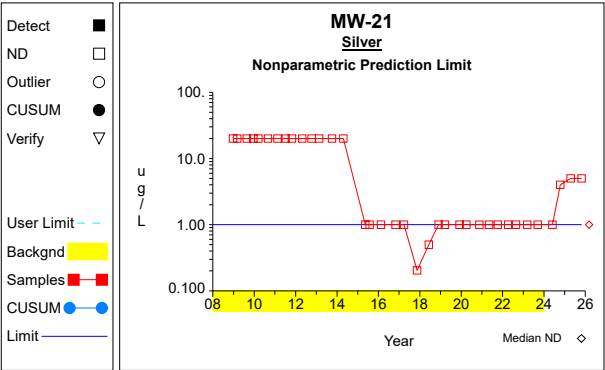
Intra-Well Control Charts / Prediction Limits



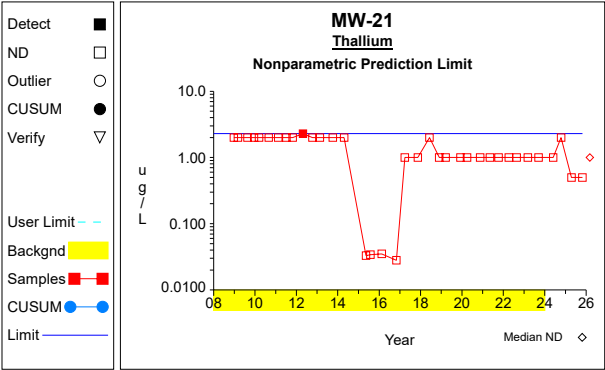
Graph 85



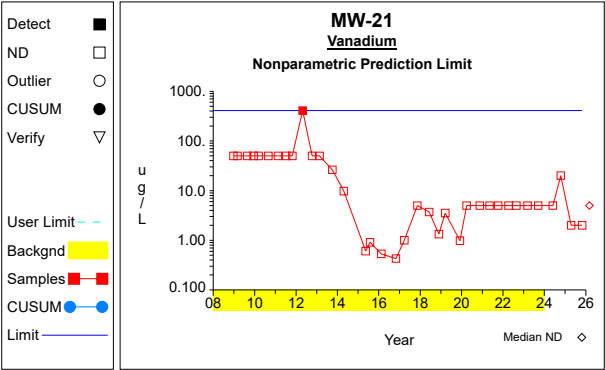
Graph 86



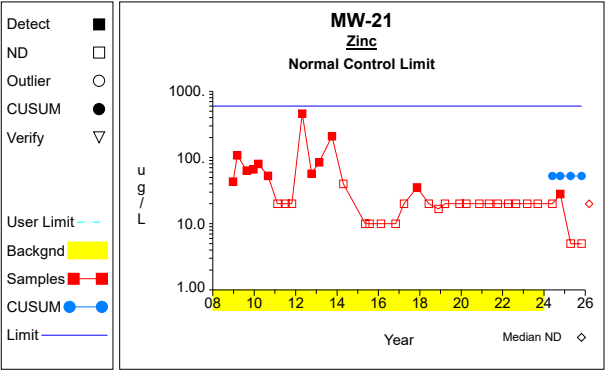
Graph 87



Graph 88

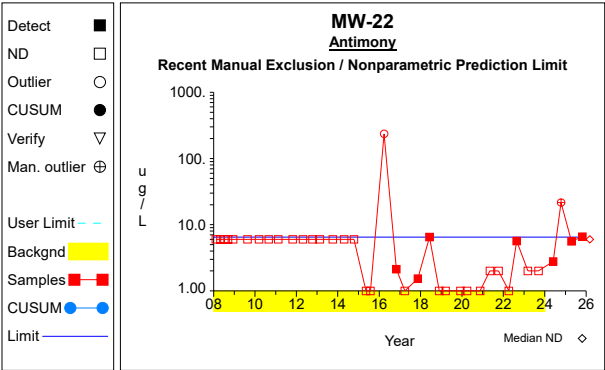


Graph 89

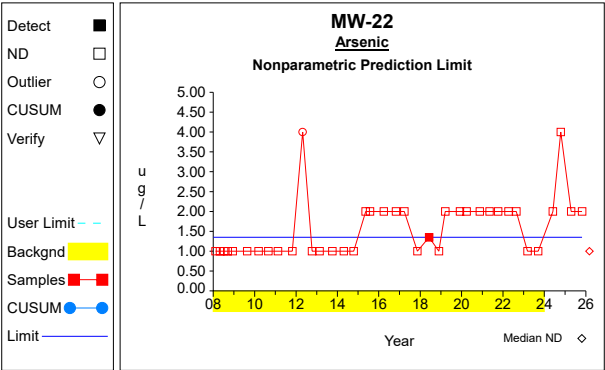


Graph 90

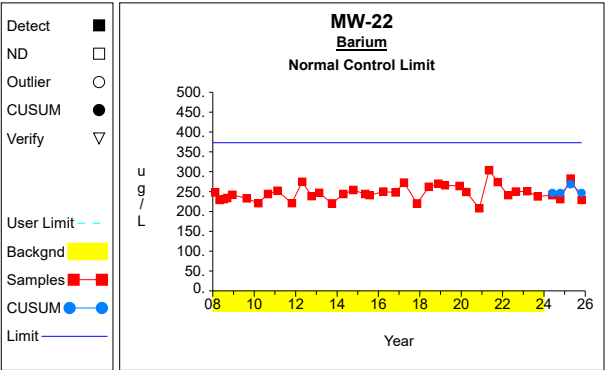
Intra-Well Control Charts / Prediction Limits



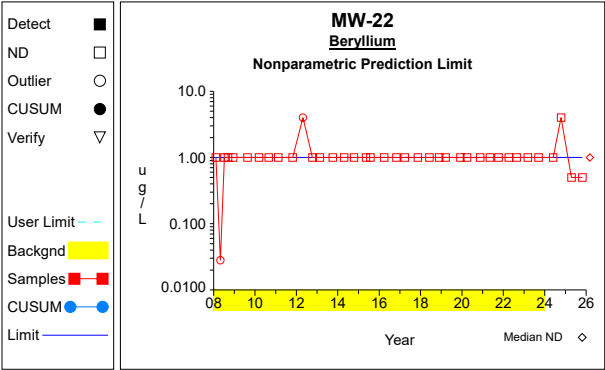
Graph 91



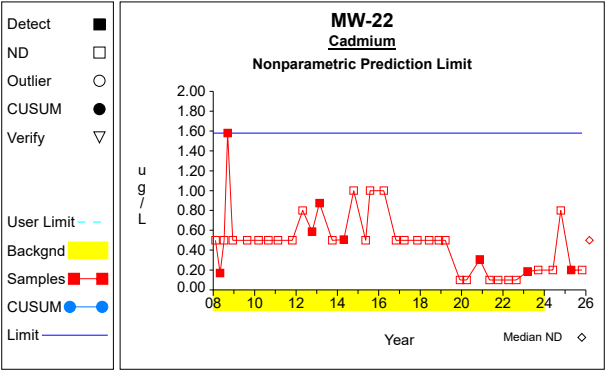
Graph 92



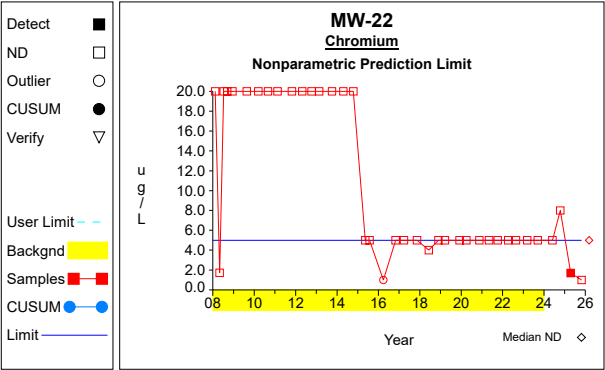
Graph 93



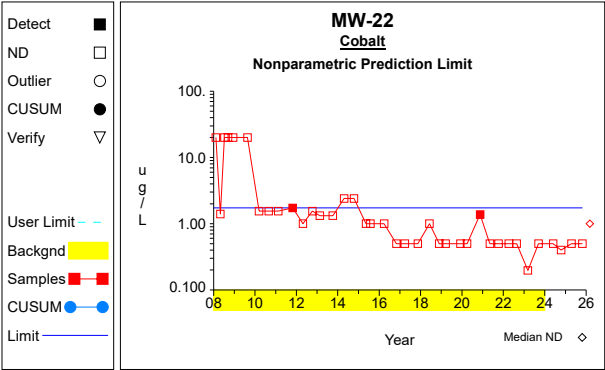
Graph 94



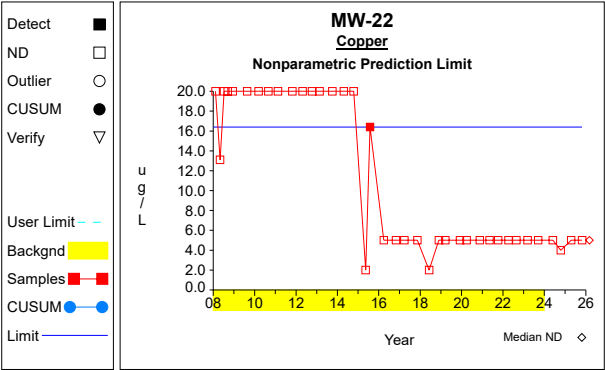
Graph 95



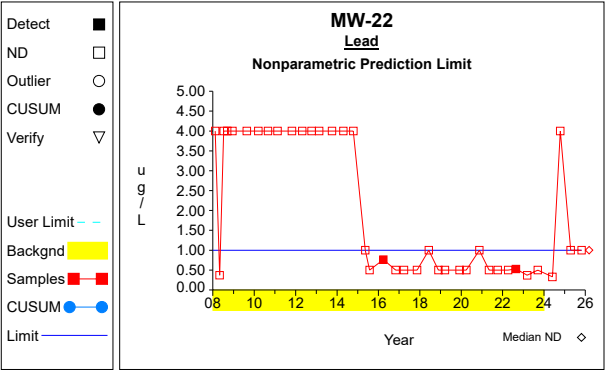
Graph 96



Graph 97

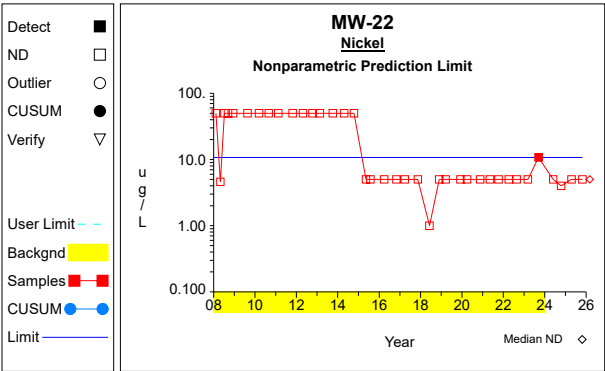


Graph 98

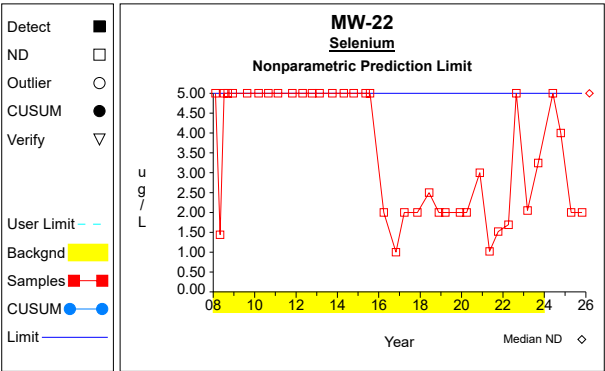


Graph 99

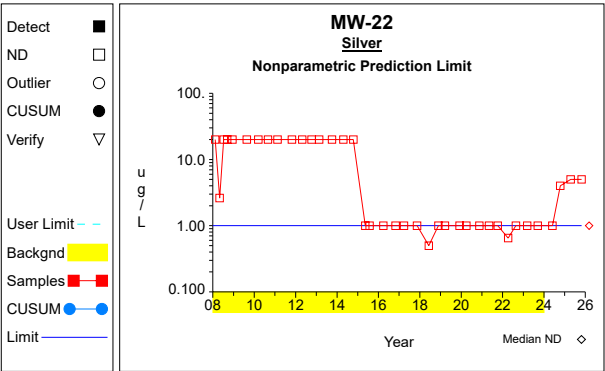
Intra-Well Control Charts / Prediction Limits



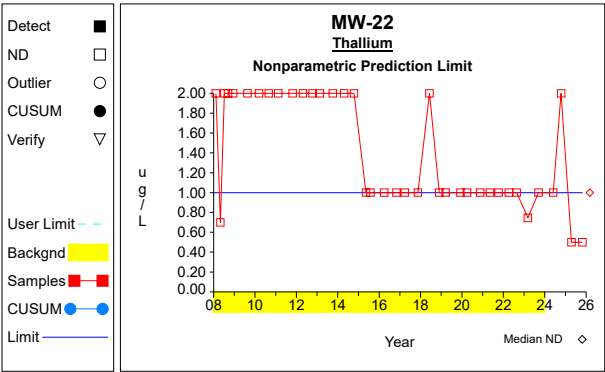
Graph 100



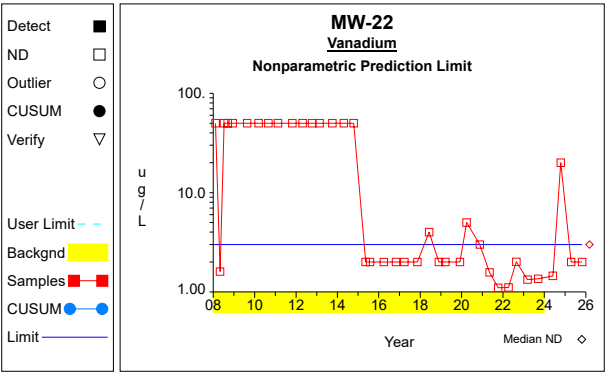
Graph 101



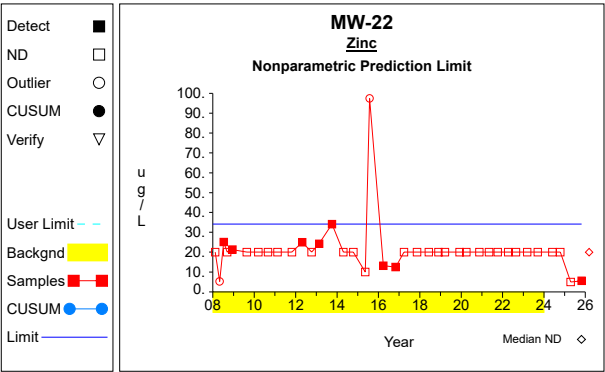
Graph 102



Graph 103

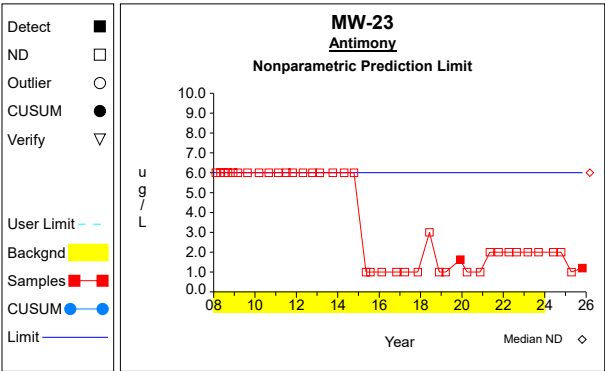


Graph 104

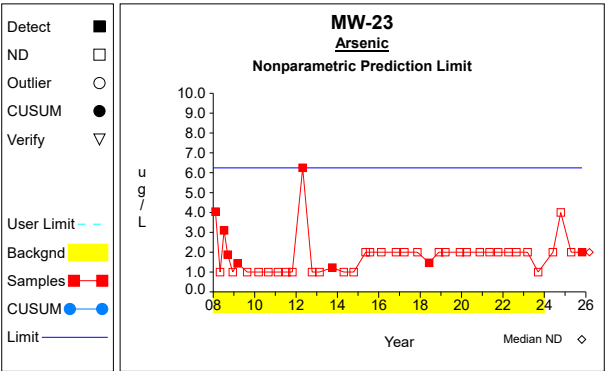


Graph 105

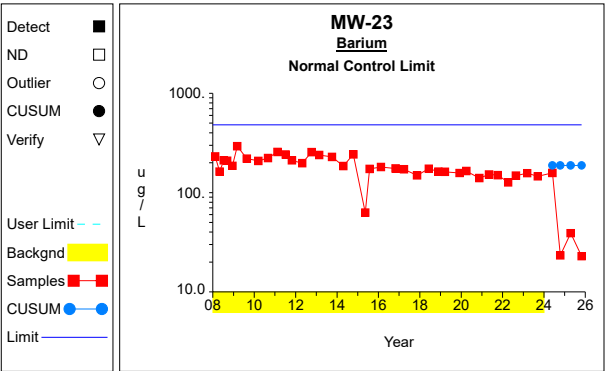
Intra-Well Control Charts / Prediction Limits



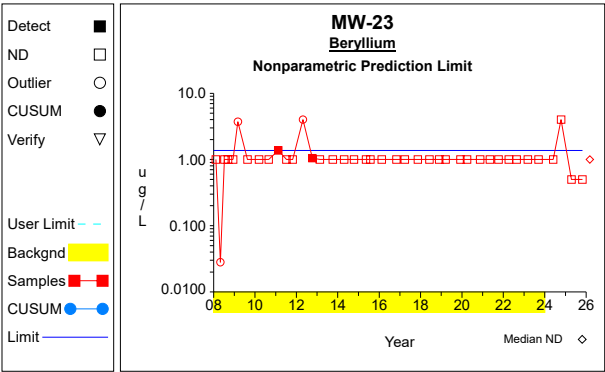
Graph 106



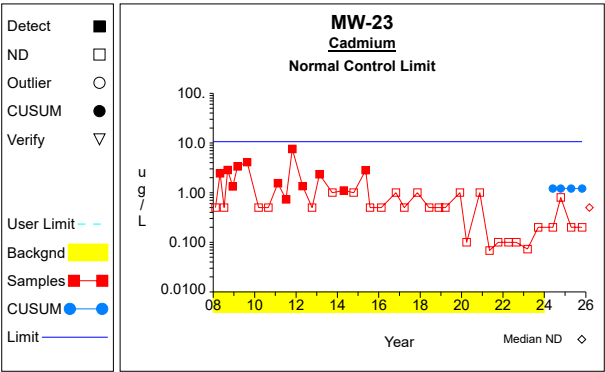
Graph 107



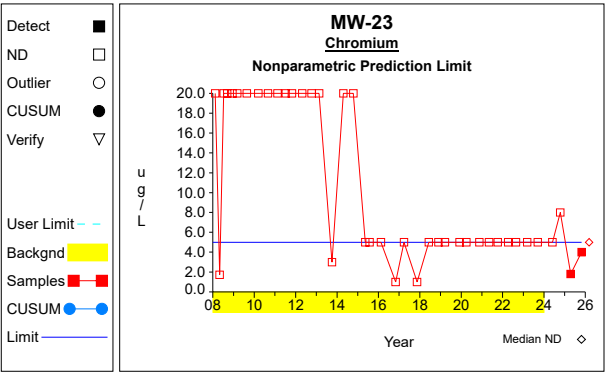
Graph 108



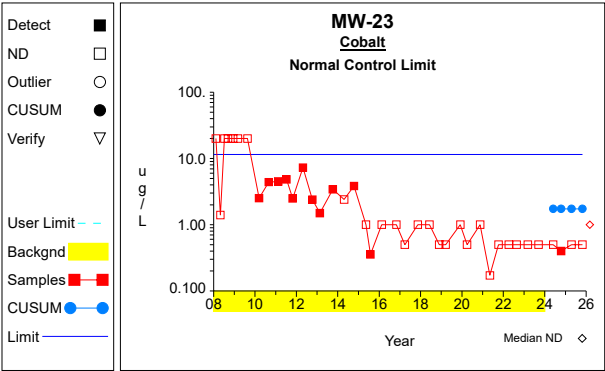
Graph 109



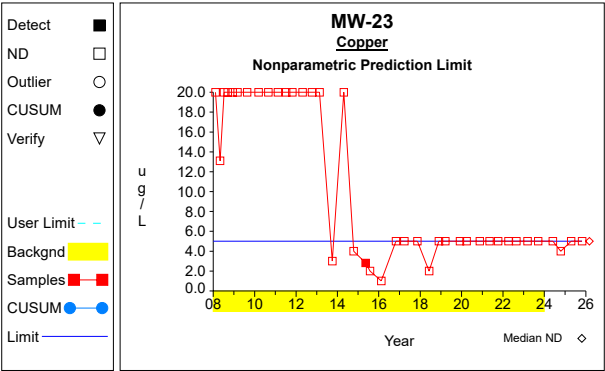
Graph 110



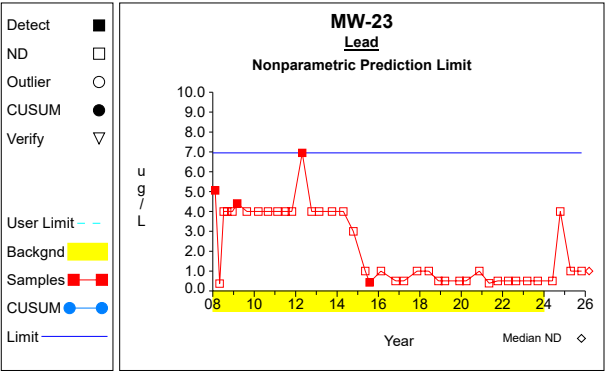
Graph 111



Graph 112

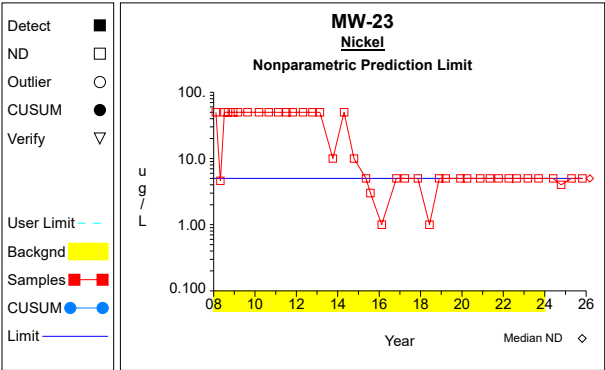


Graph 113

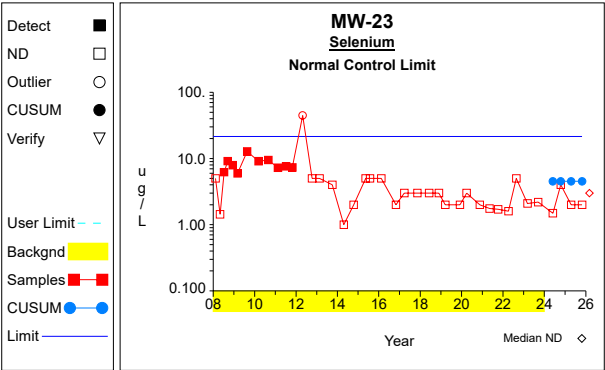


Graph 114

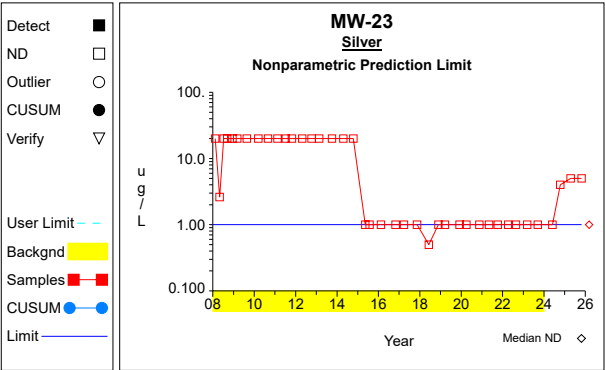
Intra-Well Control Charts / Prediction Limits



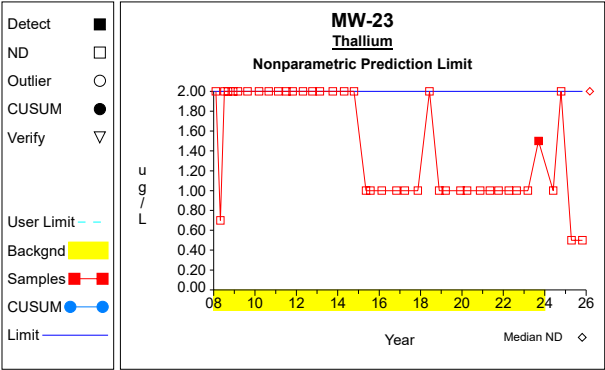
Graph 115



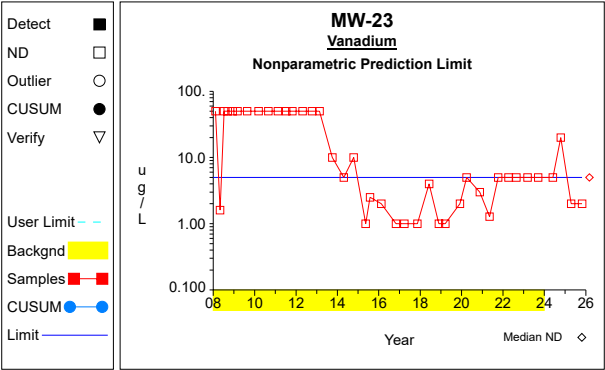
Graph 116



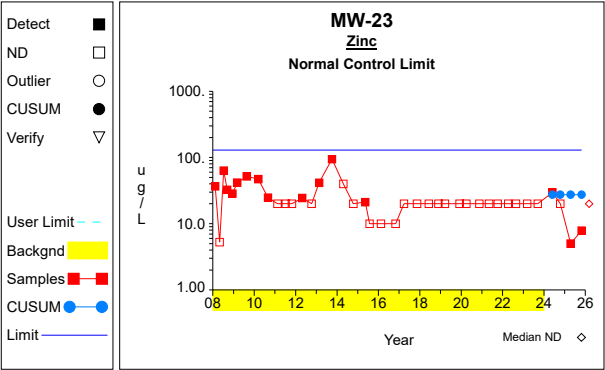
Graph 117



Graph 118

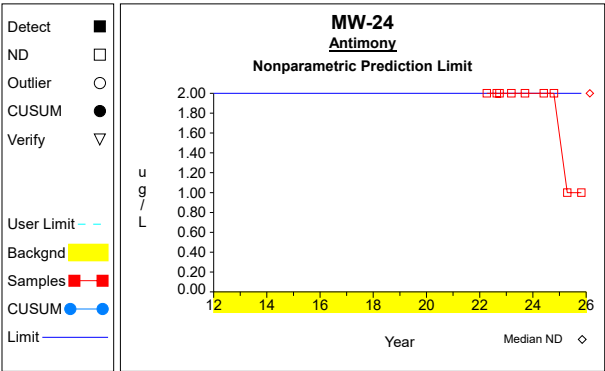


Graph 119

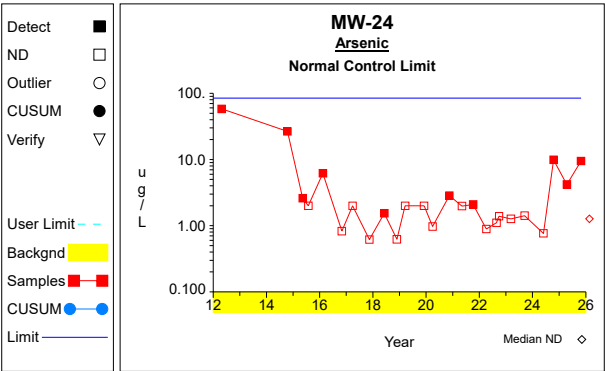


Graph 120

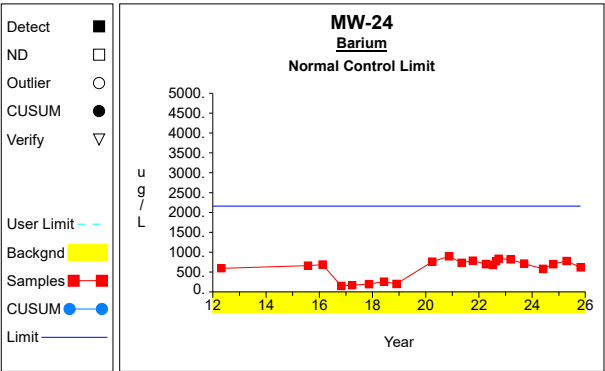
Intra-Well Control Charts / Prediction Limits



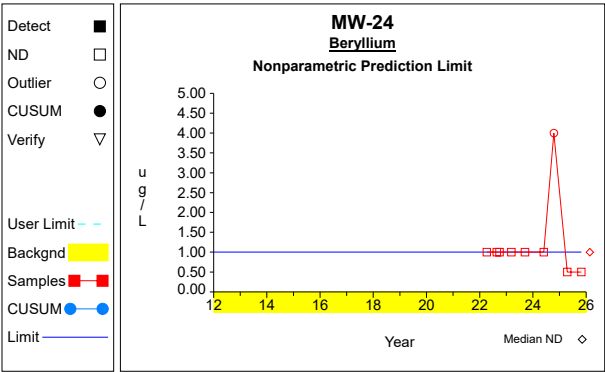
Graph 121



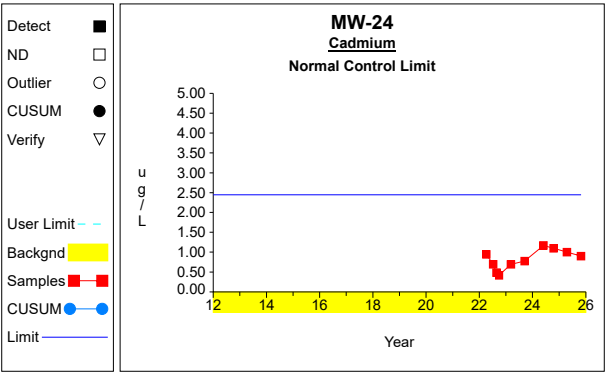
Graph 122



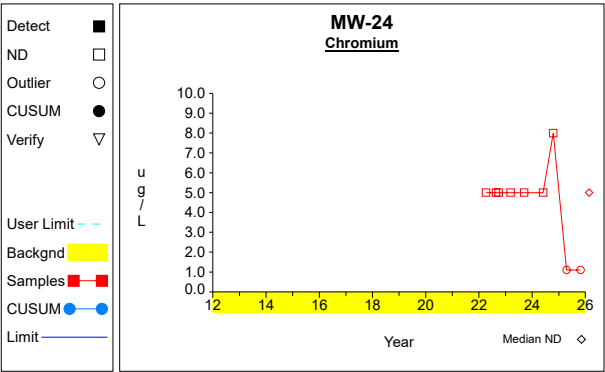
Graph 123



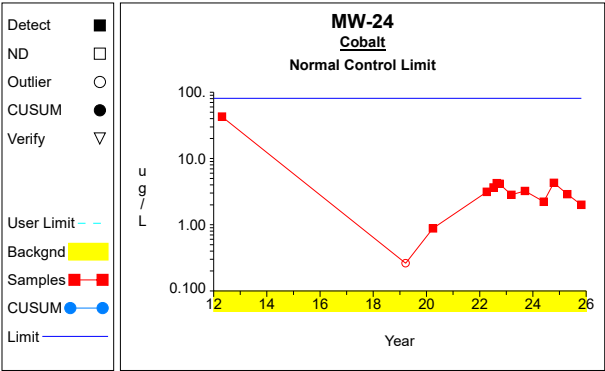
Graph 124



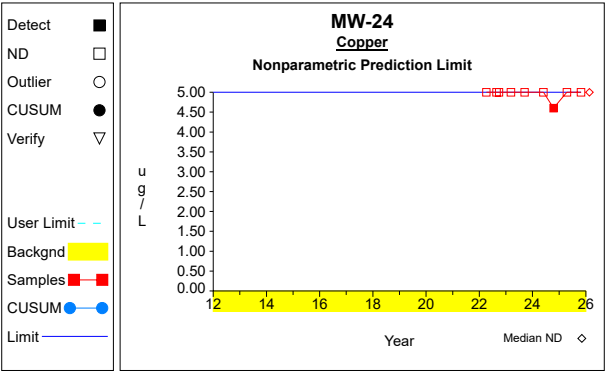
Graph 125



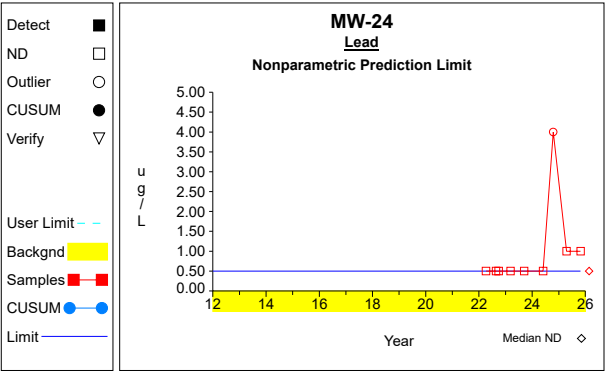
Graph 126



Graph 127

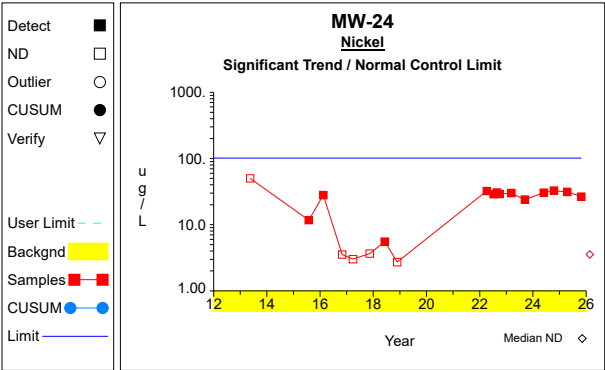


Graph 128

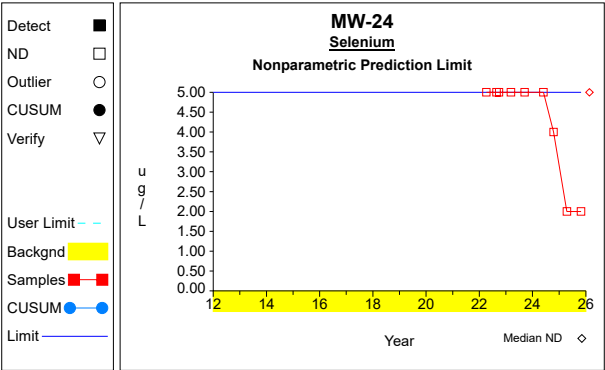


Graph 129

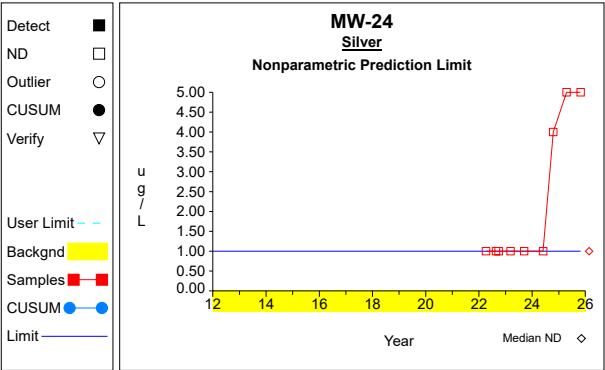
Intra-Well Control Charts / Prediction Limits



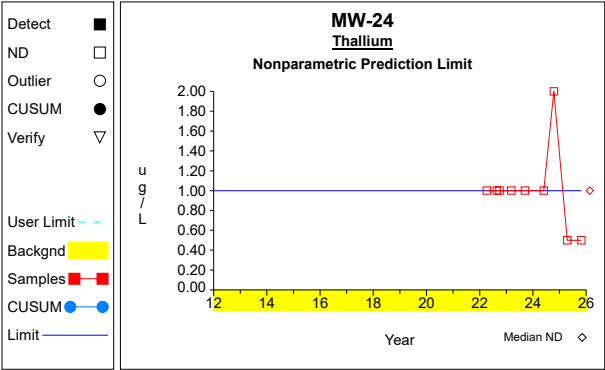
Graph 130



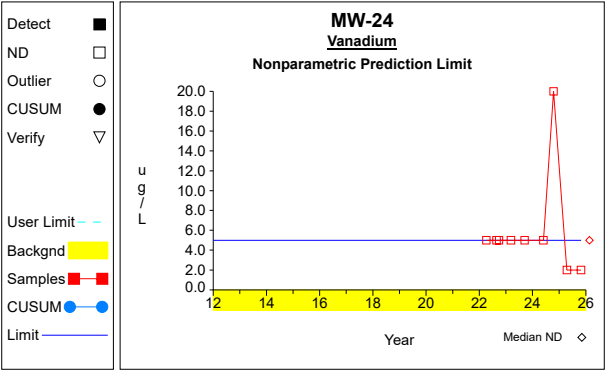
Graph 131



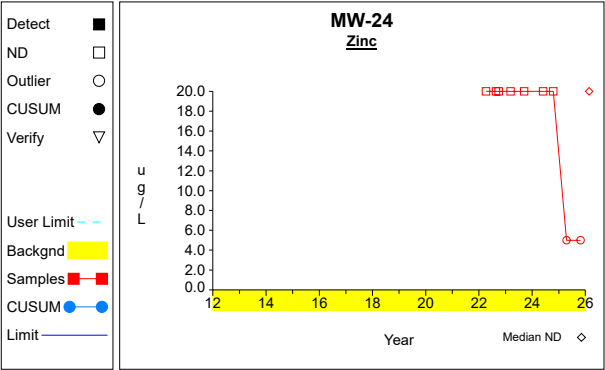
Graph 132



Graph 133

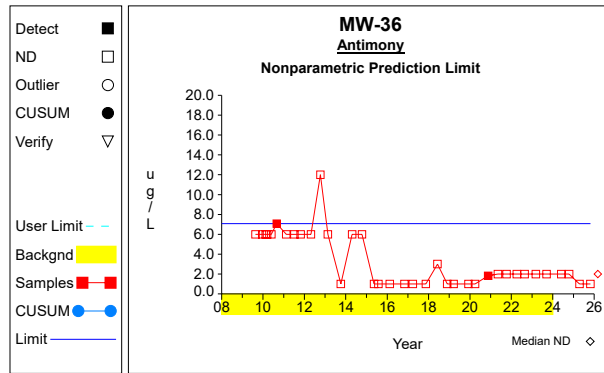


Graph 134

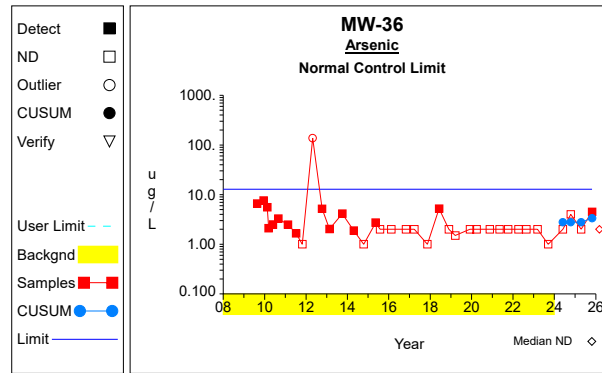


Graph 135

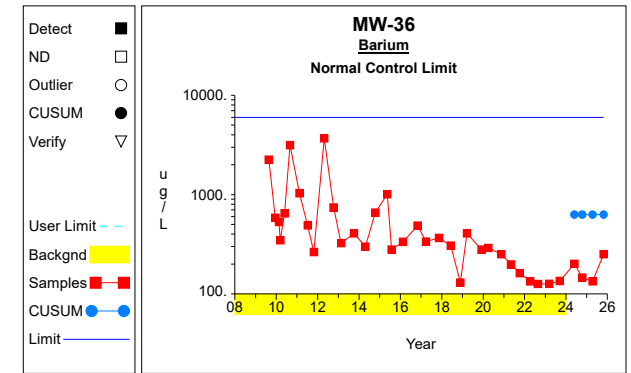
Intra-Well Control Charts / Prediction Limits



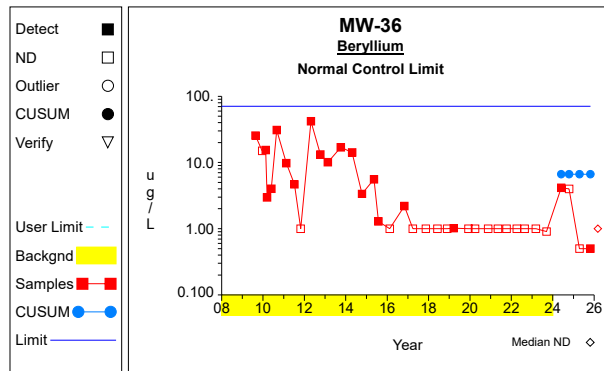
Graph 136



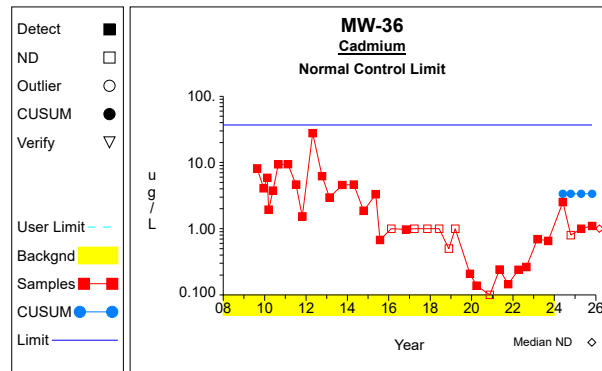
Graph 137



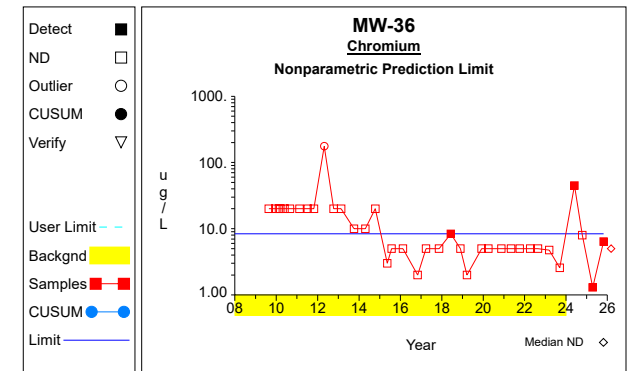
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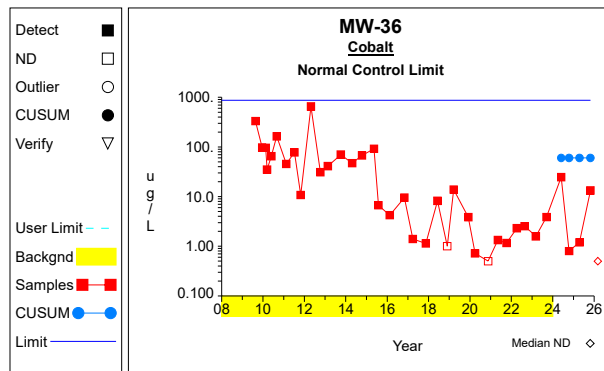
Graph 139



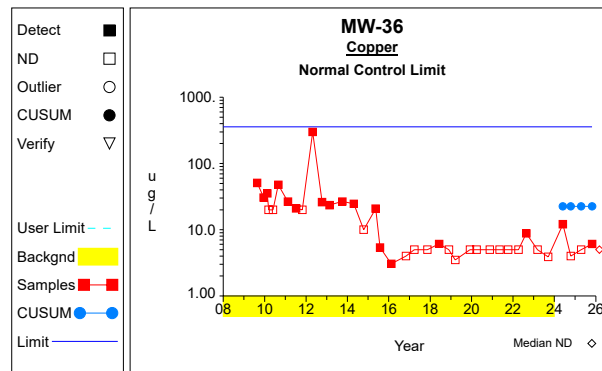
Graph 140



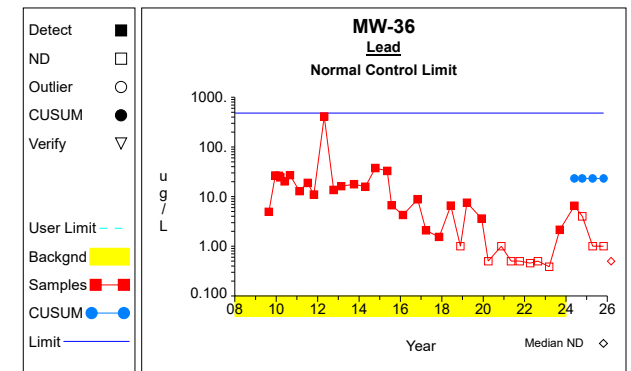
Graph 141



Graph 142

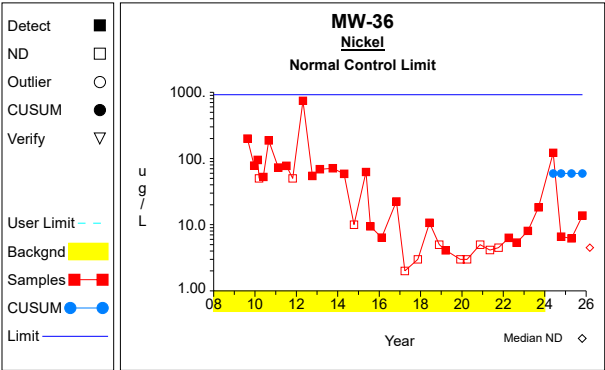


Graph 143

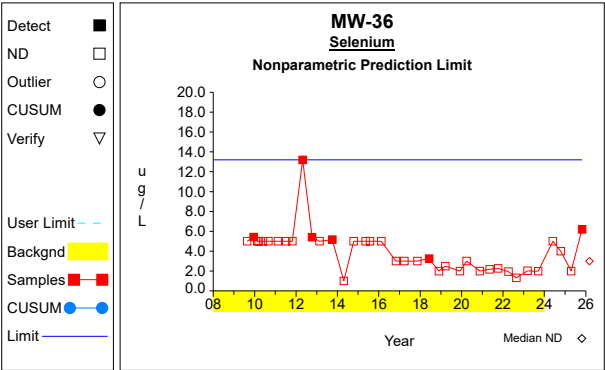


Graph 144

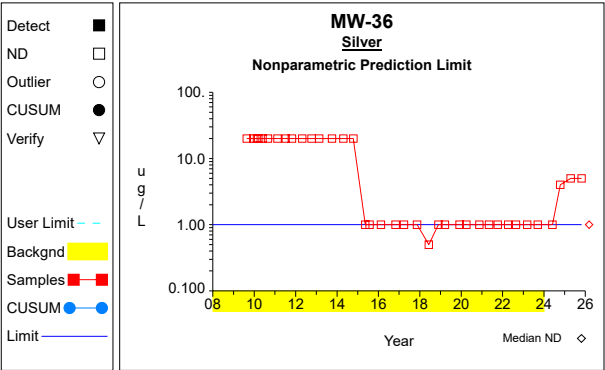
Intra-Well Control Charts / Prediction Limits



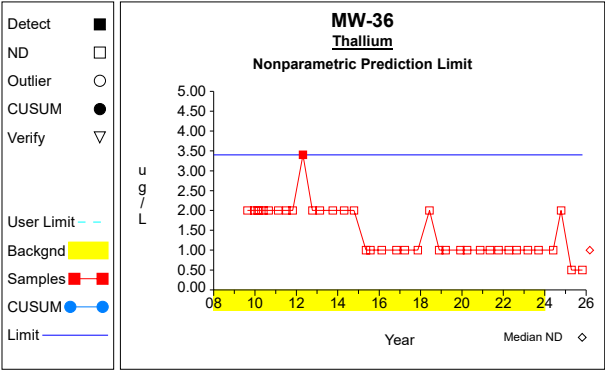
Graph 145



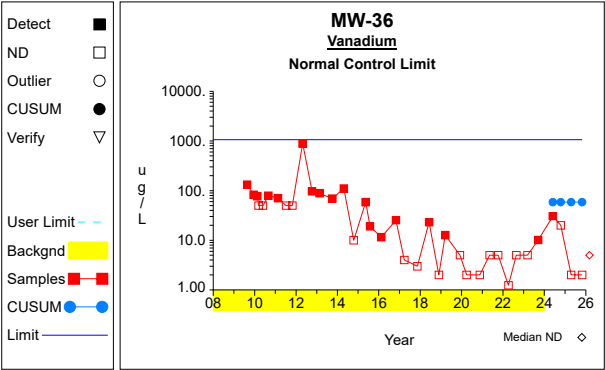
Graph 146



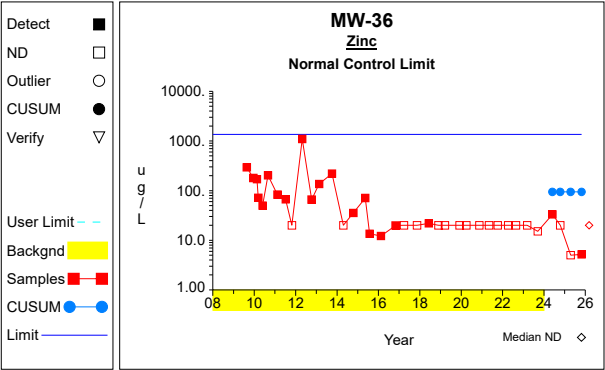
Graph 147



Graph 148

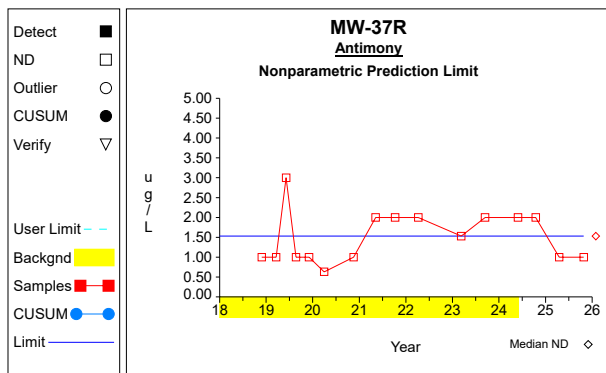


Graph 149

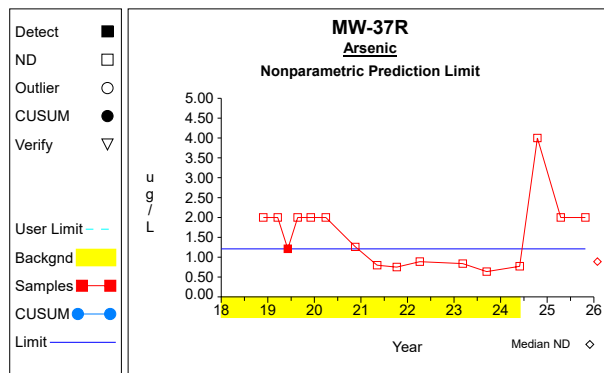


Graph 150

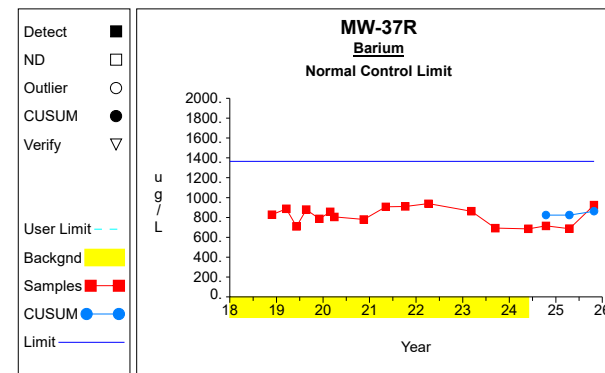
Intra-Well Control Charts / Prediction Limits



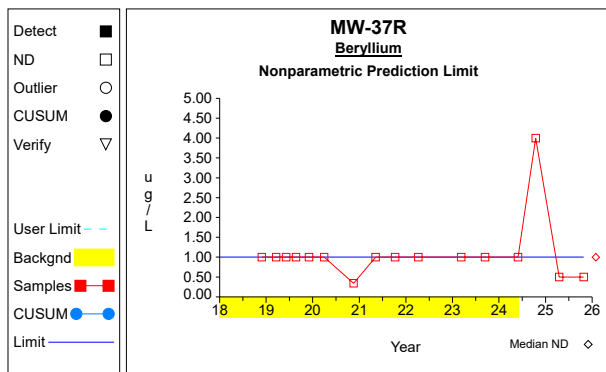
Graph 151



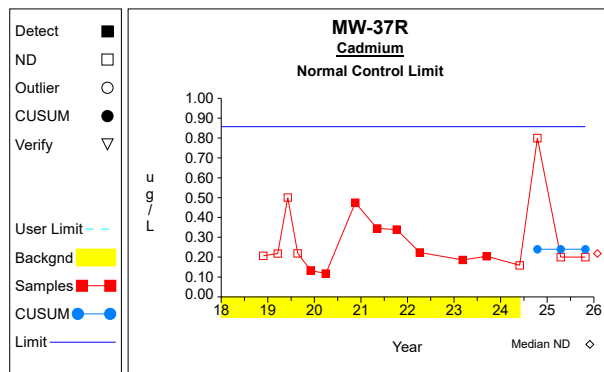
Graph 152



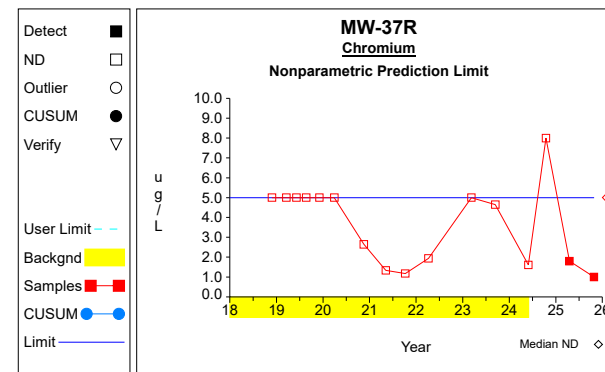
Graph 153



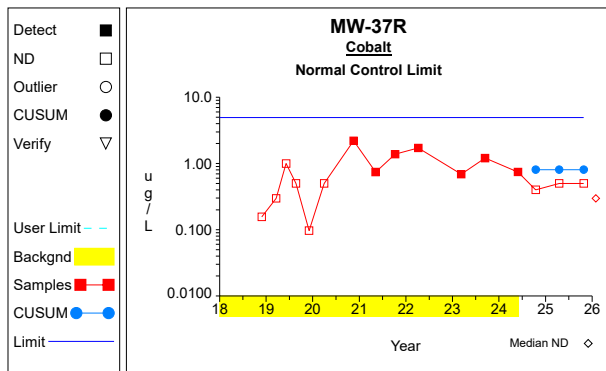
Graph 154



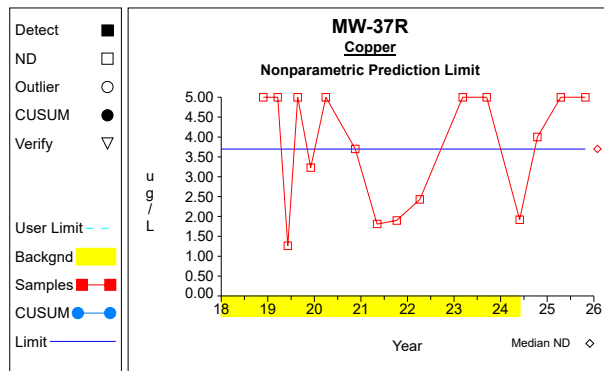
Graph 155



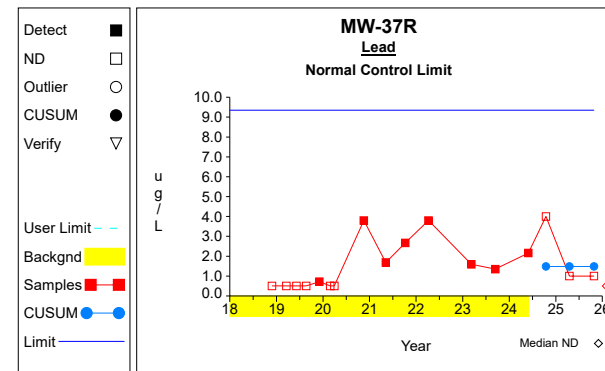
Graph 156



Graph 157

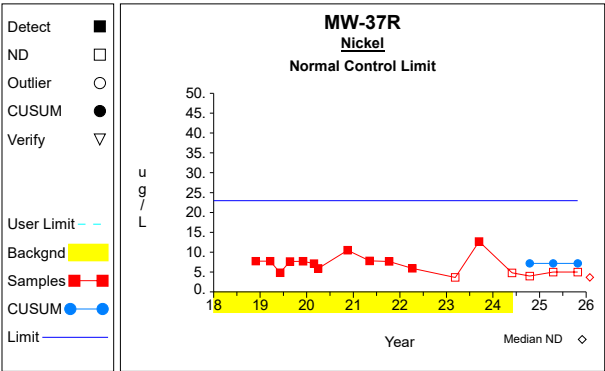


Graph 158

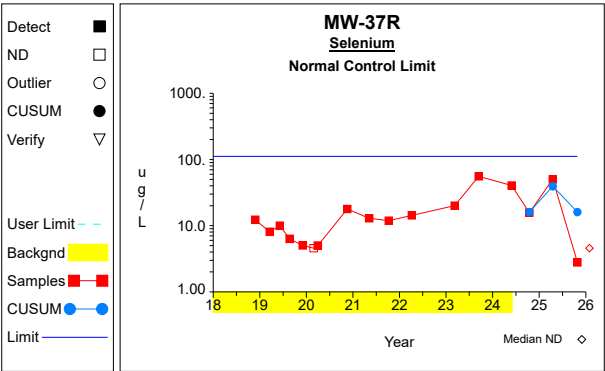


Graph 159

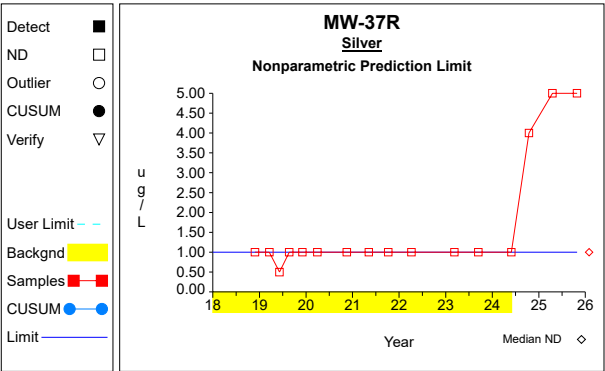
Intra-Well Control Charts / Prediction Limits



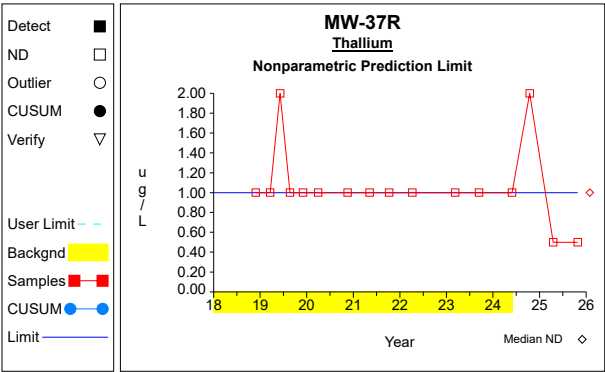
Graph 160



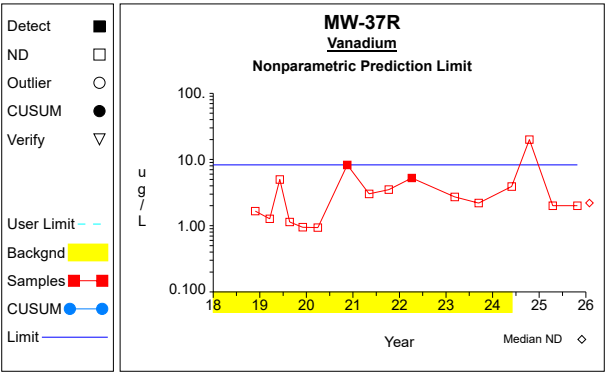
Graph 161



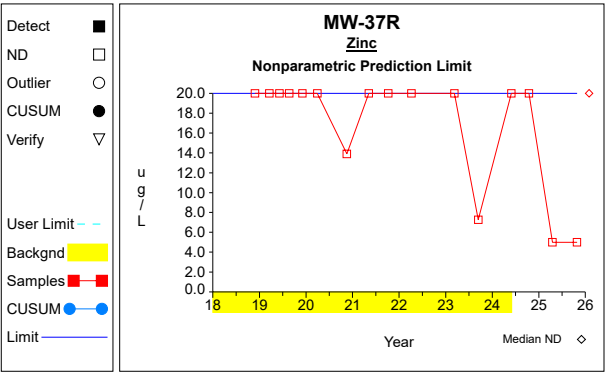
Graph 162



Graph 163

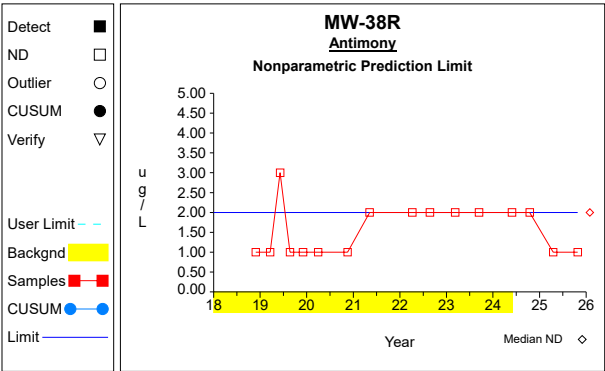


Graph 164

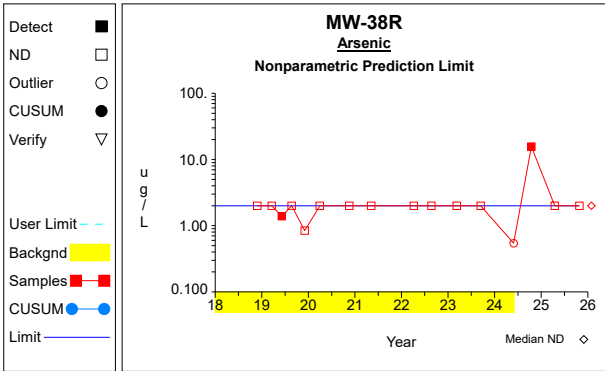


Graph 165

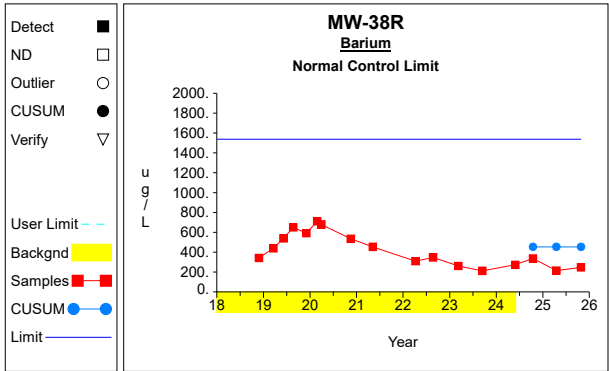
Intra-Well Control Charts / Prediction Limits



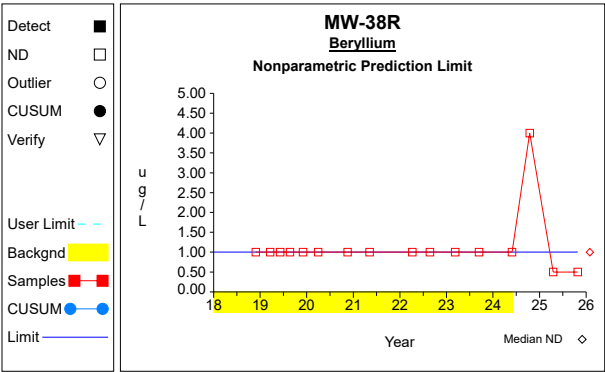
Graph 166



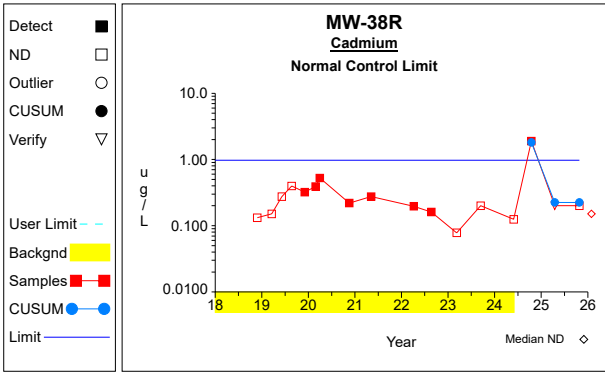
Graph 167



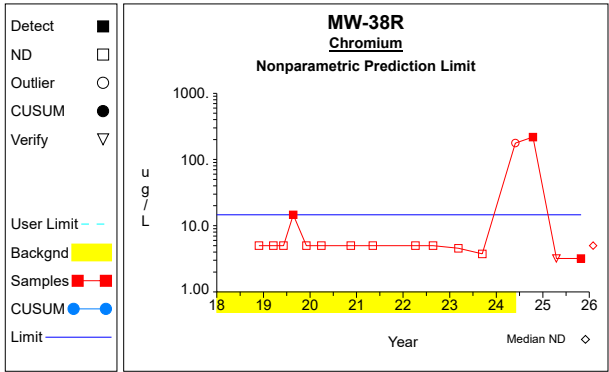
Graph 168



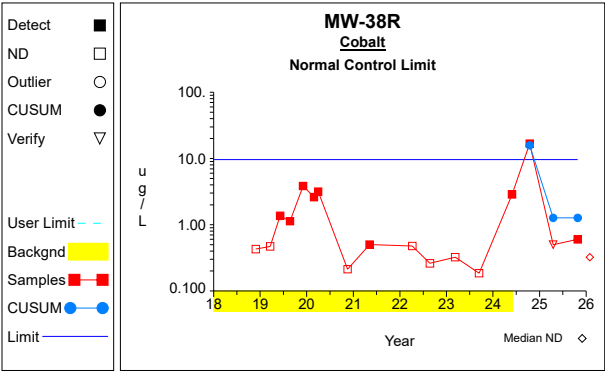
Graph 169



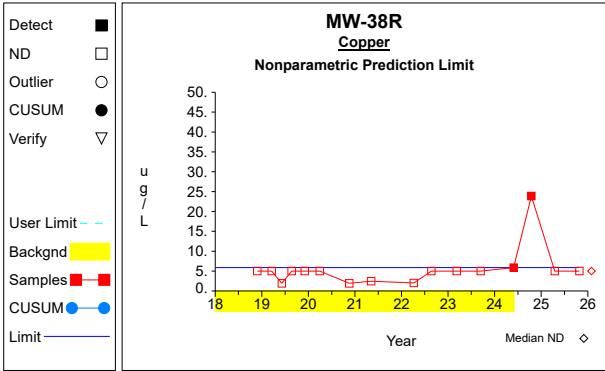
Graph 170



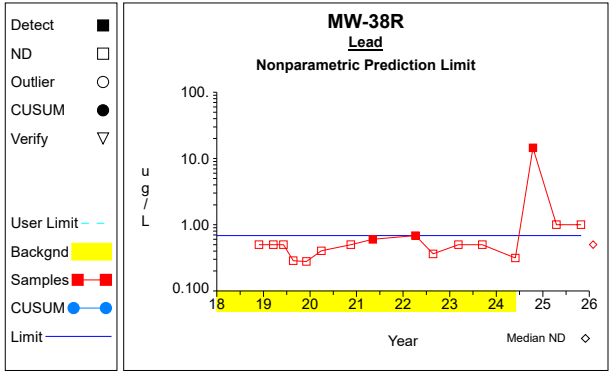
Graph 171



Graph 172

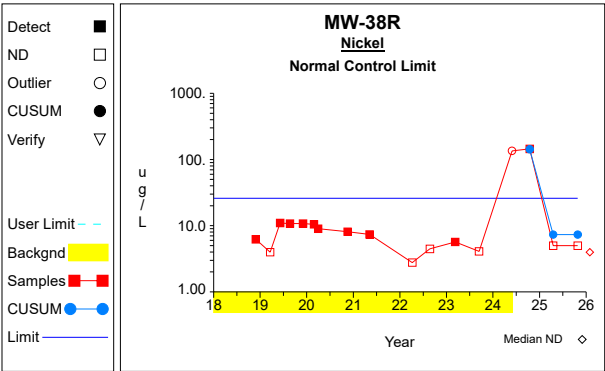


Graph 173

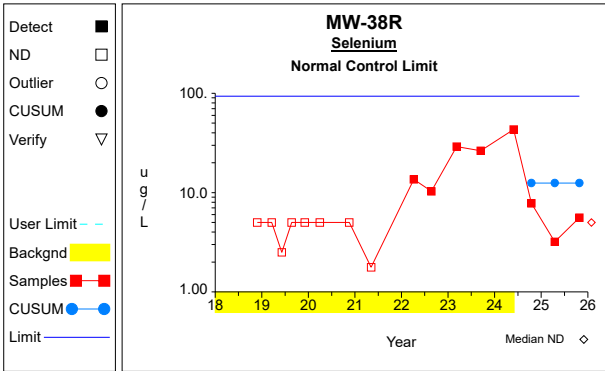


Graph 174

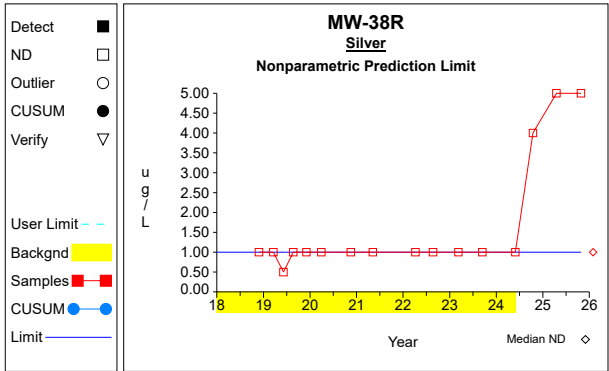
Intra-Well Control Charts / Prediction Limits



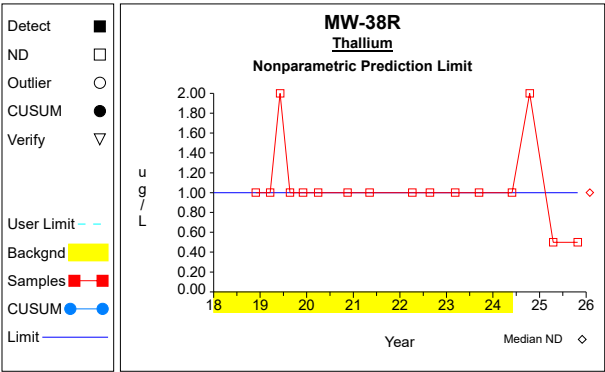
Graph 175



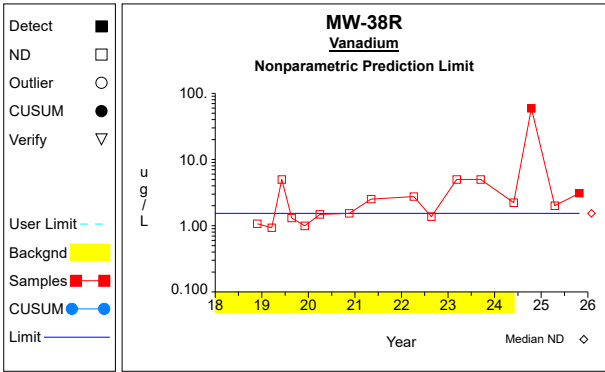
Graph 176



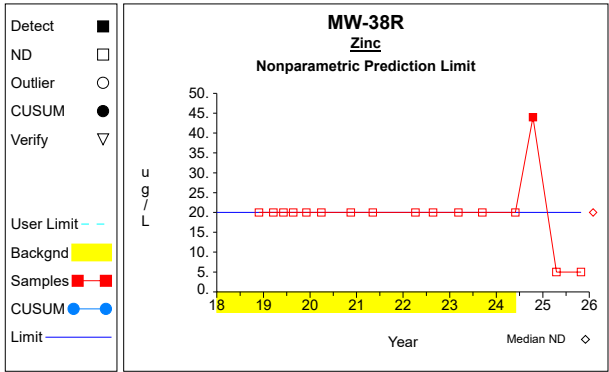
Graph 177



Graph 178

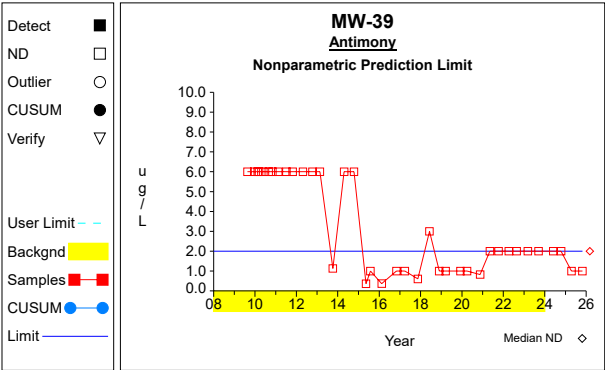


Graph 179

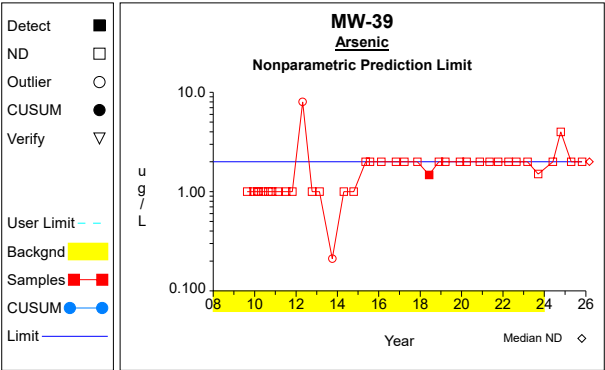


Graph 180

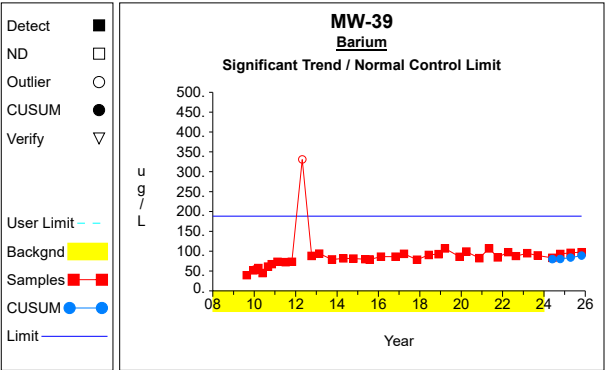
Intra-Well Control Charts / Prediction Limits



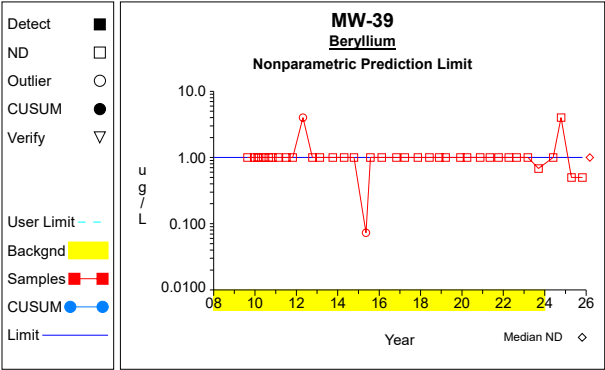
Graph 181



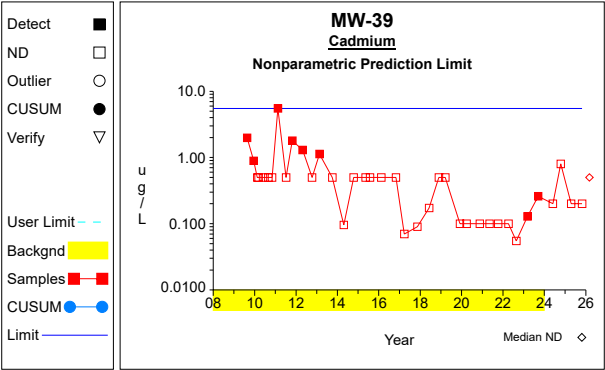
Graph 182



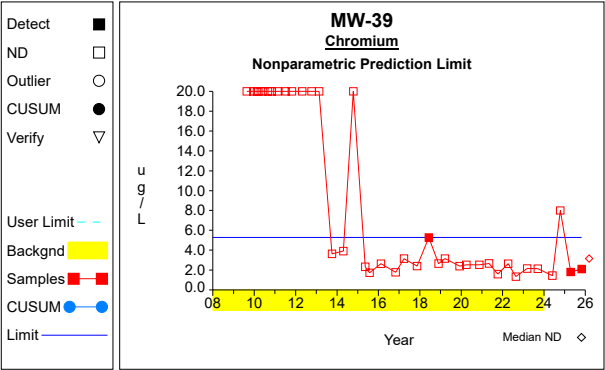
Graph 183



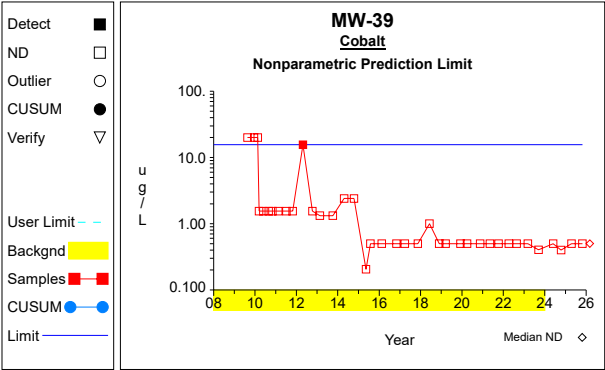
Graph 184



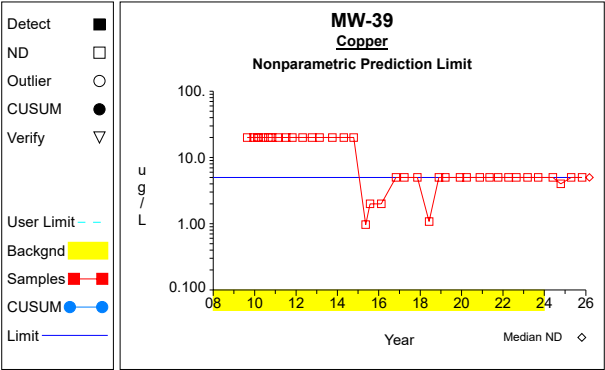
Graph 185



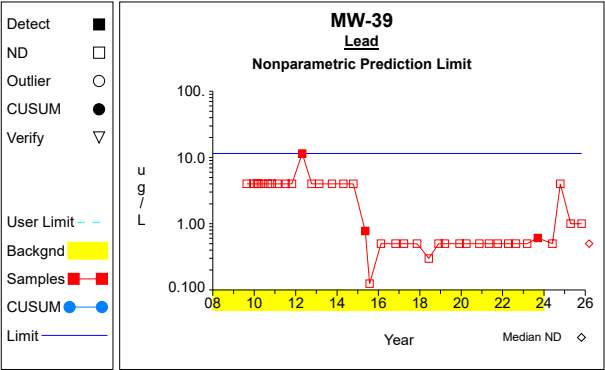
Graph 186



Graph 187

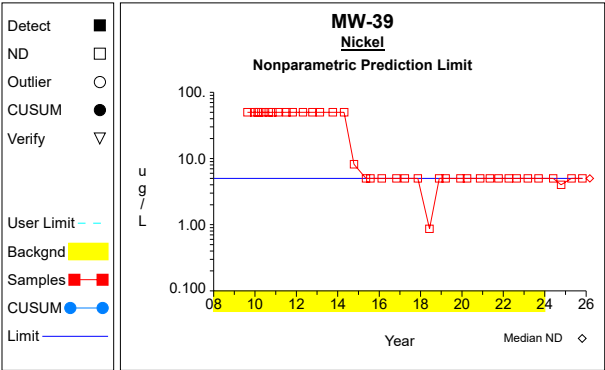


Graph 188

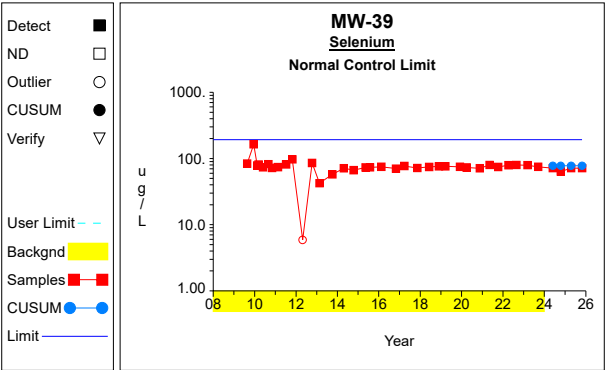


Graph 189

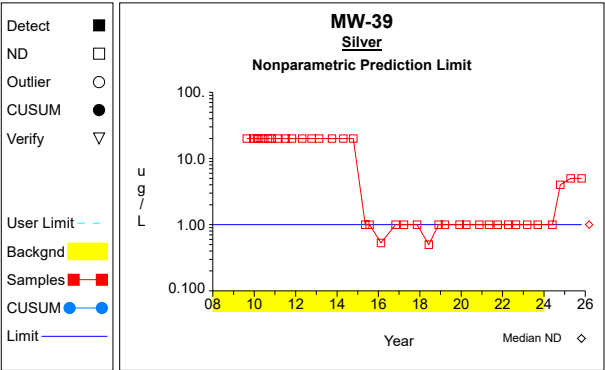
Intra-Well Control Charts / Prediction Limits



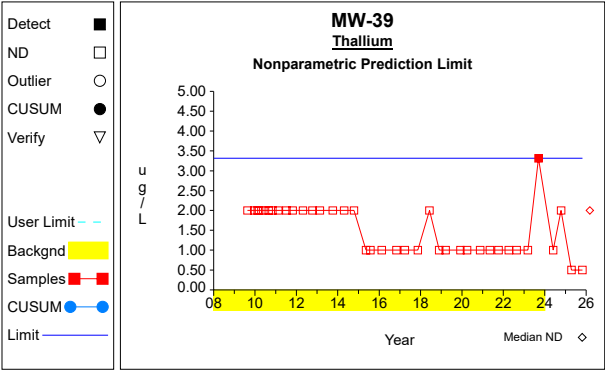
Graph 190



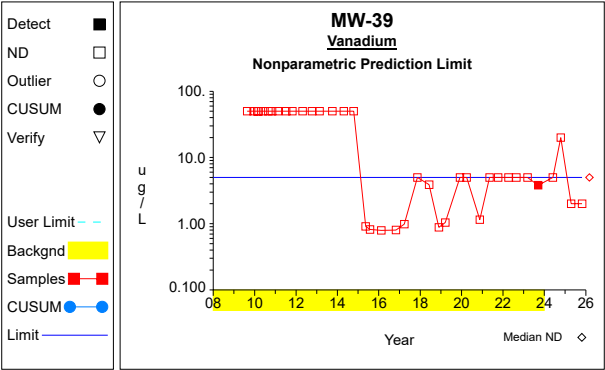
Graph 191



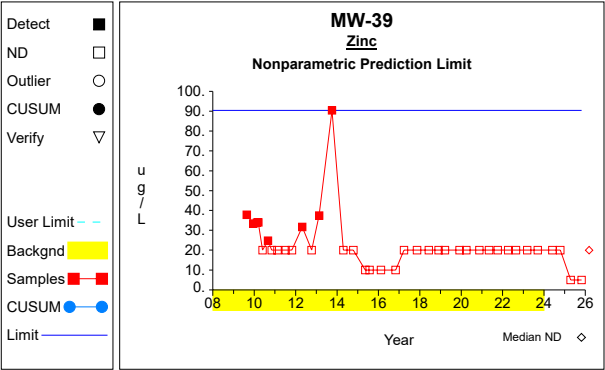
Graph 192



Graph 193

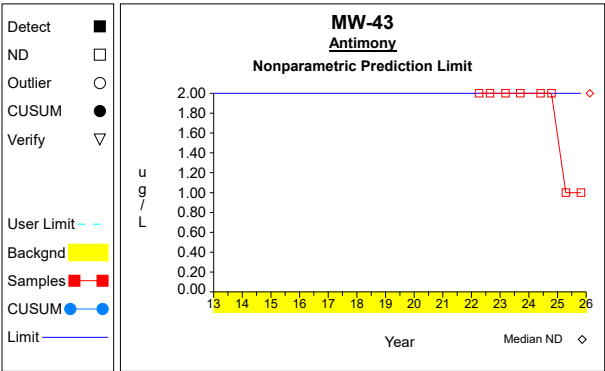


Graph 194

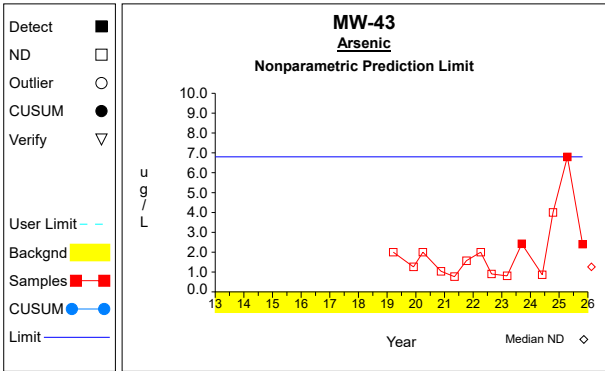


Graph 195

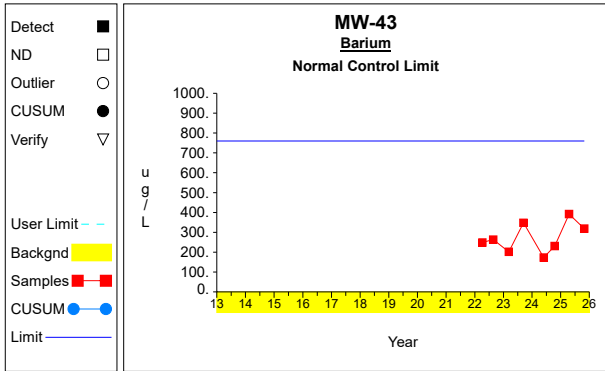
Intra-Well Control Charts / Prediction Limits



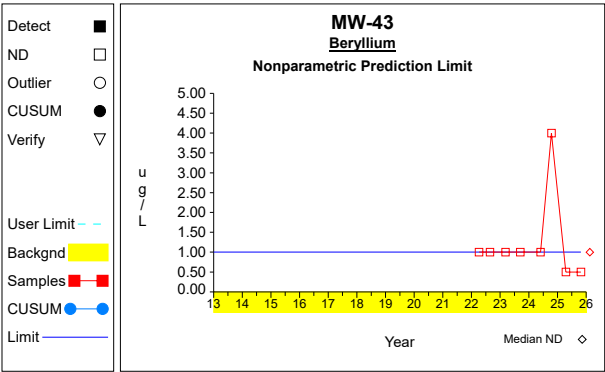
Graph 196



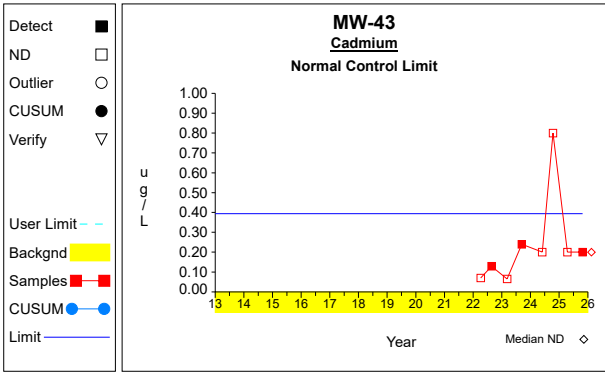
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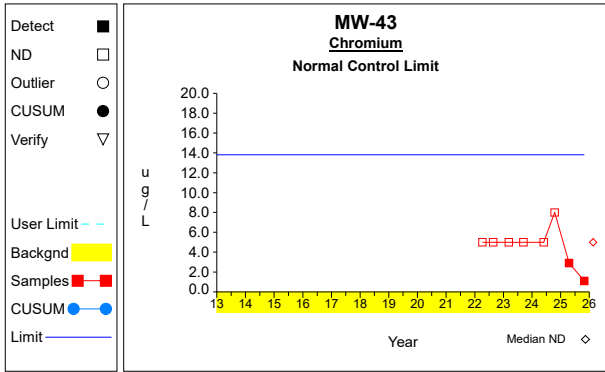
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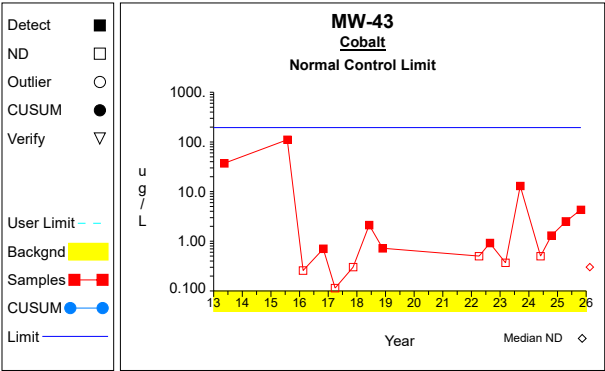
Graph 199



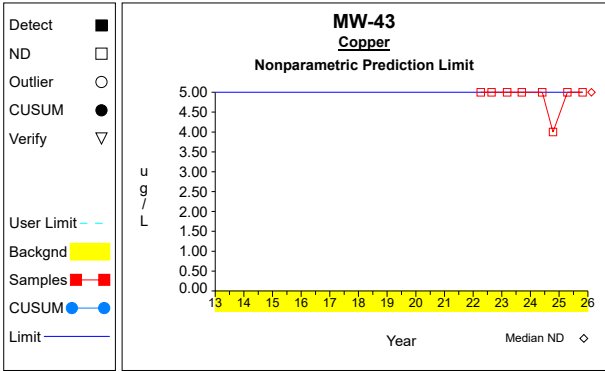
Graph 200



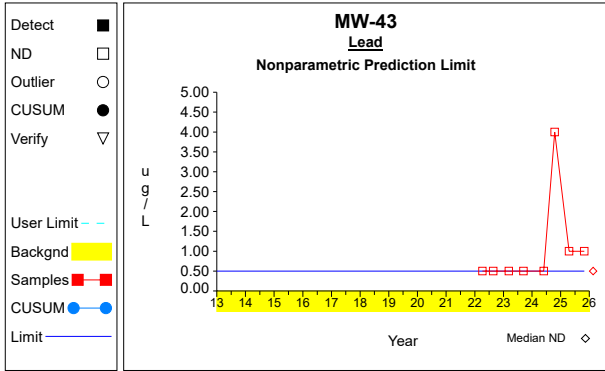
Graph 201



Graph 202

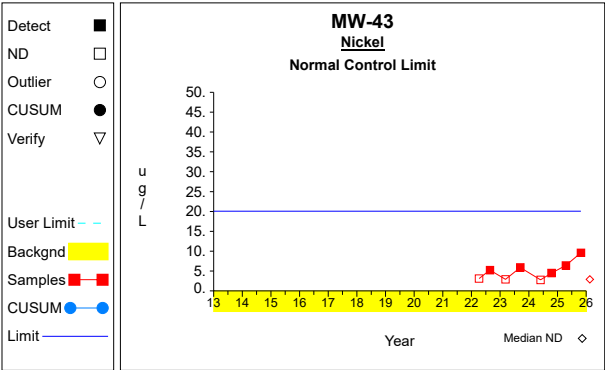


Graph 203

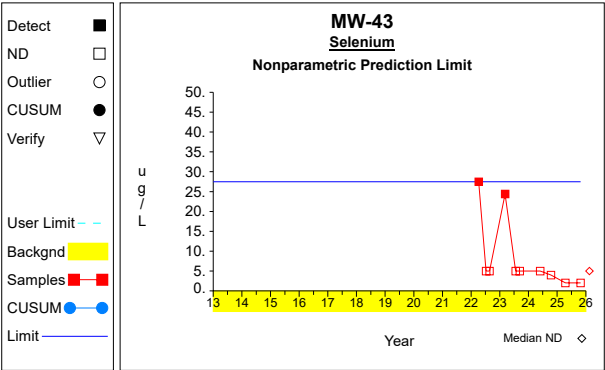


Graph 204

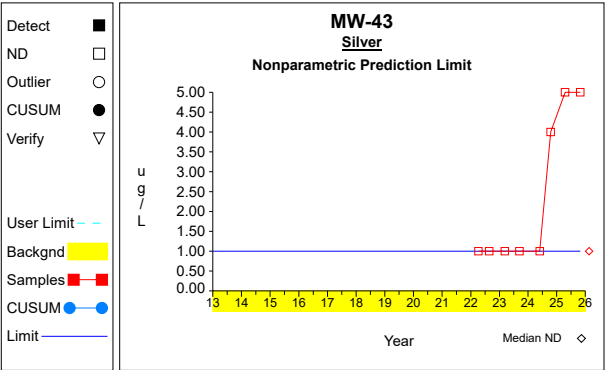
Intra-Well Control Charts / Prediction Limits



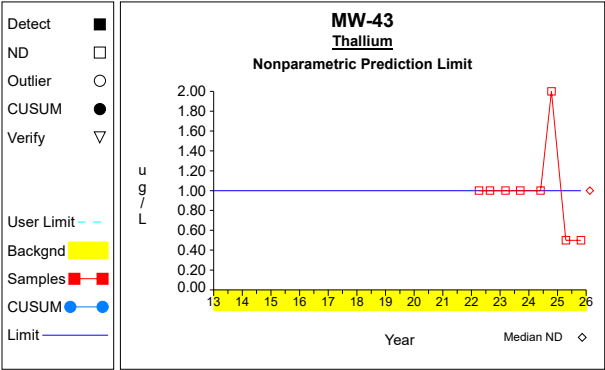
Graph 205



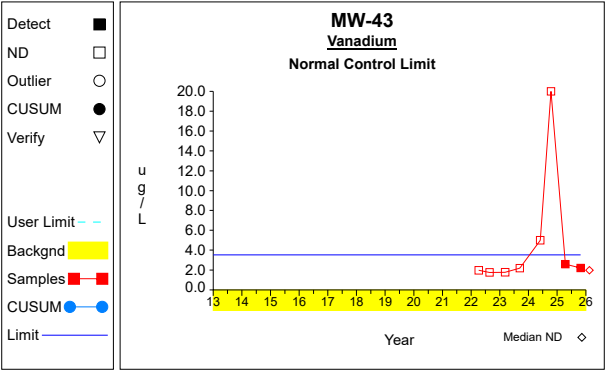
Graph 206



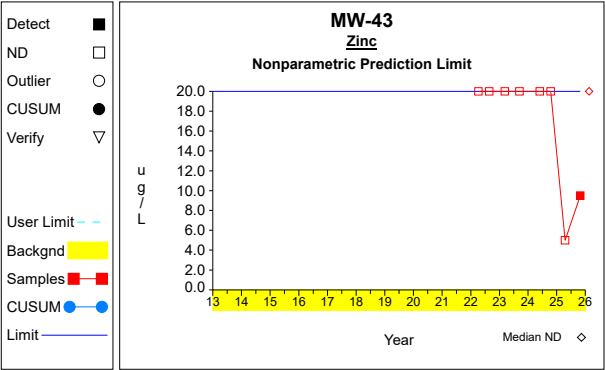
Graph 207



Graph 208



Graph 209



Graph 210

False Positive and False Negative Rates for Current Intra-Well Control Charts Monitoring Program

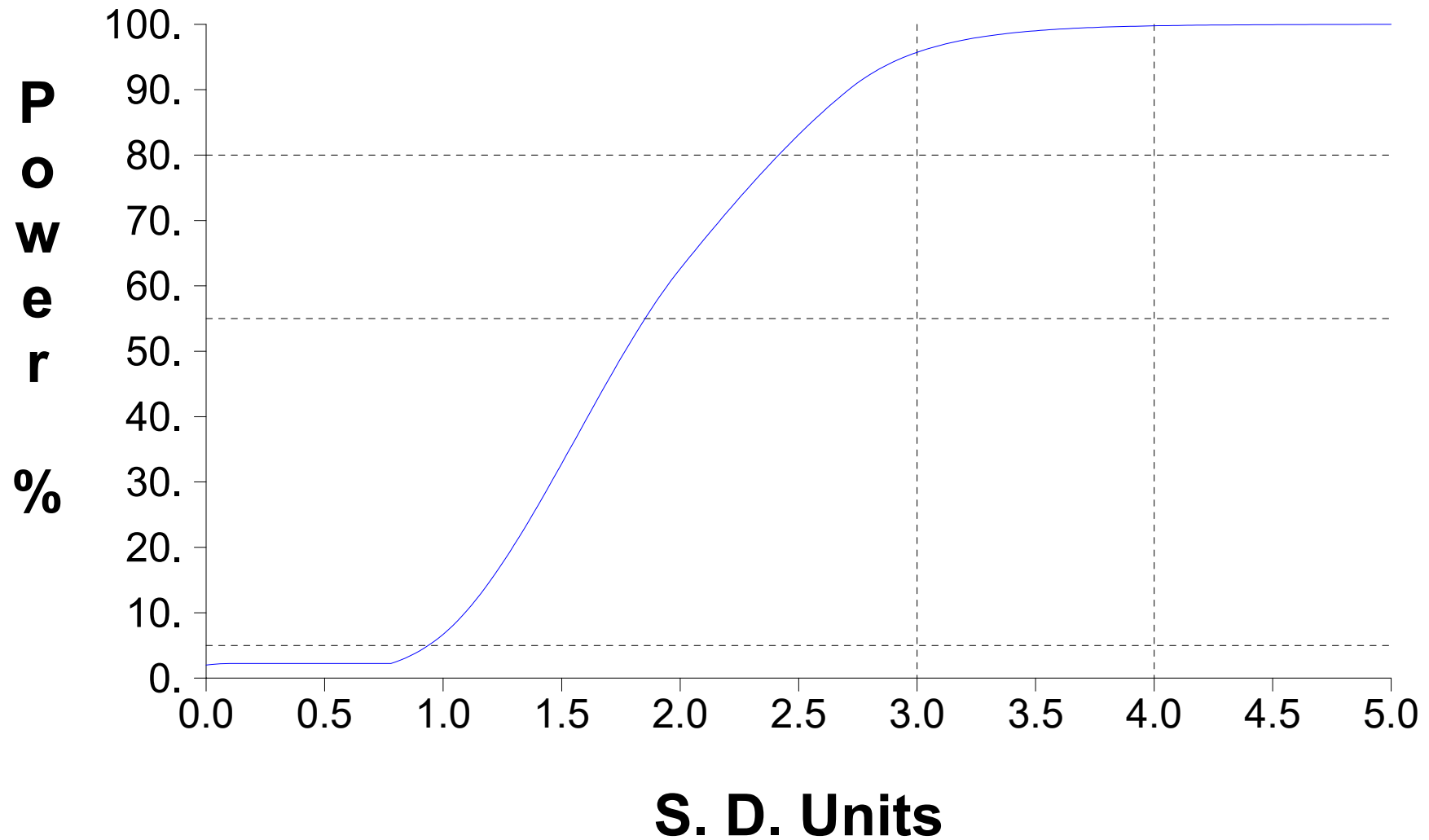


Table 4

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

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Barium	ug/L	MW-11	08/31/2010	148.0000		02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-11	04/30/2008	0.0280	< 0.0280	02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-11	04/26/2012	4.0000	< 4.0000	02/11/2008-09/13/2023	36	0.4273
Selenium	ug/L	MW-11	04/30/2008	1.4400	< 1.4400	02/11/2008-09/13/2023	36	0.4318
Selenium	ug/L	MW-11	03/08/2023	1.3500	< 1.3500	02/11/2008-09/13/2023	36	0.4318
Thallium	ug/L	MW-11	09/13/2023	7.8900		02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-15R	04/26/2012	4.0000	< 4.0000	03/11/2010-09/13/2023	30	0.4556
Arsenic	ug/L	MW-19	07/07/2011	72.5000		02/11/2008-09/13/2023	36	0.4318
Arsenic	ug/L	MW-19	04/26/2012	19.6000		02/11/2008-09/13/2023	36	0.4318
Barium	ug/L	MW-19	07/07/2011	4440.0000		02/11/2008-09/13/2023	37	0.4232
Beryllium	ug/L	MW-19	04/26/2012	4.0000	< 4.0000	02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-19	05/12/2015	0.0760	< 0.0760	02/11/2008-09/13/2023	36	0.4273
Nickel	ug/L	MW-19	04/30/2008	4.6000	< 4.6000	02/11/2008-09/13/2023	37	0.4232
Selenium	ug/L	MW-19	04/30/2008	1.4400	< 1.4400	02/11/2008-09/13/2023	36	0.4318
Selenium	ug/L	MW-19	05/06/2021	1.1300	< 1.1300	02/11/2008-09/13/2023	36	0.4318
Thallium	ug/L	MW-19	07/29/2015	0.0440	< 0.0440	02/11/2008-09/13/2023	36	0.4318
Thallium	ug/L	MW-19	02/15/2016	0.0350	< 0.0350	02/11/2008-09/13/2023	36	0.4318
Arsenic	ug/L	MW-20	09/11/2008	6.6000		09/11/2008-09/13/2023	33	0.4448
Arsenic	ug/L	MW-20	08/23/2022	7.7800	< 7.7800	09/11/2008-09/13/2023	33	0.4448
Barium	ug/L	MW-20	09/11/2008	646.0000		09/11/2008-09/13/2023	33	0.4405
Beryllium	ug/L	MW-20	04/26/2012	4.0000	< 4.0000	09/11/2008-09/13/2023	33	0.4448
Beryllium	ug/L	MW-20	05/12/2015	0.0900	< 0.0900	09/11/2008-09/13/2023	33	0.4405
Beryllium	ug/L	MW-20	10/07/2021	4.0000	< 4.0000	09/11/2008-09/13/2023	33	0.4448
Selenium	ug/L	MW-20	04/26/2012	27.4000		09/11/2008-09/13/2023	33	0.4405
Selenium	ug/L	MW-20	05/06/2021	1.3900	< 1.3900	09/11/2008-09/13/2023	33	0.4448
Selenium	ug/L	MW-20	03/08/2023	1.0800	< 1.0800	09/11/2008-09/13/2023	33	0.4448
Silver	ug/L	MW-20	05/12/2015	0.0810	< 0.0810	09/11/2008-09/13/2023	33	0.4405
Arsenic	ug/L	MW-21	04/26/2012	46.3000		12/23/2008-09/13/2023	32	0.4448
Barium	ug/L	MW-21	03/18/2019	236.0000		12/23/2008-09/13/2023	32	0.4448
Beryllium	ug/L	MW-21	04/26/2012	10.4000		12/23/2008-09/13/2023	32	0.4448
Beryllium	ug/L	MW-21	04/22/2014	0.2460	< 0.2460	12/23/2008-09/13/2023	32	0.4448
Chromium	ug/L	MW-21	10/31/2016	0.5750	< 0.5750	12/23/2008-09/13/2023	32	0.4448
Cobalt	ug/L	MW-21	04/26/2012	224.0000		12/23/2008-09/13/2023	32	0.4448
Cobalt	ug/L	MW-21	02/15/2016	0.0740	< 0.0740	12/23/2008-09/13/2023	32	0.4448
Copper	ug/L	MW-21	04/26/2012	127.0000		12/23/2008-09/13/2023	32	0.4448
Lead	ug/L	MW-21	04/26/2012	778.0000		12/23/2008-09/13/2023	32	0.4448
Selenium	ug/L	MW-21	08/21/2009	18.9000		12/23/2008-09/13/2023	32	0.4448
Selenium	ug/L	MW-21	05/06/2021	1.0500	< 1.0500	12/23/2008-09/13/2023	32	0.4448
Antimony	ug/L	MW-22	03/28/2016	236.0000		02/11/2008-09/13/2023	34	0.4359
Arsenic	ug/L	MW-22	04/26/2012	4.0000	< 4.0000	02/11/2008-09/13/2023	34	0.4359
Beryllium	ug/L	MW-22	04/30/2008	0.0280	< 0.0280	02/11/2008-09/13/2023	34	0.4359
Beryllium	ug/L	MW-22	04/26/2012	4.0000	< 4.0000	02/11/2008-09/13/2023	34	0.4359
Chromium	ug/L	MW-22	03/28/2016	1.0000	< 1.0000	02/11/2008-09/13/2023	34	0.4359
Zinc	ug/L	MW-22	04/30/2008	5.2700	< 5.2700	02/11/2008-09/13/2023	34	0.4359
Zinc	ug/L	MW-22	07/29/2015	97.4000		02/11/2008-09/13/2023	34	0.4359
Beryllium	ug/L	MW-23	04/30/2008	0.0280	< 0.0280	02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-23	03/03/2009	3.7200		02/11/2008-09/13/2023	36	0.4318
Beryllium	ug/L	MW-23	04/26/2012	4.0000	< 4.0000	02/11/2008-09/13/2023	36	0.4318
Selenium	ug/L	MW-23	04/26/2012	44.6000		02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-24	10/15/2024	4.0000	< 4.0000	04/06/2022-10/27/2025	9	0.6346

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 4

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

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Chromium	ug/L	MW-24	04/16/2025	1.1000		04/06/2022-10/27/2025	9	0.6808
Chromium	ug/L	MW-24	10/27/2025	1.1000		04/06/2022-10/27/2025	9	0.6808
Cobalt	ug/L	MW-24	03/18/2019	0.2620	< 0.2620	04/26/2012-10/27/2025	13	0.6174
Lead	ug/L	MW-24	10/15/2024	4.0000	< 4.0000	04/06/2022-10/27/2025	9	0.6346
Zinc	ug/L	MW-24	04/16/2025	5.0000	< 5.0000	04/06/2022-10/27/2025	9	0.6808
Zinc	ug/L	MW-24	10/27/2025	5.0000	< 5.0000	04/06/2022-10/27/2025	9	0.6808
Arsenic	ug/L	MW-36	04/26/2012	138.0000		08/21/2009-09/13/2023	33	0.4405
Chromium	ug/L	MW-36	04/26/2012	176.0000		08/21/2009-09/13/2023	33	0.4405
Arsenic	ug/L	MW-38R	05/29/2024	0.5430	< 0.5430	11/27/2018-05/29/2024	13	0.6174
Chromium	ug/L	MW-38R	05/29/2024	177.0000		11/27/2018-05/29/2024	13	0.6174
Nickel	ug/L	MW-38R	05/29/2024	135.0000		11/27/2018-05/29/2024	14	0.6403
Arsenic	ug/L	MW-39	04/26/2012	8.0000		08/21/2009-09/13/2023	34	0.4359
Arsenic	ug/L	MW-39	10/03/2013	0.2110	< 0.2110	08/21/2009-09/13/2023	34	0.4359
Barium	ug/L	MW-39	04/26/2012	331.0000		08/21/2009-09/13/2023	34	0.4359
Beryllium	ug/L	MW-39	04/26/2012	4.0000	< 4.0000	08/21/2009-09/13/2023	34	0.4359
Beryllium	ug/L	MW-39	05/12/2015	0.0730	< 0.0730	08/21/2009-09/13/2023	34	0.4359
Selenium	ug/L	MW-39	04/26/2012	5.9000		08/21/2009-09/13/2023	34	0.4359

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.

Attachment E

Summary Tables and Graphs for the LCL Comparisons – 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	
Antimony	ug/L	MW-11	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-11	4	7.493	7.286	1.176	0.000	16.064	10.000		
Barium	ug/L	MW-11	4	413.250	176.543	1.176	205.584	620.916	2000.000		
Chromium	ug/L	MW-11	4	2.625	1.436	1.176	0.936	4.314	100.000		
Cobalt	ug/L	MW-11	4	6.483	5.505	1.176	0.007	12.958	2.100		
Copper	ug/L	MW-11	4	52.525	39.204	1.176	6.410	98.640	1300.000		
Lead	ug/L	MW-11	4	1.125	1.250	1.176	0.000	2.595	15.000		
Nickel	ug/L	MW-11	4	10.108	8.670	1.176	0.000	20.306	100.000	dec	
Selenium	ug/L	MW-11	4	2.500	0.000	1.176	2.500	2.500	50.000		
Vanadium	ug/L	MW-11	4	3.750	2.500	1.176	0.809	6.691	35.000		
Zinc	ug/L	MW-11	4	62.725	54.687	1.176	0.000	127.053	2000.000		
Antimony	ug/L	MW-13	3								*
Arsenic	ug/L	MW-13	3								*
Barium	ug/L	MW-13	3								*
Chromium	ug/L	MW-13	3								*
Cobalt	ug/L	MW-13	3								*
Copper	ug/L	MW-13	3								*
Lead	ug/L	MW-13	3								*
Nickel	ug/L	MW-13	3								*
Selenium	ug/L	MW-13	3								*
Vanadium	ug/L	MW-13	3								*
Zinc	ug/L	MW-13	3								*
Antimony	ug/L	MW-15R	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-15R	4	10.000	6.891	1.176	1.895	18.105	10.000		
Barium	ug/L	MW-15R	4	490.250	167.018	1.176	293.789	686.711	2000.000	inc	
Chromium	ug/L	MW-15R	4	1.925	0.427	1.176	1.422	2.428	100.000		
Cobalt	ug/L	MW-15R	4	4.200	2.624	1.176	1.113	7.287	2.100		
Copper	ug/L	MW-15R	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-15R	4	0.438	0.375	1.176	0.000	0.879	15.000		
Nickel	ug/L	MW-15R	4	4.450	2.253	1.176	1.800	7.100	100.000		
Selenium	ug/L	MW-15R	4	2.500	0.000	1.176	2.500	2.500	50.000		
Vanadium	ug/L	MW-15R	4	3.175	1.350	1.176	1.587	4.763	35.000		
Zinc	ug/L	MW-15R	4	9.875	3.448	1.176	5.819	13.931	2000.000		
Antimony	ug/L	MW-19	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-19	4	1.415	1.390	1.176	0.000	3.050	10.000		
Barium	ug/L	MW-19	4	1079.000	115.891	1.176	942.679	1215.321	2000.000	inc	
Chromium	ug/L	MW-19	4	2.125	0.568	1.176	1.457	2.793	100.000		
Cobalt	ug/L	MW-19	4	22.775	2.525	1.176	19.805	25.745	2.100	inc	**
Copper	ug/L	MW-19	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-19	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-19	4	56.525	2.896	1.176	53.118	59.932	100.000		
Selenium	ug/L	MW-19	4	2.500	0.000	1.176	2.500	2.500	50.000		
Vanadium	ug/L	MW-19	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-19	4	9.975	3.389	1.176	5.989	13.961	2000.000		
Antimony	ug/L	MW-20	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-20	4	86.800	18.175	1.176	65.421	108.179	10.000		**
Barium	ug/L	MW-20	4	1977.500	348.557	1.176	1567.497	2387.503	2000.000	dec	
Chromium	ug/L	MW-20	4	2.050	0.526	1.176	1.431	2.669	100.000		
Cobalt	ug/L	MW-20	4	7.060	2.654	1.176	3.938	10.182	2.100	dec	**
Copper	ug/L	MW-20	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-20	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-20	4	25.675	18.488	1.176	3.928	47.422	100.000	dec	
Selenium	ug/L	MW-20	4	2.500	0.000	1.176	2.500	2.500	50.000		
Vanadium	ug/L	MW-20	4	2.325	0.126	1.176	2.177	2.473	35.000		
Zinc	ug/L	MW-20	4	10.300	0.600	1.176	9.594	11.006	2000.000		
Antimony	ug/L	MW-21	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-21	4	5.715	5.685	1.176	0.000	12.402	10.000		
Barium	ug/L	MW-21	4	991.000	242.990	1.176	705.174	1276.826	2000.000		
Chromium	ug/L	MW-21	4	2.000	0.583	1.176	1.314	2.686	100.000		
Cobalt	ug/L	MW-21	4	11.413	5.998	1.176	4.358	18.467	2.100		**
Copper	ug/L	MW-21	4	3.725	2.450	1.176	0.843	6.607	1300.000		
Lead	ug/L	MW-21	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-21	4	16.300	8.304	1.176	6.532	26.068	100.000		
Selenium	ug/L	MW-21	4	2.500	0.000	1.176	2.500	2.500	50.000		
Vanadium	ug/L	MW-21	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-21	4	14.525	9.050	1.176	3.880	25.170	2000.000		
Antimony	ug/L	MW-22	4	4.498	1.897	1.066	2.476	6.519	6.000		
Arsenic	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	10.000		
Barium	ug/L	MW-22	4	246.000	25.219	1.176	216.335	275.665	2000.000		
Chromium	ug/L	MW-22	4	2.300	0.400	1.176	1.829	2.771	100.000		
Cobalt	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	2.100		
Copper	ug/L	MW-22	4	2.500	0.000	1.176	2.500	2.500	1300.000		

* - Insufficient Data

** - Significant Exceedance

LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

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	
Lead	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	15.000		
Nickel	ug/L	MW-22	4	2.500	0.000	1.176	2.500	2.500	100.000		
Selenium	ug/L	MW-22	4	2.000	0.000	1.176	2.000	2.000	50.000		
Vanadium	ug/L	MW-22	4	1.005	0.000	1.176	1.005	1.005	35.000		
Zinc	ug/L	MW-22	4	8.900	2.200	1.176	6.312	11.488	2000.000		
Antimony	ug/L	MW-23	4	1.050	0.100	1.176	0.932	1.168	6.000		
Arsenic	ug/L	MW-23	4	1.250	0.500	1.176	0.662	1.838	10.000		
Barium	ug/L	MW-23	4	60.825	65.221	1.176	0.000	137.544	2000.000	dec	
Chromium	ug/L	MW-23	4	2.700	0.927	1.176	1.609	3.791	100.000		
Cobalt	ug/L	MW-23	4	0.475	0.050	1.176	0.416	0.534	2.100		
Copper	ug/L	MW-23	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-23	4	0.500	0.000	1.176	0.500	0.500	15.000		
Nickel	ug/L	MW-23	4	2.500	0.000	1.176	2.500	2.500	100.000		
Selenium	ug/L	MW-23	4	1.095	0.000	1.176	1.095	1.095	50.000		
Vanadium	ug/L	MW-23	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-23	4	13.138	11.198	1.176	0.000	26.309	2000.000		
Antimony	ug/L	MW-24	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-24	4	6.059	4.452	1.176	0.822	11.296	10.000		
Barium	ug/L	MW-24	4	669.500	88.327	1.176	565.602	773.398	2000.000		
Chromium	ug/L	MW-24	4	1.800	0.808	1.176	0.849	2.751	100.000		
Cobalt	ug/L	MW-24	4	2.855	1.037	1.176	1.636	4.074	2.100		
Copper	ug/L	MW-24	4	3.025	1.050	1.176	1.790	4.260	1300.000		
Lead	ug/L	MW-24	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-24	4	30.250	2.660	1.176	27.121	33.379	100.000		
Selenium	ug/L	MW-24	4	2.500	0.000	1.176	2.500	2.500	50.000		
Vanadium	ug/L	MW-24	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-24	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-36	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-36	4	1.875	1.750	1.176	0.000	3.934	10.000		
Barium	ug/L	MW-36	4	183.000	53.907	1.176	119.589	246.411	2000.000	dec	
Chromium	ug/L	MW-36	4	13.775	20.864	1.176	0.000	38.317	100.000		
Cobalt	ug/L	MW-36	4	9.975	11.345	1.176	0.000	23.320	2.100	dec	
Copper	ug/L	MW-36	4	5.800	4.530	1.176	0.472	11.128	1300.000		
Lead	ug/L	MW-36	4	1.820	3.140	1.176	0.000	5.514	15.000	dec	
Nickel	ug/L	MW-36	4	37.125	56.688	1.176	0.000	103.807	100.000		
Selenium	ug/L	MW-36	4	2.675	2.350	1.176	0.000	5.439	50.000		
Vanadium	ug/L	MW-36	4	9.550	14.100	1.176	0.000	26.136	35.000		
Zinc	ug/L	MW-36	4	14.600	12.605	1.176	0.000	29.427	2000.000	dec	
Antimony	ug/L	MW-37R	4	0.500	0.000	1.176	0.500	0.500	6.000		
Arsenic	ug/L	MW-37R	4	1.000	0.000	1.176	1.000	1.000	10.000		
Barium	ug/L	MW-37R	4	753.250	115.286	1.176	617.640	888.860	2000.000		
Chromium	ug/L	MW-37R	4	1.950	0.714	1.176	1.110	2.790	100.000		
Cobalt	ug/L	MW-37R	4	0.374	0.247	1.176	0.083	0.664	2.100		
Copper	ug/L	MW-37R	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Lead	ug/L	MW-37R	4	0.728	0.955	1.176	0.000	1.851	15.000		
Nickel	ug/L	MW-37R	4	2.400	0.000	1.176	2.400	2.400	100.000		
Selenium	ug/L	MW-37R	4	27.350	21.876	1.176	1.617	53.083	50.000		
Vanadium	ug/L	MW-37R	4	1.000	0.000	1.176	1.000	1.000	35.000		
Zinc	ug/L	MW-37R	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-38R	4	0.500	0.000	1.176	0.500	0.500	6.000		
Arsenic	ug/L	MW-38R	4	4.675	7.350	1.176	0.000	13.321	10.000		
Barium	ug/L	MW-38R	4	268.000	51.756	1.176	207.120	328.880	2000.000	dec	
Chromium	ug/L	MW-38R	4	100.350	113.421	1.176	0.000	233.766	100.000		
Cobalt	ug/L	MW-38R	4	5.193	7.815	1.176	0.000	14.386	2.100		
Copper	ug/L	MW-38R	4	8.695	10.261	1.176	0.000	20.765	1300.000		
Lead	ug/L	MW-38R	4	3.813	7.125	1.176	0.000	12.194	15.000		
Nickel	ug/L	MW-38R	4	71.023	79.753	1.176	0.000	164.835	100.000		
Selenium	ug/L	MW-38R	4	14.950	18.927	1.176	0.000	37.213	50.000		
Vanadium	ug/L	MW-38R	4	15.985	28.898	1.176	0.000	49.977	35.000		
Zinc	ug/L	MW-38R	4	18.500	17.000	1.176	0.000	38.497	2000.000		
Antimony	ug/L	MW-39	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-39	4	1.000	0.000	1.176	1.000	1.000	10.000		
Barium	ug/L	MW-39	4	92.425	6.347	1.176	84.959	99.891	2000.000	inc	
Chromium	ug/L	MW-39	4	1.765	0.246	1.176	1.475	2.055	100.000		
Cobalt	ug/L	MW-39	4	0.250	0.000	1.176	0.250	0.250	2.100		
Copper	ug/L	MW-39	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-39	4	0.500	0.000	1.176	0.500	0.500	15.000		
Nickel	ug/L	MW-39	4	2.500	0.000	1.176	2.500	2.500	100.000		
Selenium	ug/L	MW-39	4	69.500	3.934	1.176	64.873	74.127	50.000		
Vanadium	ug/L	MW-39	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-39	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-43	4	1.000	0.000	1.176	1.000	1.000	6.000		

* - Insufficient Data

** - Significant Exceedance

LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

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	ug/L	MW-43	4	2.615	2.912	1.176	0.000	6.040	10.000		
Barium	ug/L	MW-43	4	278.750	96.452	1.176	165.295	392.205	2000.000		
Chromium	ug/L	MW-43	4	2.250	0.790	1.176	1.321	3.179	100.000		
Cobalt	ug/L	MW-43	4	2.063	1.773	1.176	0.000	4.149	2.100		
Copper	ug/L	MW-43	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-43	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-43	4	5.489	3.415	1.176	1.472	9.505	100.000		
Selenium	ug/L	MW-43	4	2.500	0.000	1.176	2.500	2.500	50.000		
Vanadium	ug/L	MW-43	4	1.695	0.830	1.176	0.718	2.672	35.000		
Zinc	ug/L	MW-43	4	9.875	0.250	1.176	9.581	10.169	2000.000		

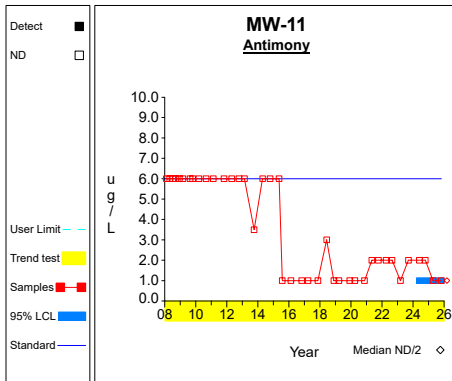
* - Insufficient Data

** - Significant Exceedance

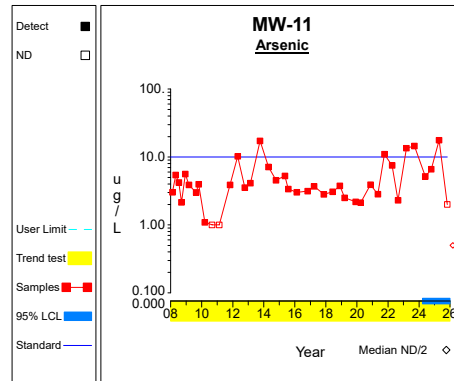
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

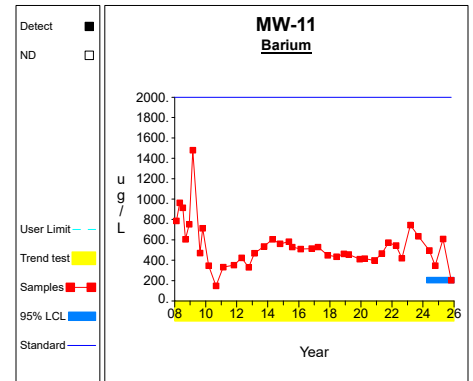
Confidence Limits (Assessment)



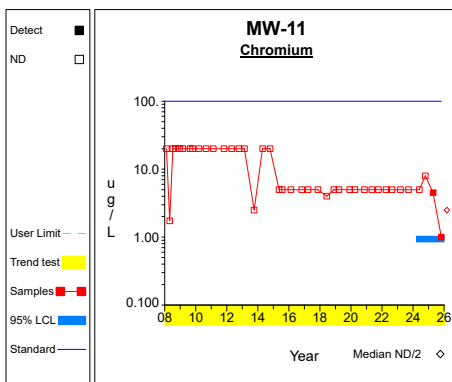
Graph 1



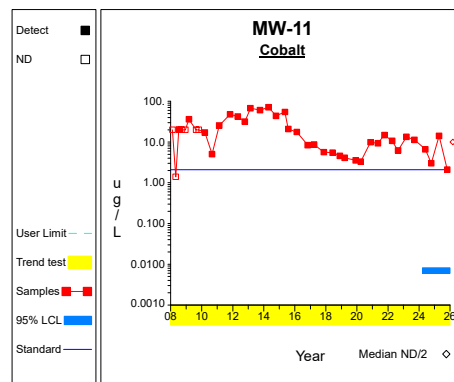
Graph 2



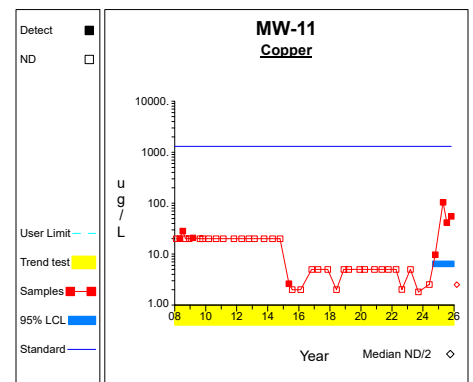
Graph 3



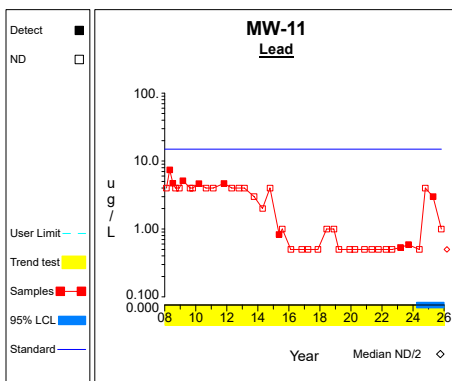
Graph 4



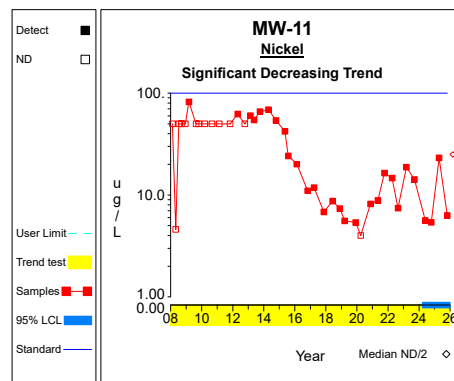
Graph 5



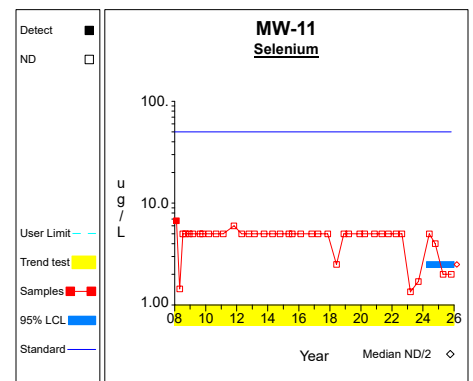
Graph 6



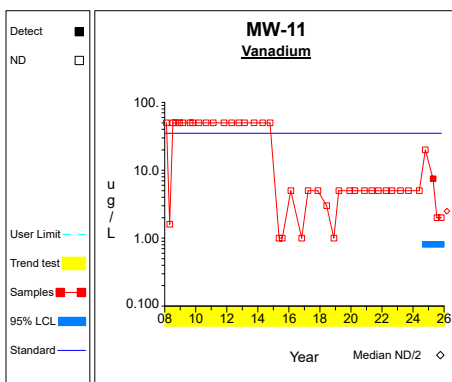
Graph 7



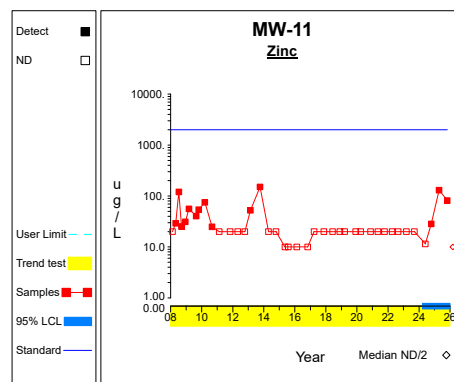
Graph 8



Graph 9

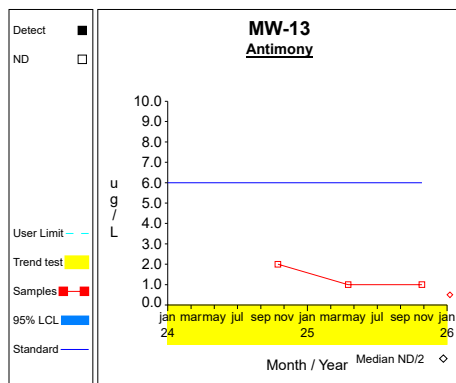


Graph 10

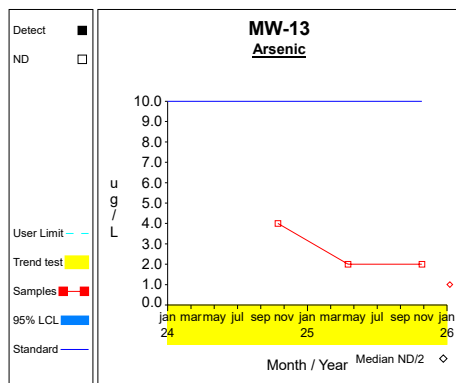


Graph 11

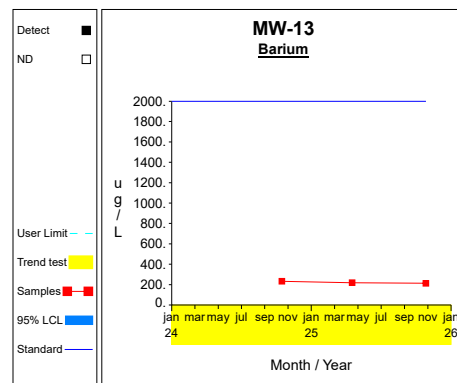
Confidence Limits (Assessment)



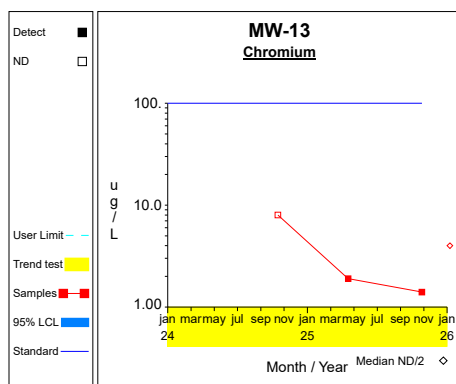
Graph 12



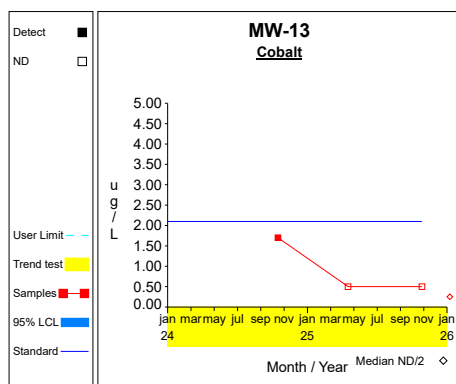
Graph 13



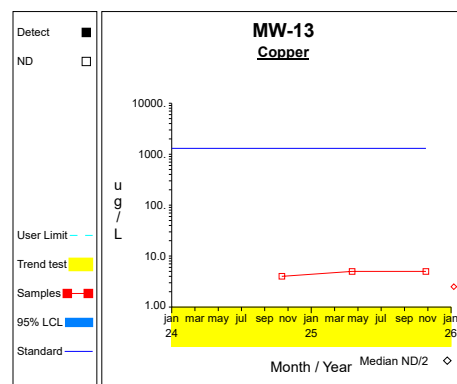
Graph 14



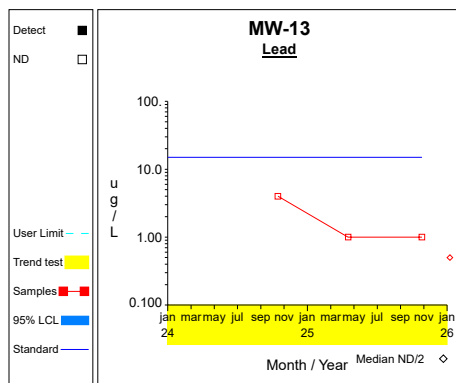
Graph 15



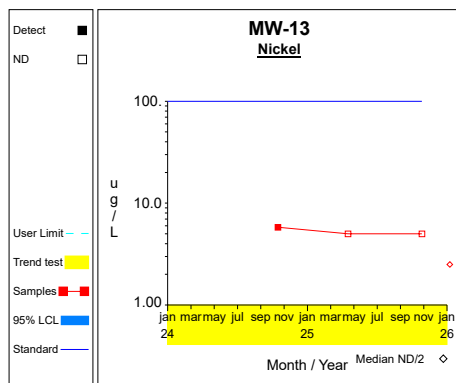
Graph 16



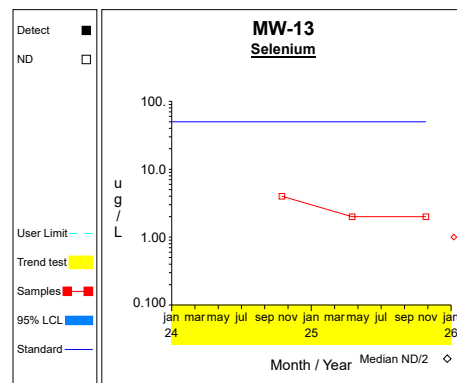
Graph 17



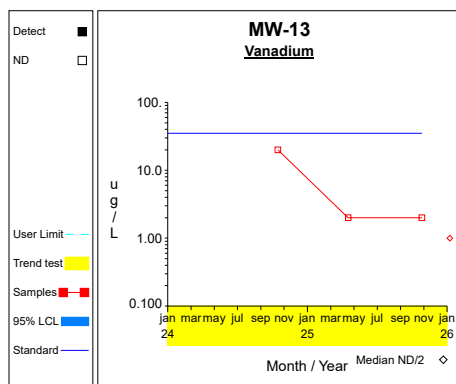
Graph 18



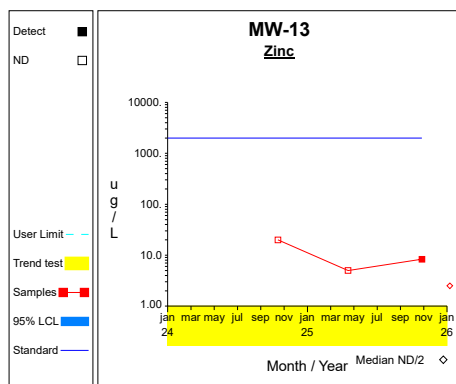
Graph 19



Graph 20

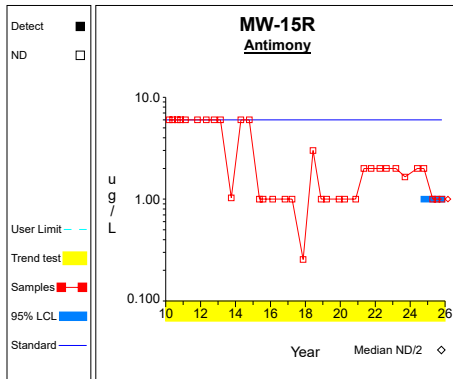


Graph 21

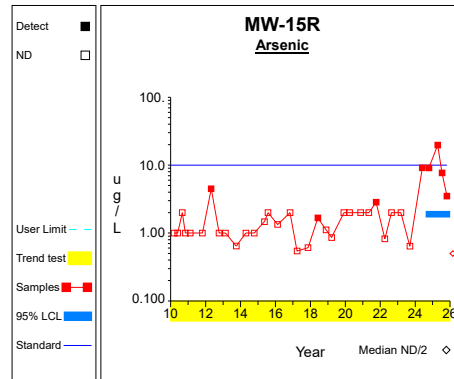


Graph 22

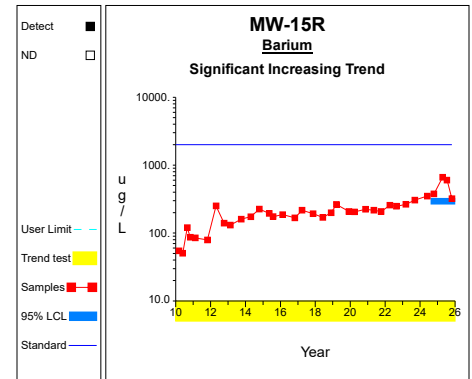
Confidence Limits (Assessment)



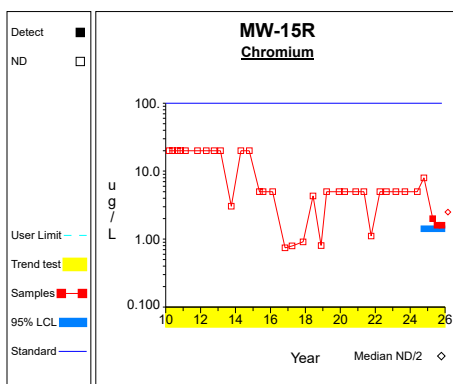
Graph 23



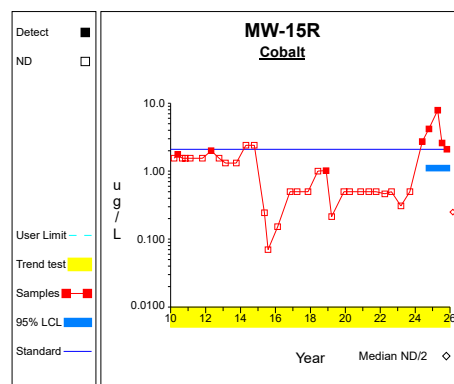
Graph 24



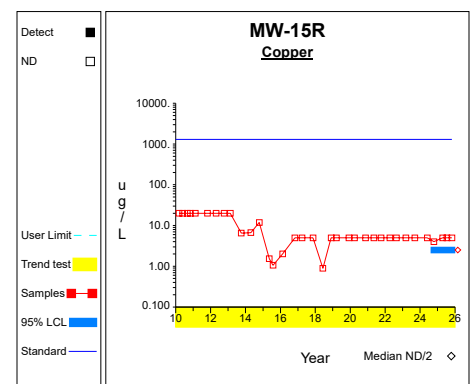
Graph 25



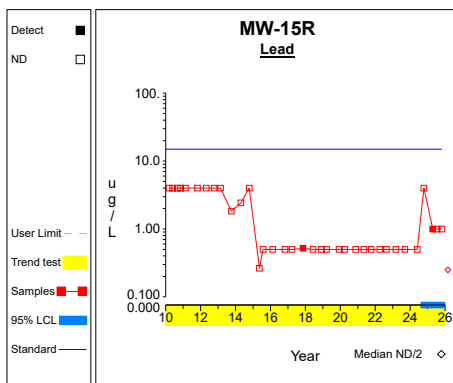
Graph 26



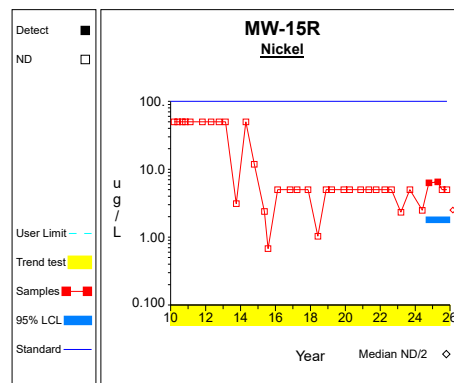
Graph 27



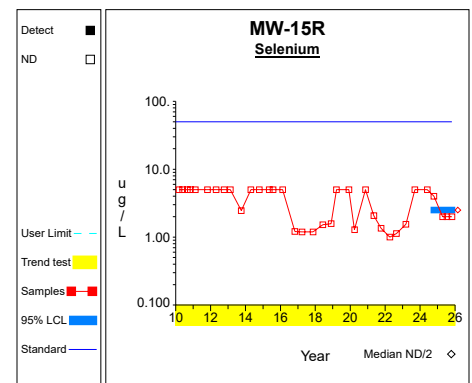
Graph 28



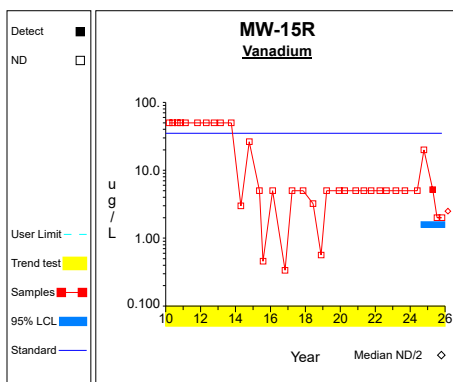
Graph 29



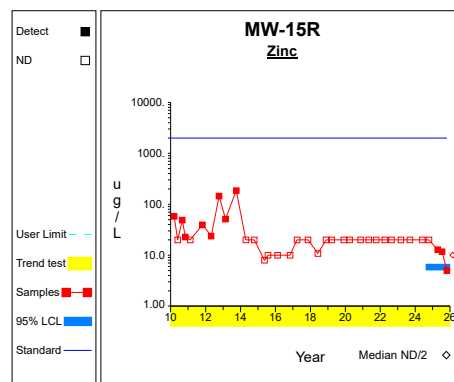
Graph 30



Graph 31

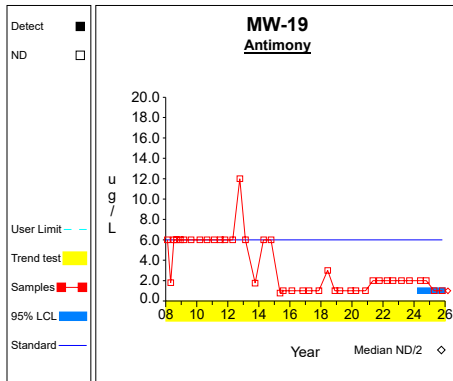


Graph 32

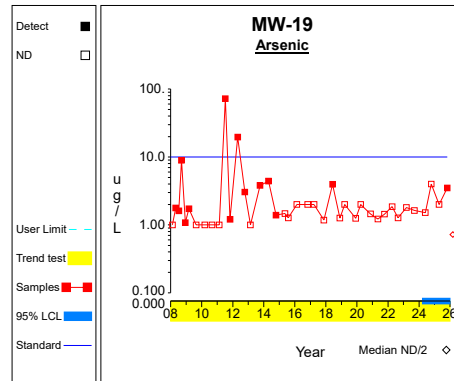


Graph 33

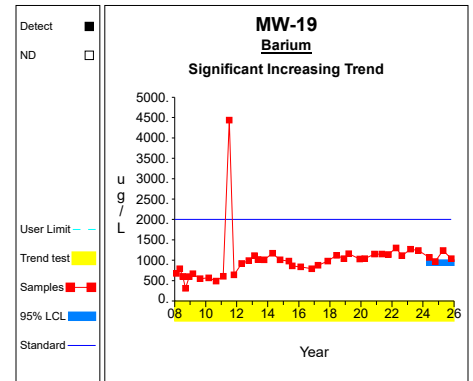
Confidence Limits (Assessment)



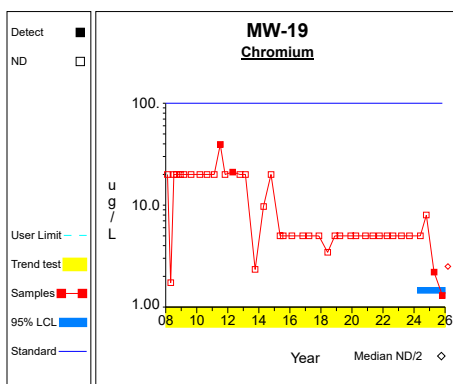
Graph 34



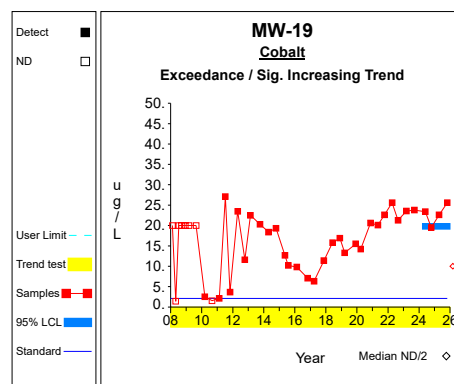
Graph 35



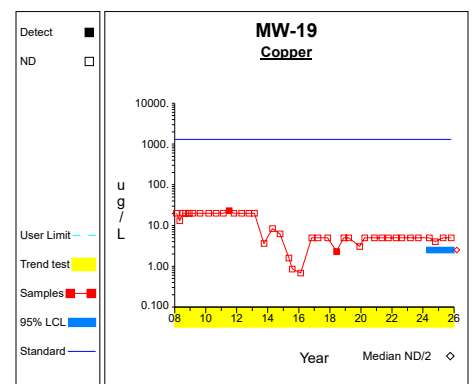
Graph 36



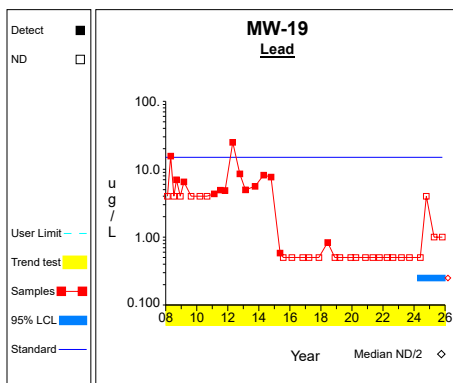
Graph 37



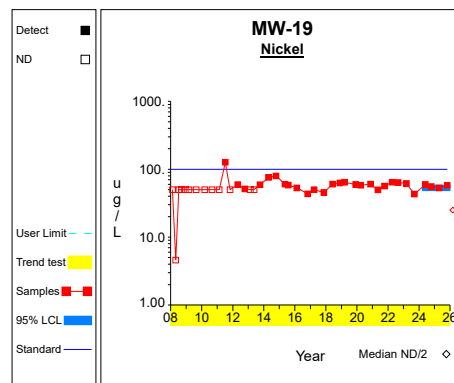
Graph 38



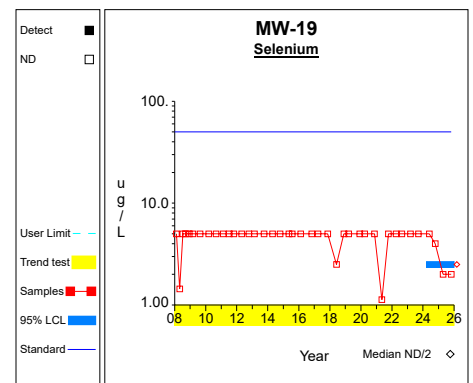
Graph 39



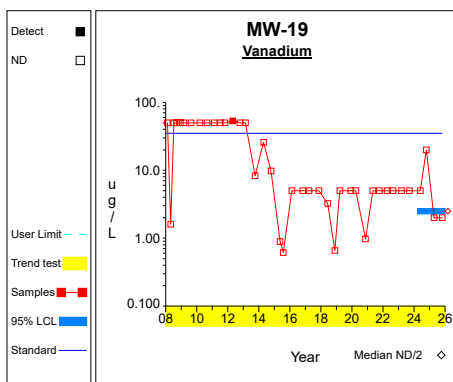
Graph 40



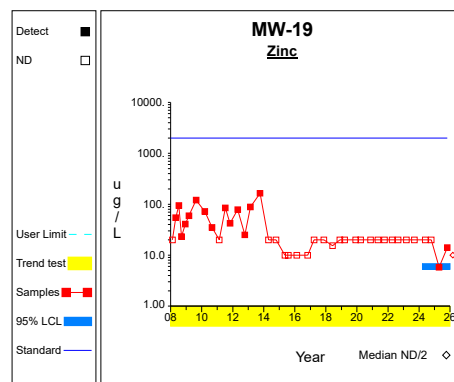
Graph 41



Graph 42

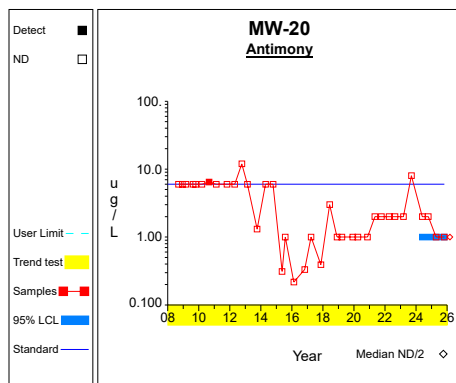


Graph 43

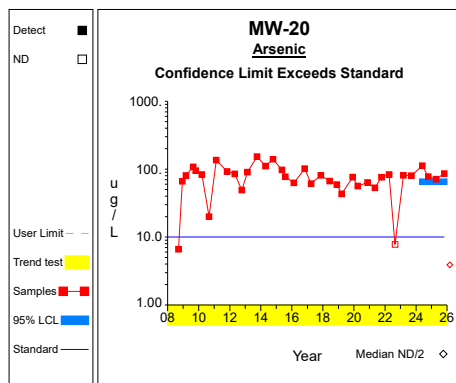


Graph 44

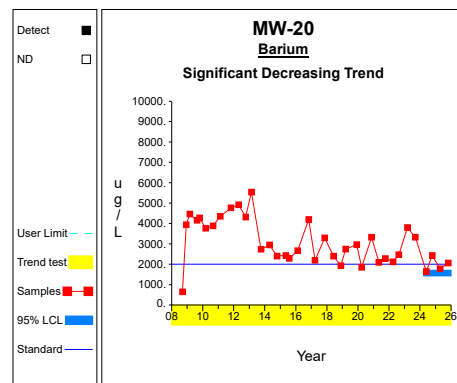
Confidence Limits (Assessment)



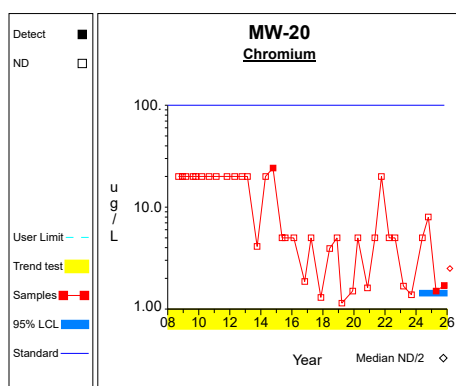
Graph 45



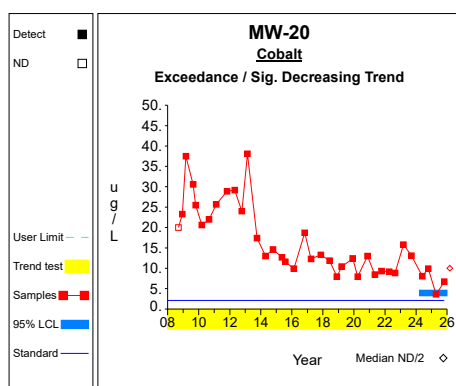
Graph 46



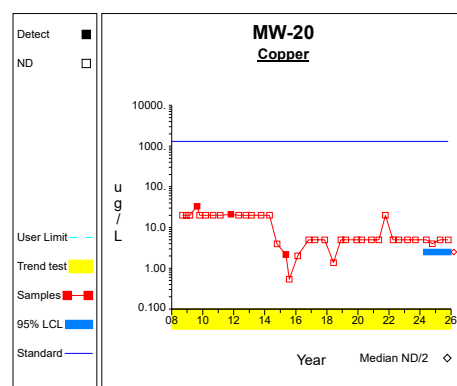
Graph 47



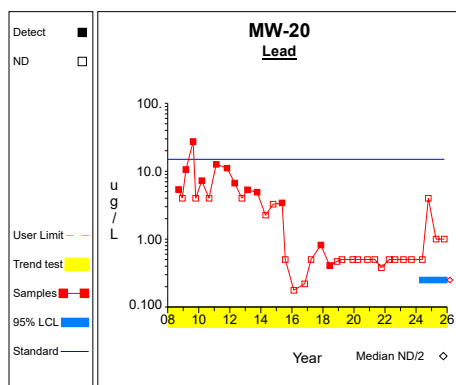
Graph 48



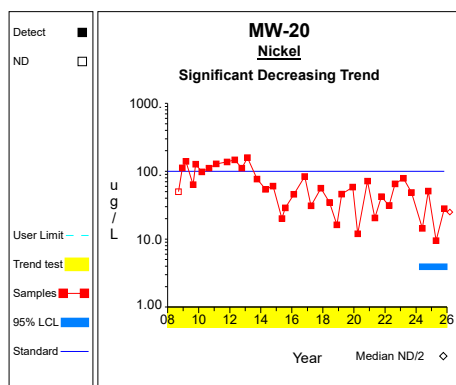
Graph 49



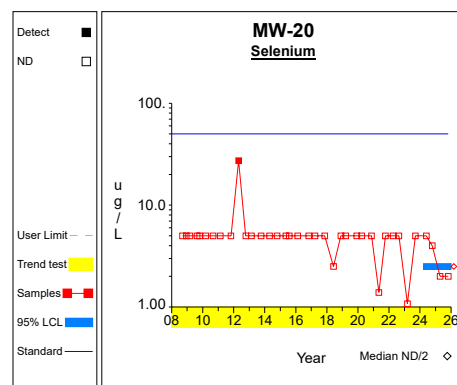
Graph 50



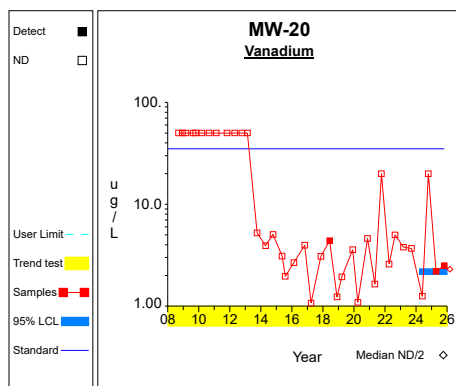
Graph 51



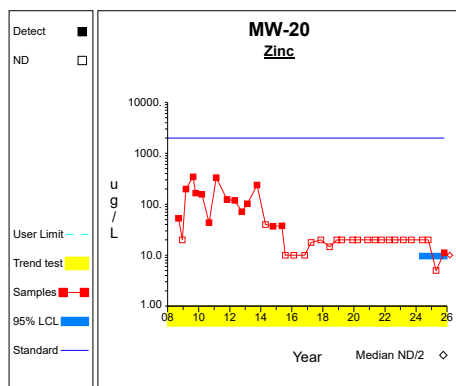
Graph 52



Graph 53

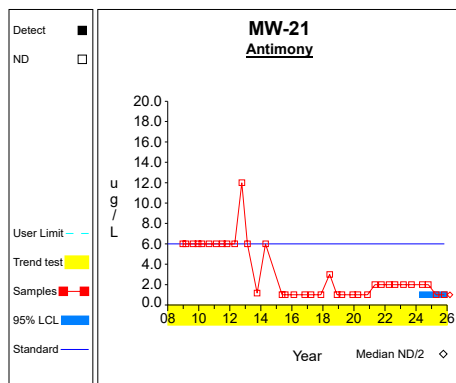


Graph 54

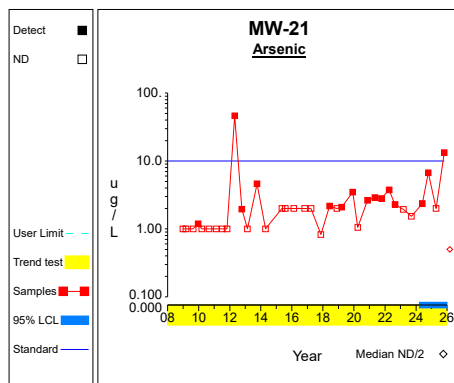


Graph 55

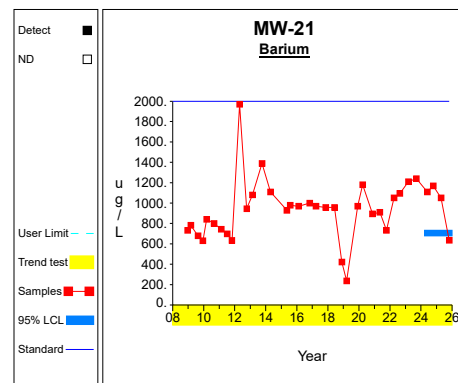
Confidence Limits (Assessment)



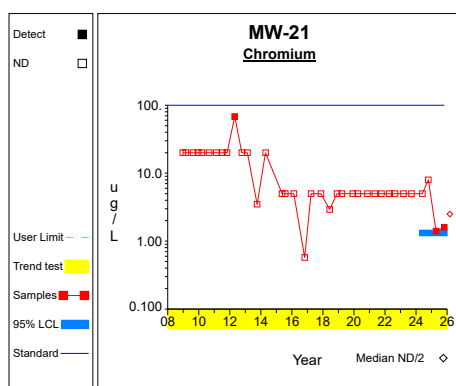
Graph 56



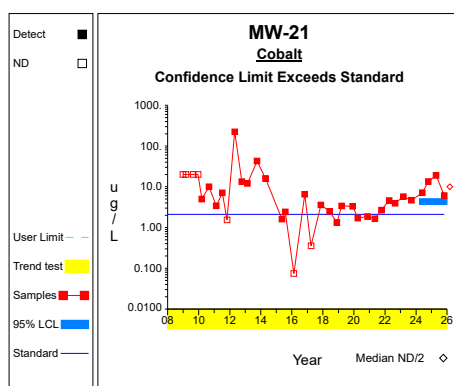
Graph 57



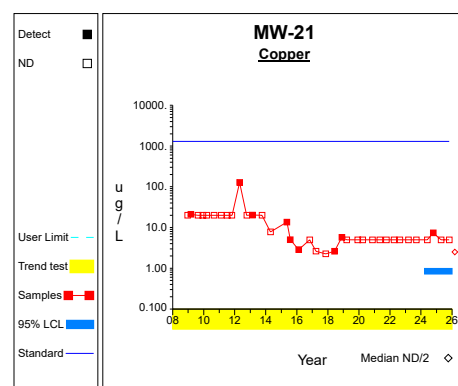
Graph 58



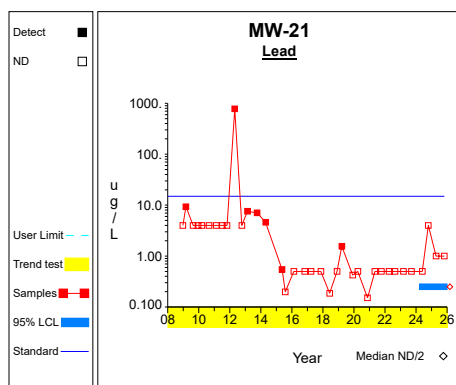
Graph 59



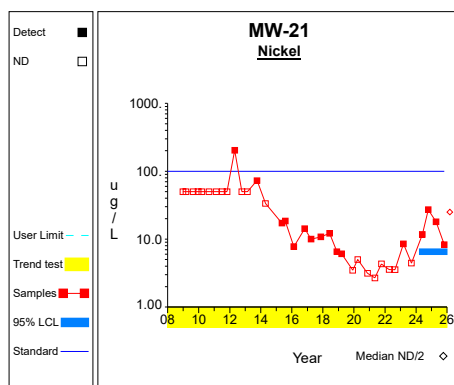
Graph 60



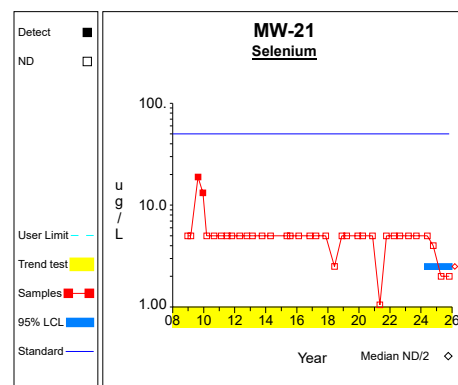
Graph 61



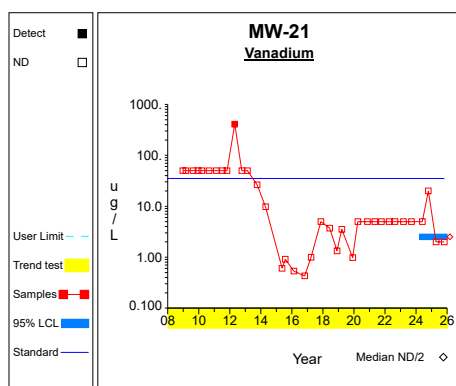
Graph 62



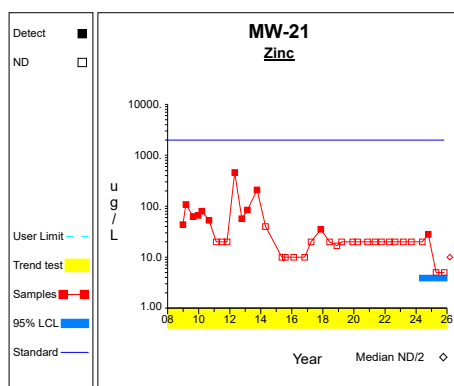
Graph 63



Graph 64

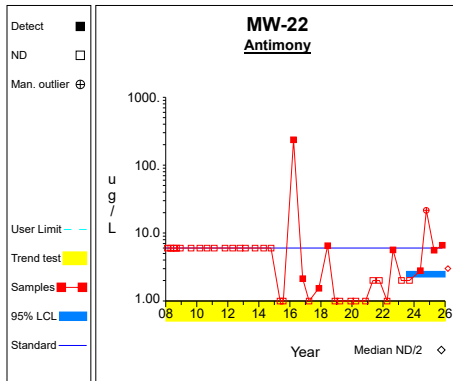


Graph 65

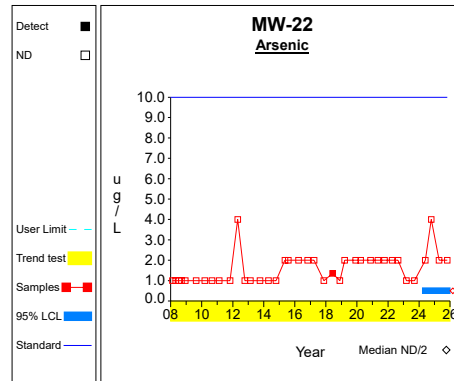


Graph 66

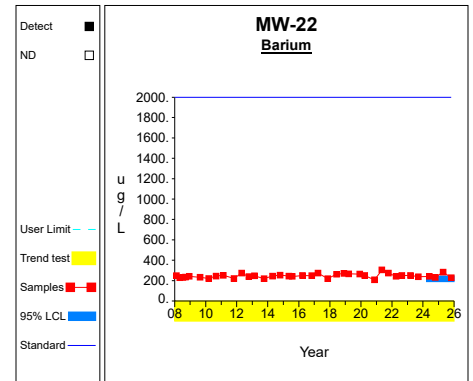
Confidence Limits (Assessment)



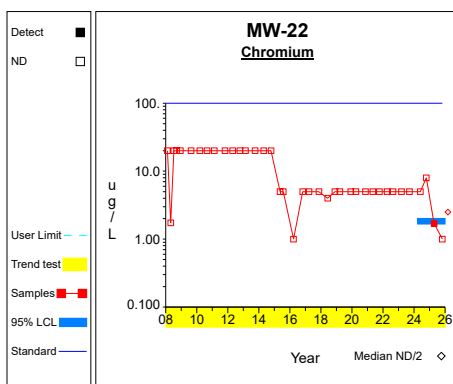
Graph 67



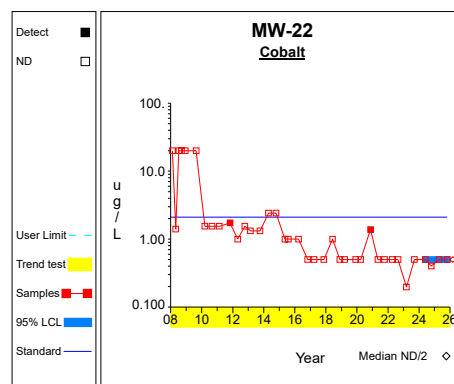
Graph 68



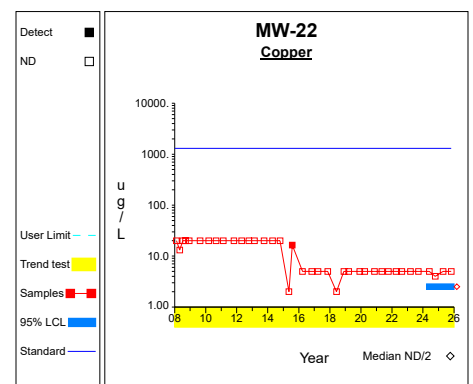
Graph 69



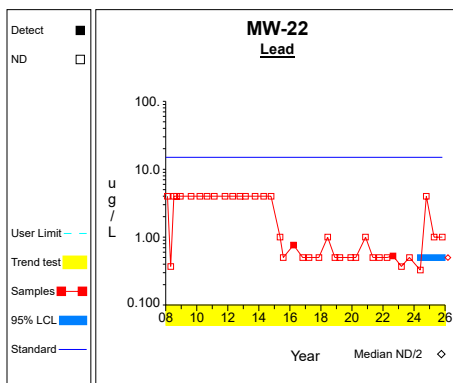
Graph 70



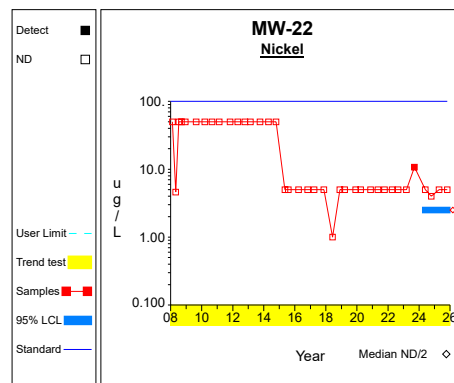
Graph 71



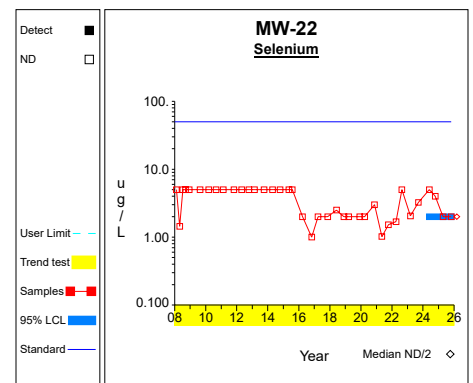
Graph 72



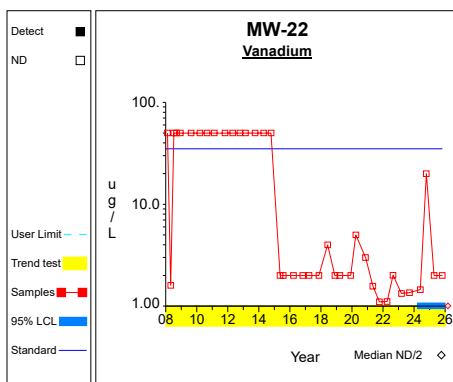
Graph 73



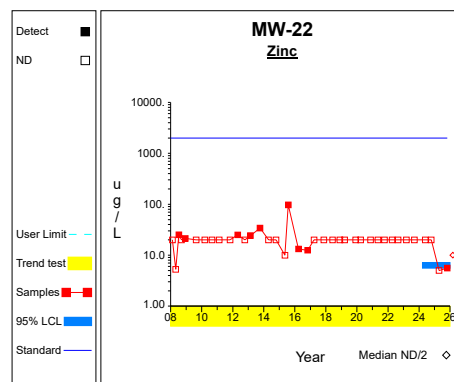
Graph 74



Graph 75

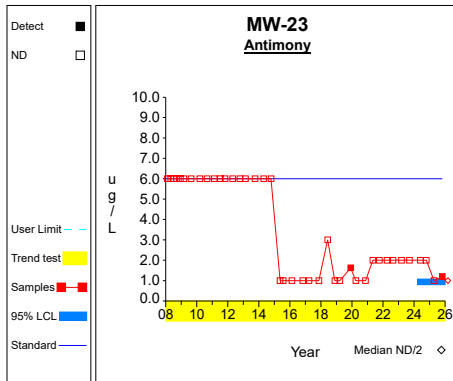


Graph 76

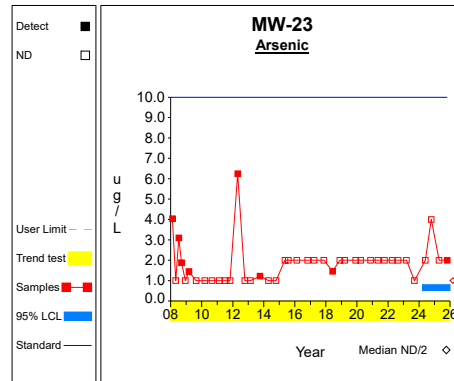


Graph 77

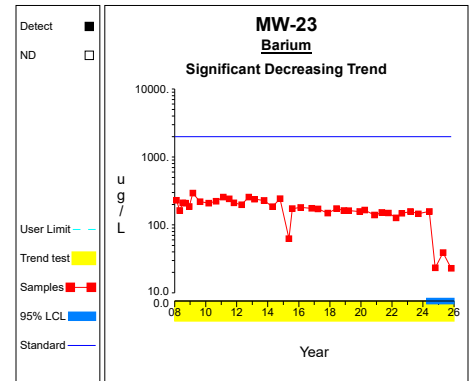
Confidence Limits (Assessment)



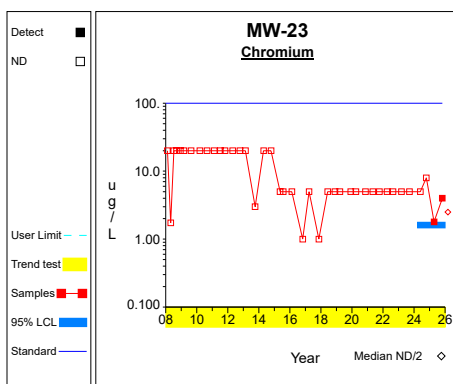
Graph 78



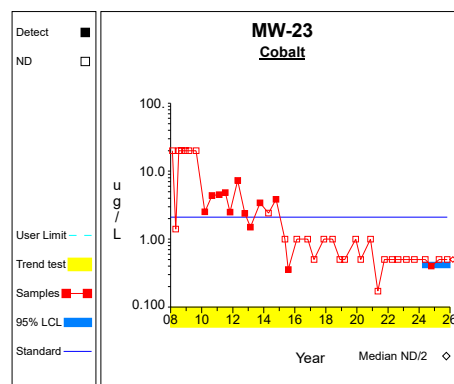
Graph 79



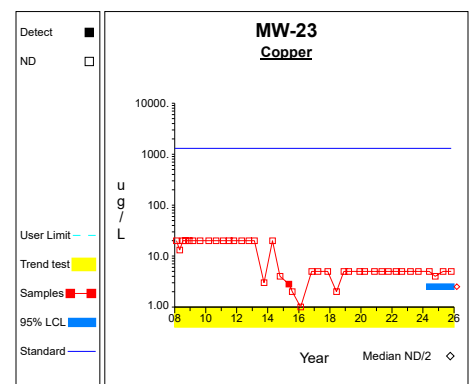
Graph 80



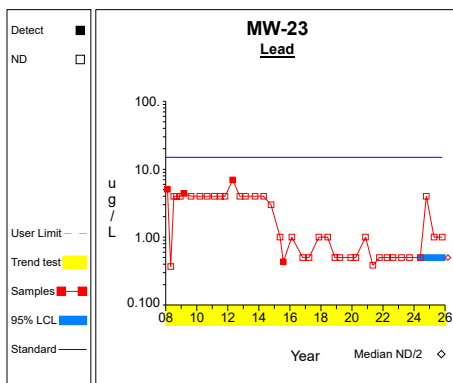
Graph 81



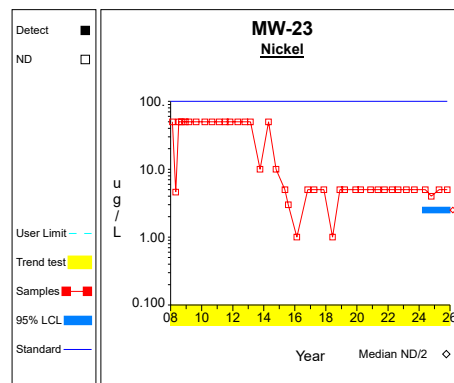
Graph 82



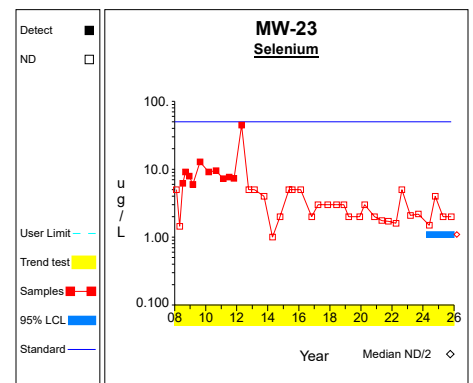
Graph 83



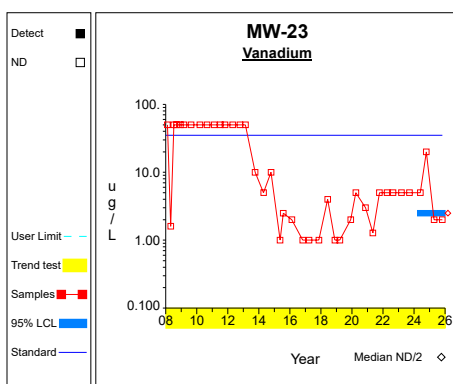
Graph 84



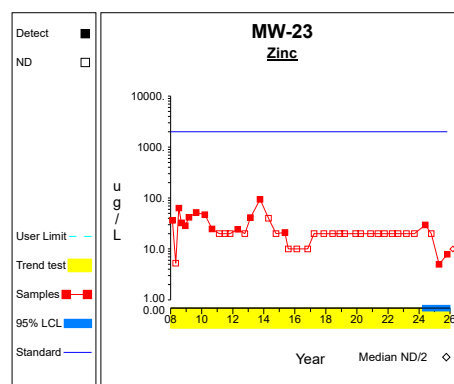
Graph 85



Graph 86

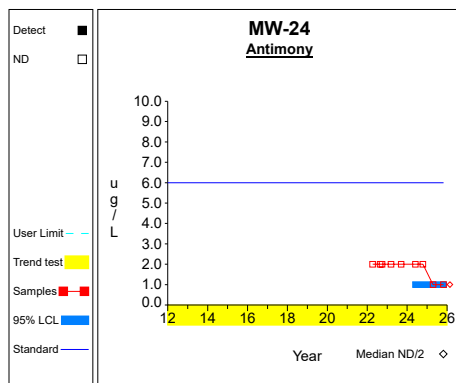


Graph 87

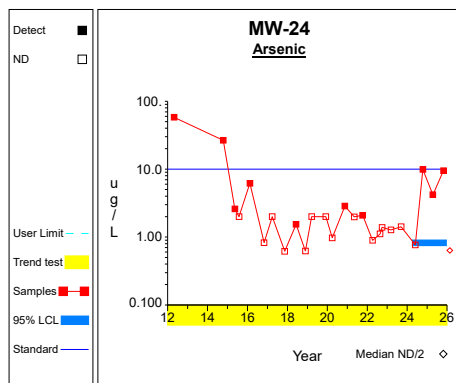


Graph 88

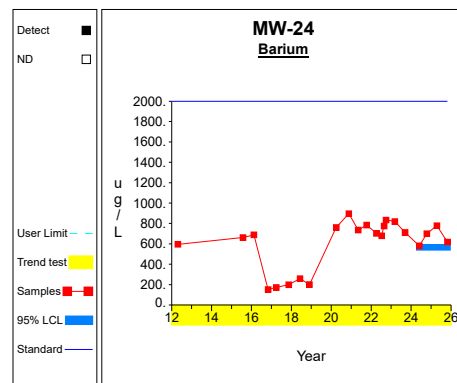
Confidence Limits (Assessment)



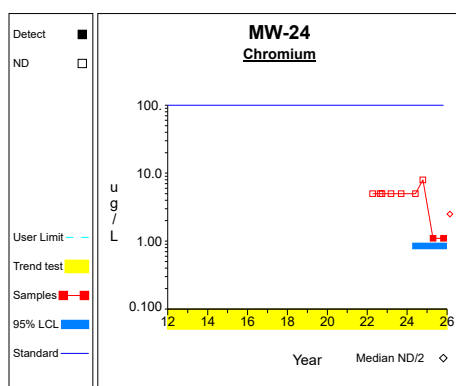
Graph 89



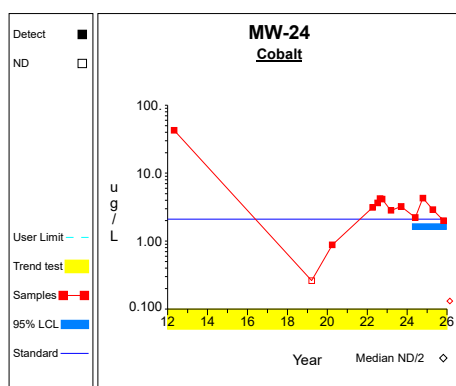
Graph 90



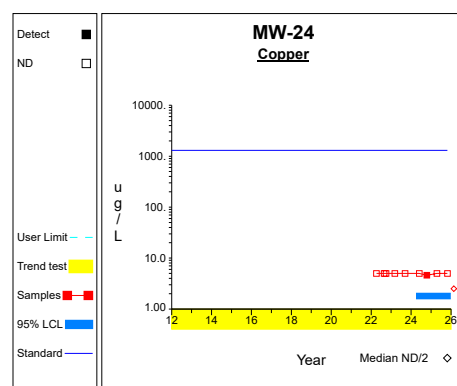
Graph 91



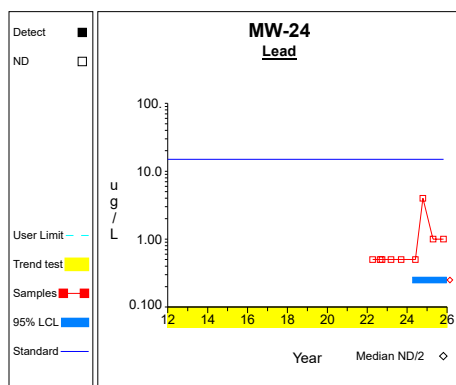
Graph 92



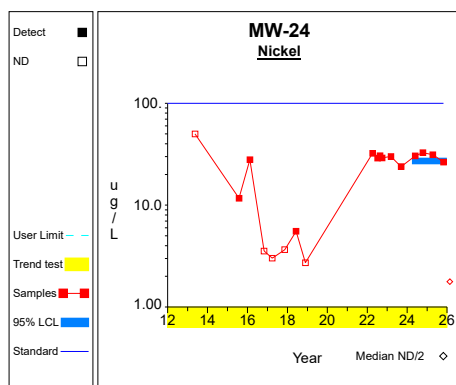
Graph 93



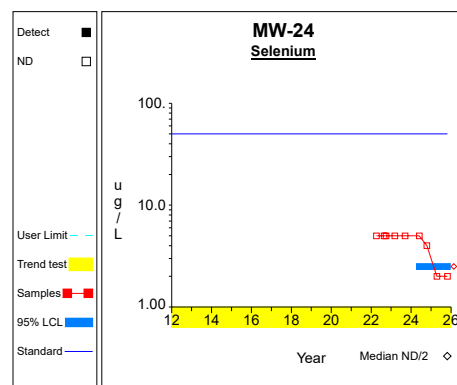
Graph 94



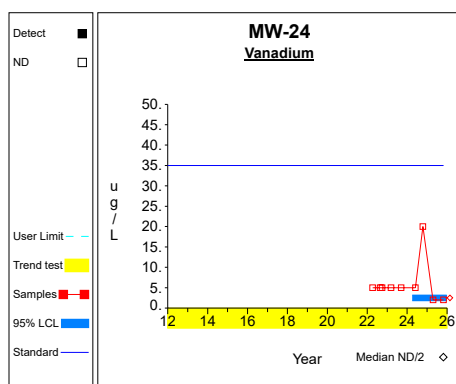
Graph 95



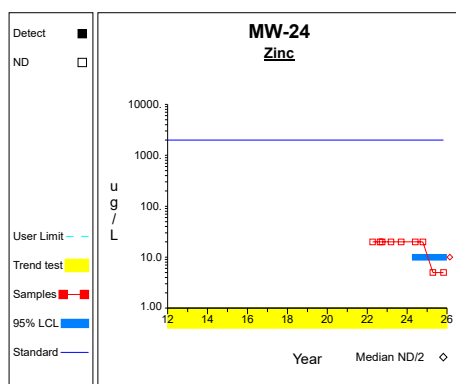
Graph 96



Graph 97

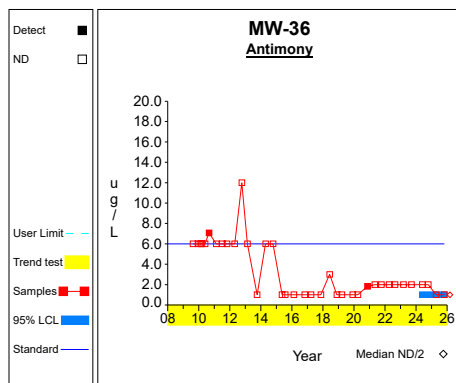


Graph 98

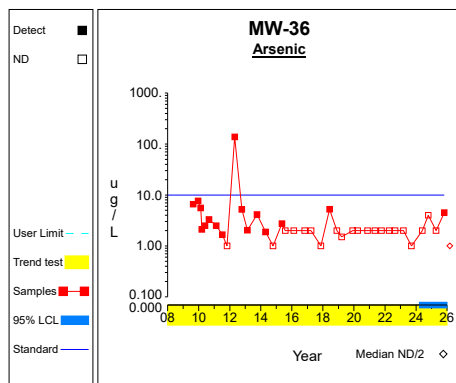


Graph 99

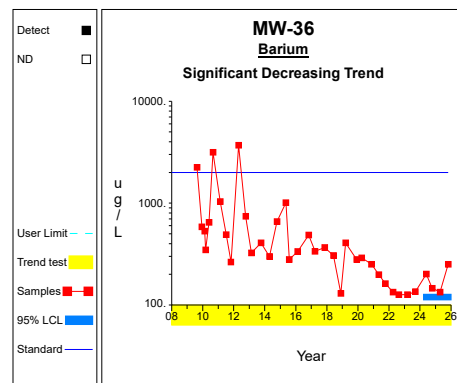
Confidence Limits (Assessment)



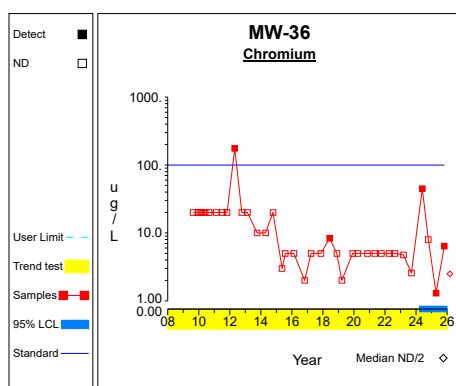
Graph 100



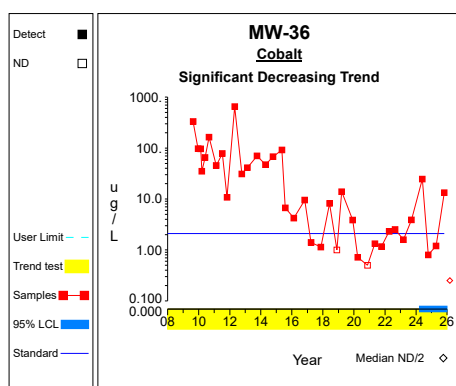
Graph 101



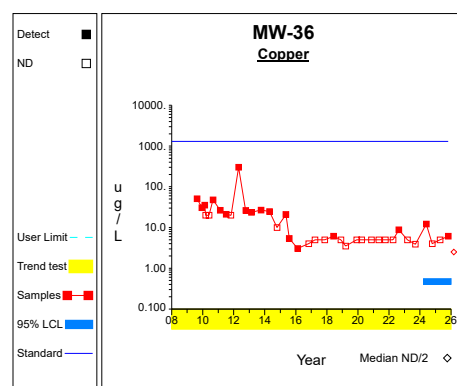
Graph 102



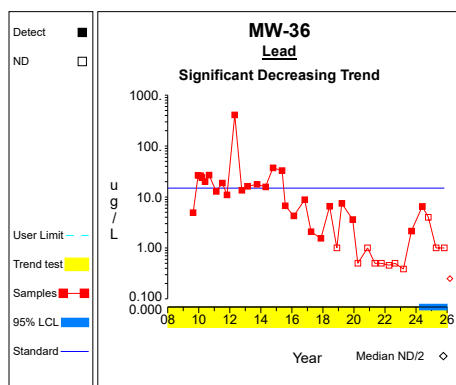
Graph 103



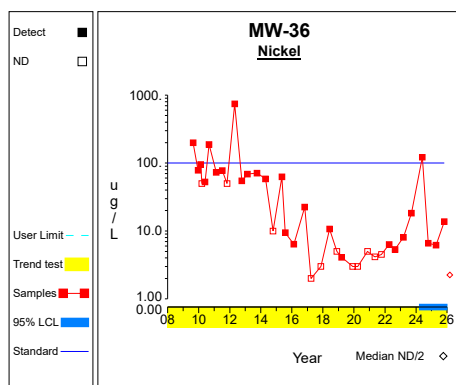
Graph 104



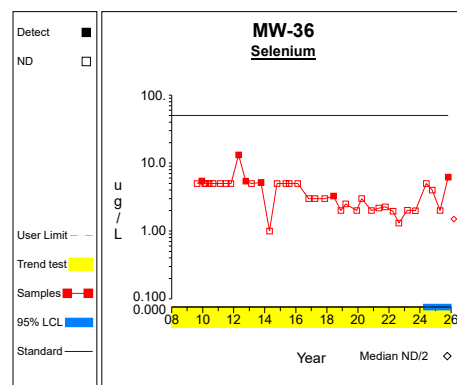
Graph 105



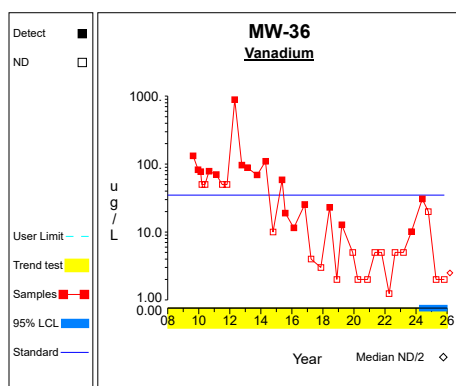
Graph 106



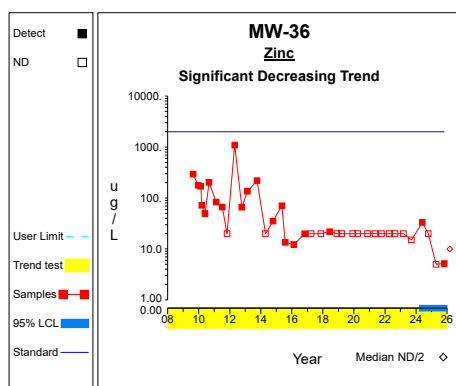
Graph 107



Graph 108

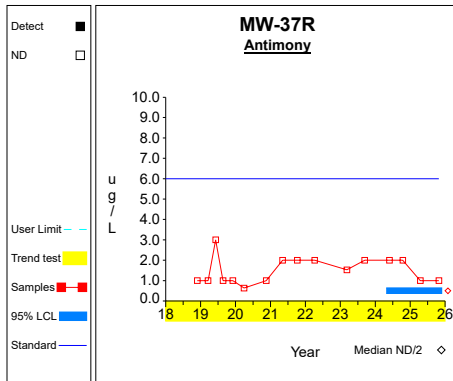


Graph 109

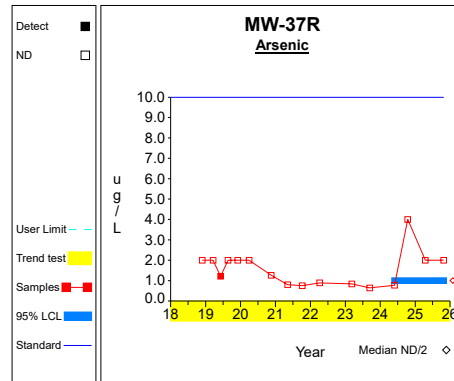


Graph 110

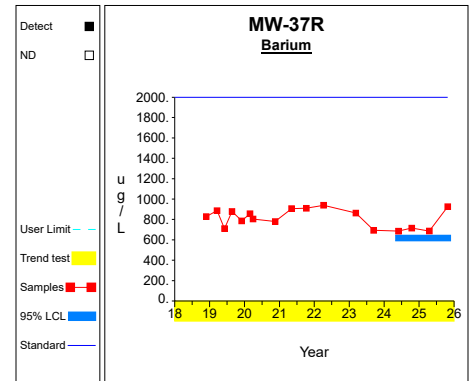
Confidence Limits (Assessment)



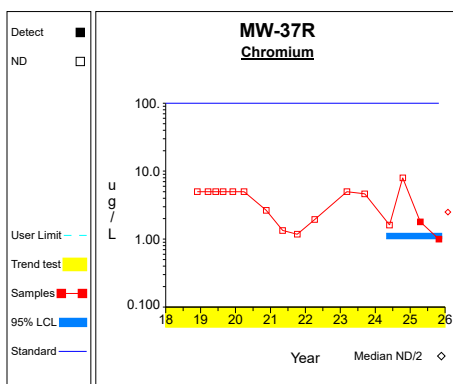
Graph 111



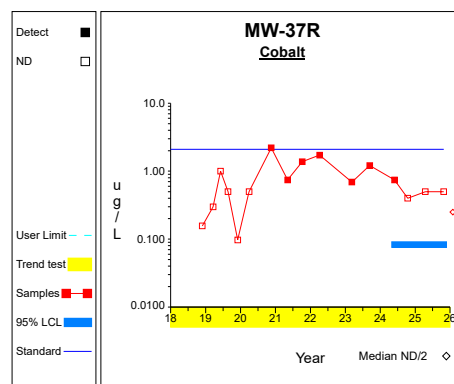
Graph 112



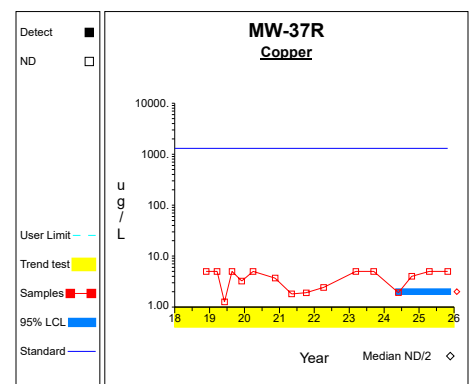
Graph 113



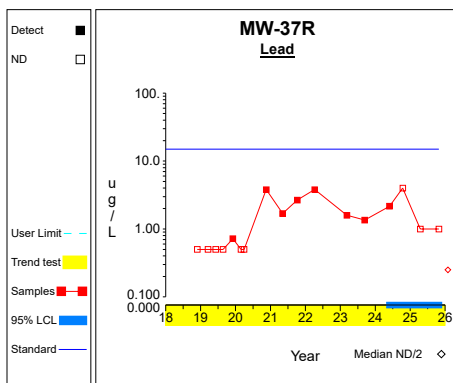
Graph 114



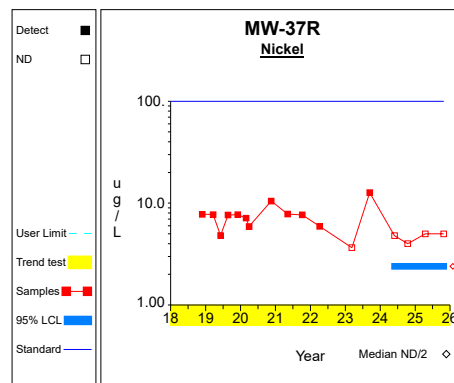
Graph 115



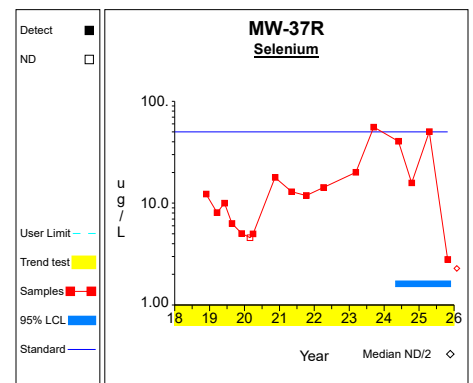
Graph 116



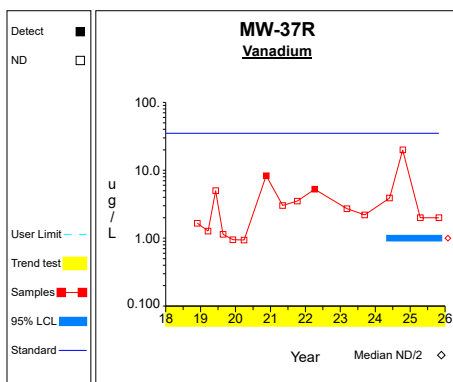
Graph 117



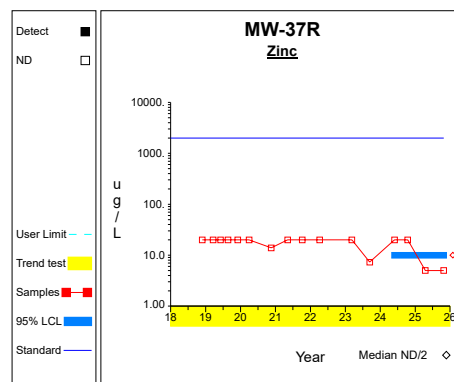
Graph 118



Graph 119

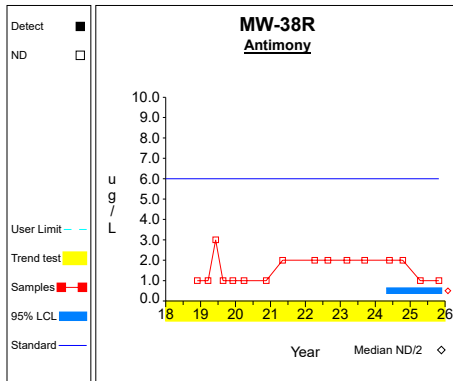


Graph 120

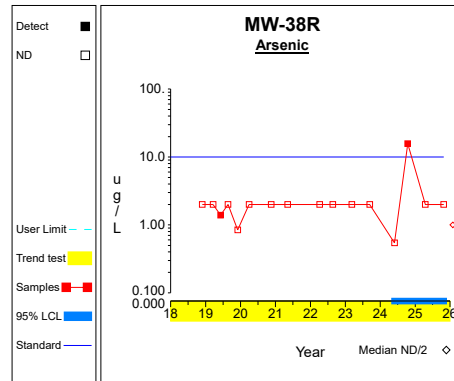


Graph 121

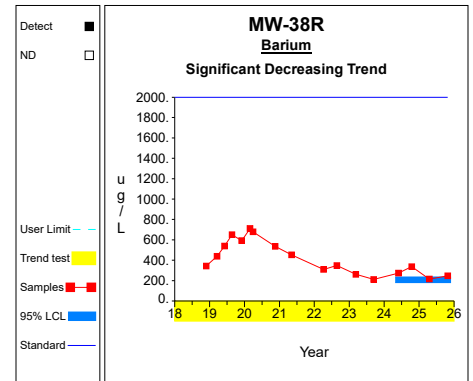
Confidence Limits (Assessment)



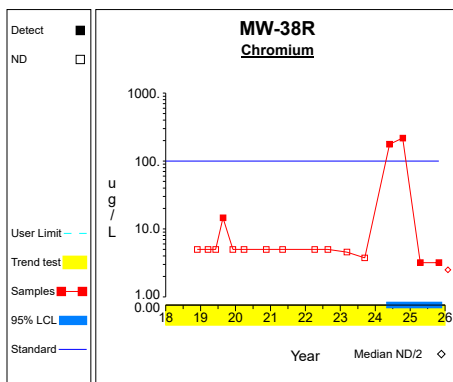
Graph 122



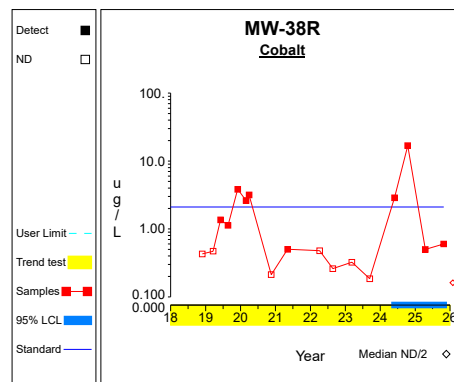
Graph 123



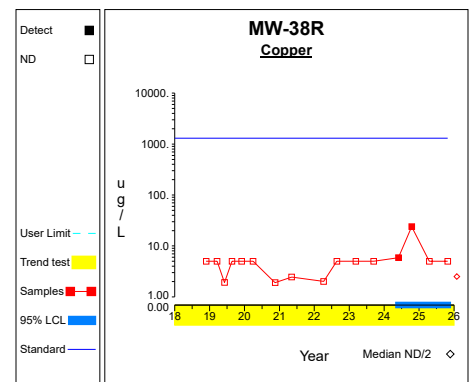
Graph 124



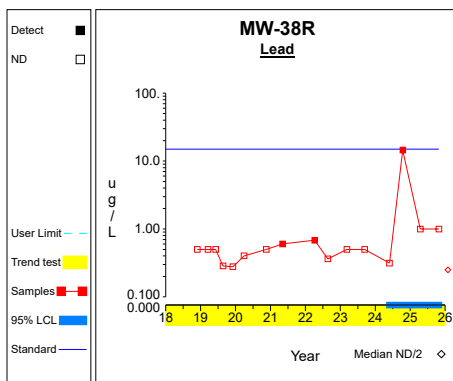
Graph 125



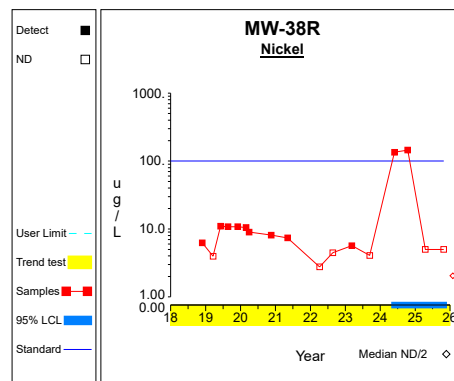
Graph 126



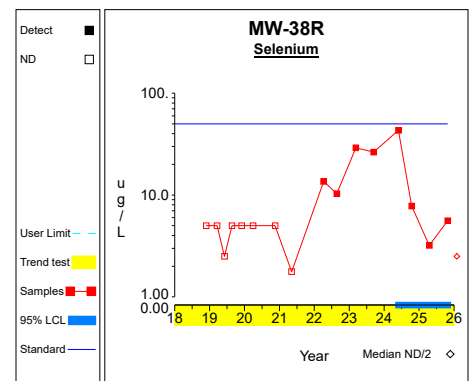
Graph 127



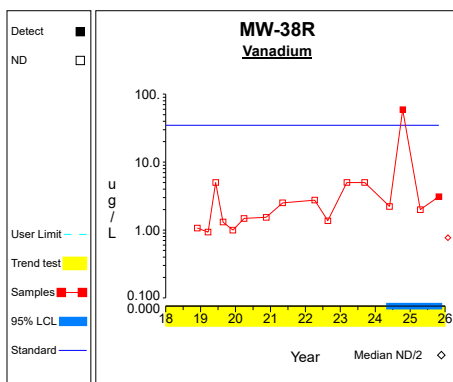
Graph 128



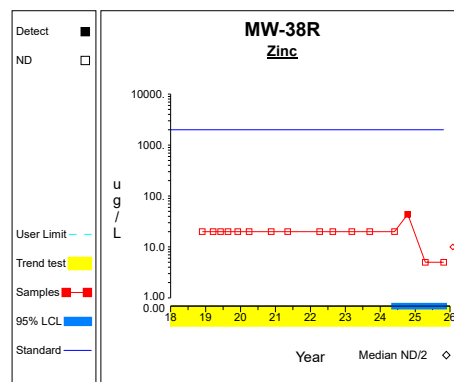
Graph 129



Graph 130

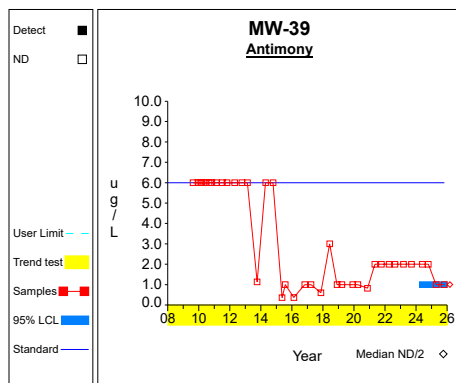


Graph 131

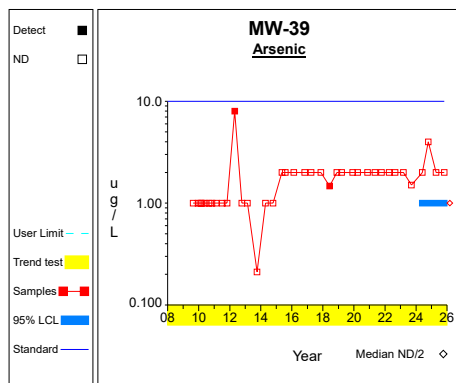


Graph 132

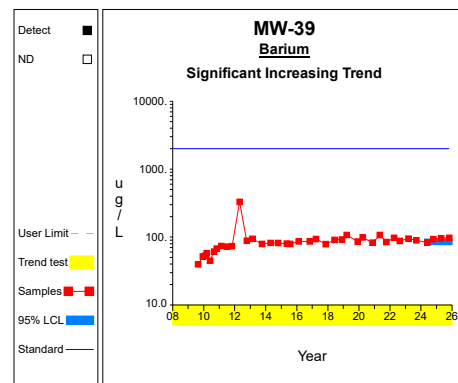
Confidence Limits (Assessment)



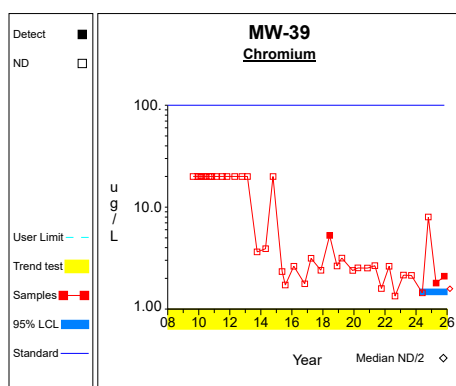
Graph 133



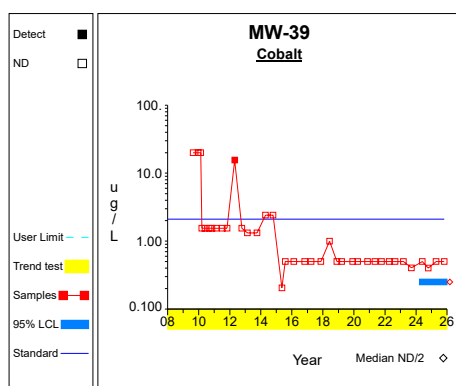
Graph 134



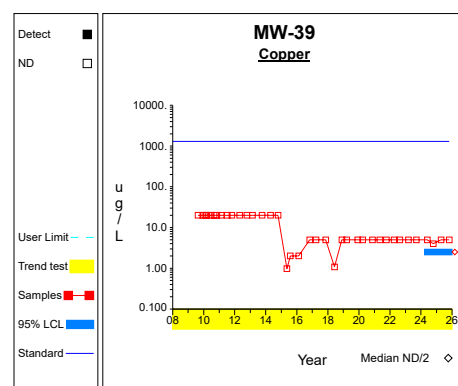
Graph 135



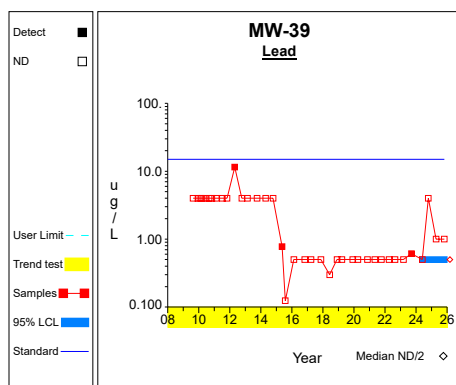
Graph 136



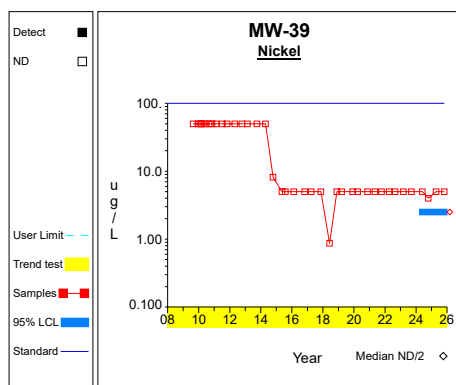
Graph 137



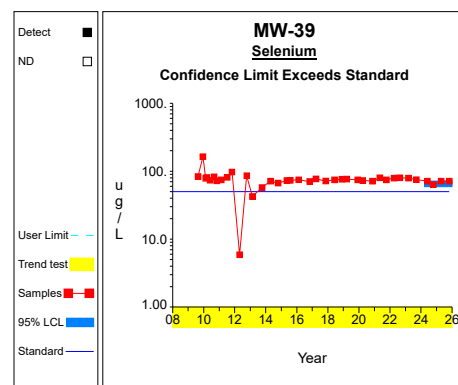
Graph 138



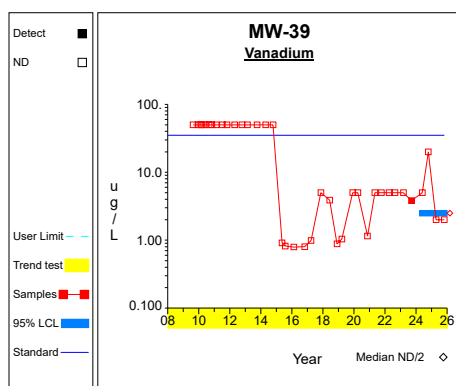
Graph 139



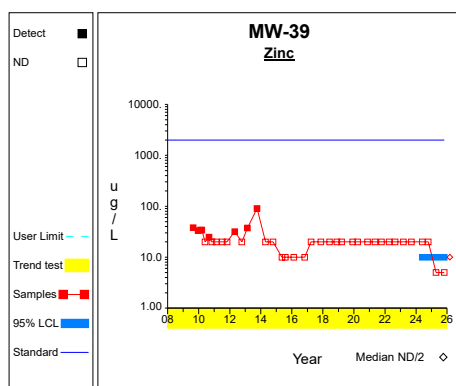
Graph 140



Graph 141

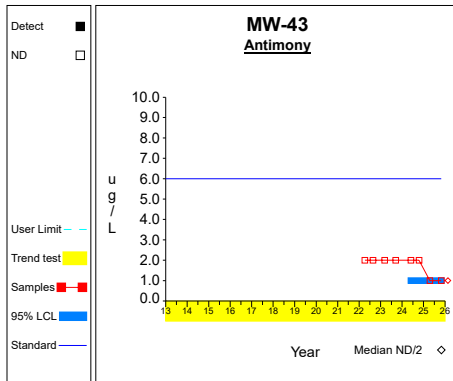


Graph 142

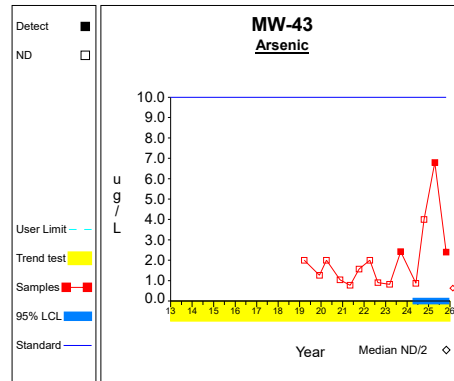


Graph 143

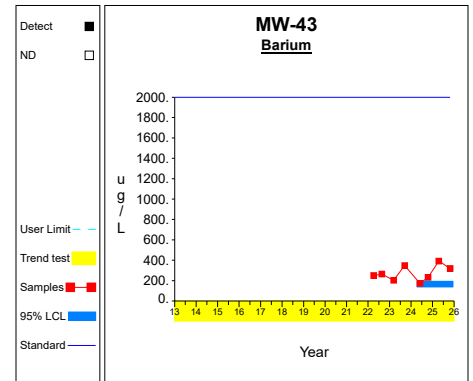
Confidence Limits (Assessment)



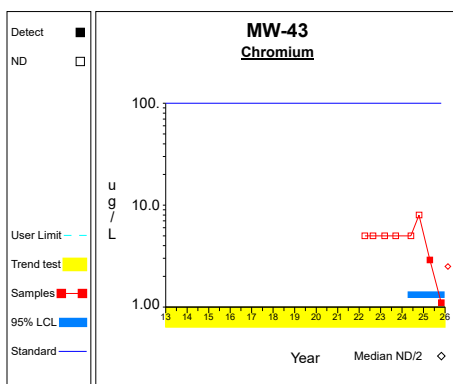
Graph 144



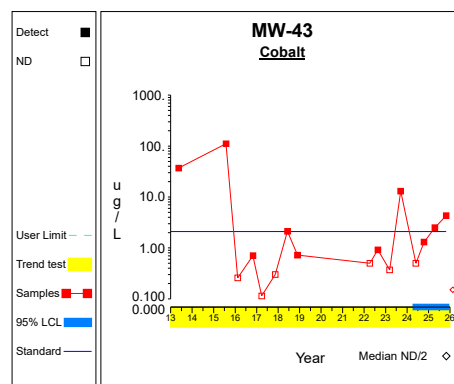
Graph 145



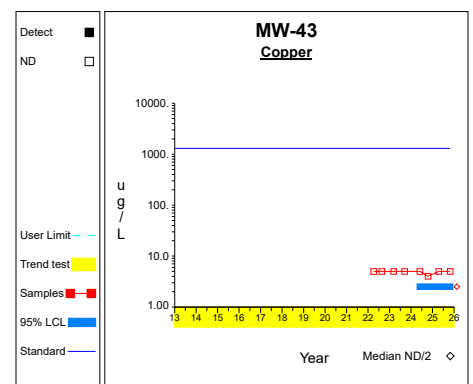
Graph 146



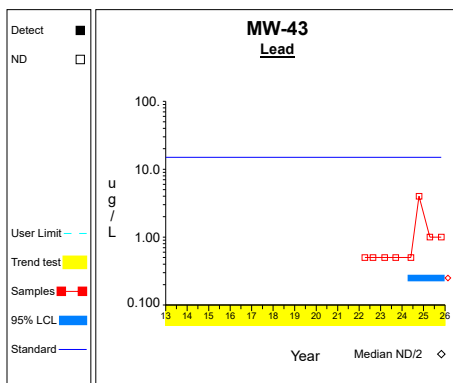
Graph 147



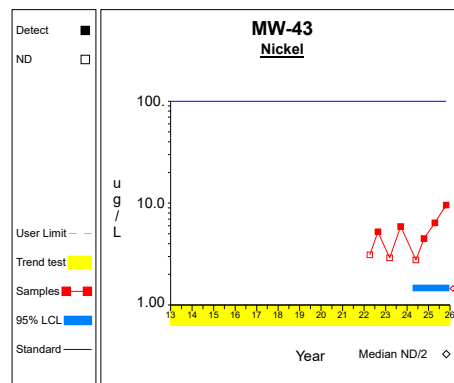
Graph 148



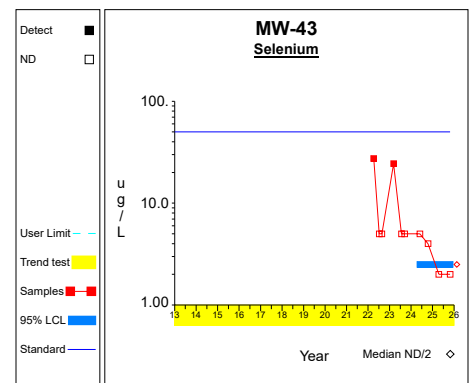
Graph 149



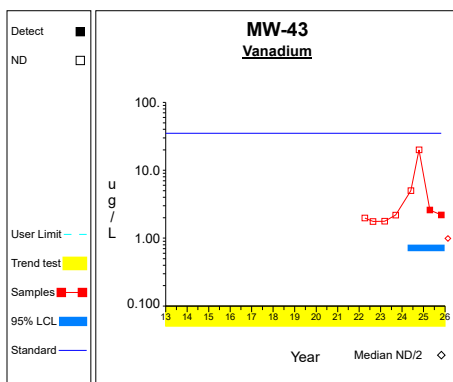
Graph 150



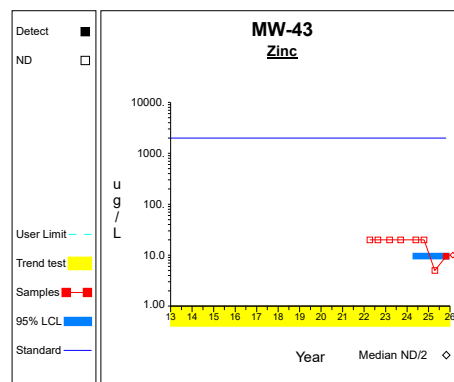
Graph 151



Graph 152



Graph 153



Graph 154

Attachment F

Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Acetone	MW-11	5/12/2015		16.5	10.0	ug/L
Benzene	MW-11	2/11/2008		.290	.001	ug/L
Benzene	MW-11	4/30/2008		.180	.100	ug/L
Benzene	MW-11	7/09/2008		.340	.001	ug/L
Benzene	MW-11	3/03/2009		.830	.001	ug/L
Chlorobenzene	MW-11	2/11/2008		.380	.001	ug/L
Chlorobenzene	MW-11	4/30/2008		.210	.001	ug/L
Chlorodibromomethane	MW-11	2/11/2008		.300	.001	ug/L
cis-1,2-Dichloroethene	MW-11	2/11/2008		1.12	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	7/09/2008		1.36	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	12/10/2008		1.28	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	3/03/2009		2.36	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	10/03/2013		1.18	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	10/03/2013		1.07	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	4/22/2014		1.24	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	11/13/2017		1.02	1.00	ug/L
Methylene Chloride	MW-11	7/09/2008		.50	.45	ug/L
Tetrachloroethene	MW-11	2/11/2008		.76	.38	ug/L
Vinyl Chloride	MW-11	2/11/2008		.390	.001	ug/L
Vinyl Chloride	MW-11	7/09/2008		.280	.001	ug/L
1,4-Dichlorobenzene	MW-12	12/10/2008		1.60	1.00	ug/L
1,4-Dichlorobenzene	MW-12	3/03/2009		1.38	1.00	ug/L
1,4-Dichlorobenzene	MW-12	8/21/2009		1.10	1.00	ug/L
1,4-Dichlorobenzene	MW-12	11/04/2009		1.01	1.00	ug/L
Acetone	MW-12	3/28/2016		14.7	10.0	ug/L
Benzene	MW-12	12/10/2008		1.00	1.00	ug/L
Benzene	MW-12	3/03/2009		.90	.10	ug/L
Benzene	MW-12	11/04/2009		.65	.10	ug/L
Benzene	MW-12	8/31/2010		.58	.10	ug/L
Bis[2-ethylhexyl]phthalate	MW-12	3/28/2016		13.9	1.0	ug/L
Bis[2-ethylhexyl]phthalate	MW-12	7/12/2017		15.6	1.0	ug/L
Chlorobenzene	MW-12	3/03/2009		1.25	1.00	ug/L
Chlorobenzene	MW-12	5/06/2021		1.01	1.00	ug/L
Chlorobenzene	MW-12	4/06/2022		1.26	1.00	ug/L
cis-1,2-Dichloroethene	MW-12	12/10/2008		3.62	1.00	ug/L
cis-1,2-Dichloroethene	MW-12	3/03/2009		2.79	1.00	ug/L
cis-1,2-Dichloroethene	MW-12	8/21/2009		1.57	1.00	ug/L
cis-1,2-Dichloroethene	MW-12	11/04/2009		1.48	1.00	ug/L
Carbon Disulfide	MW-13	10/27/2025		2.1	1.0	ug/L
1,2-Dichloroethane	MW-15R	3/18/2019		1.44	1.00	ug/L
1,1-Dichloroethane	MW-19	7/07/2011		1.18	1.00	ug/L
1,1-Dichloroethane	MW-19	10/03/2013		1.05	1.00	ug/L
1,1-Dichloroethane	MW-19	4/22/2014		2.28	1.00	ug/L
1,1-Dichloroethane	MW-19	10/14/2014		1.26	1.00	ug/L
1,1-Dichloroethane	MW-19	5/12/2015		1.68	1.00	ug/L
1,1-Dichloroethane	MW-19	7/29/2015		1.18	1.00	ug/L
1,1-Dichloroethane	MW-19	2/15/2016		1.01	1.00	ug/L
1,1-Dichloroethane	MW-19	11/26/2018		1.04	1.00	ug/L
1,4-Dichlorobenzene	MW-19	7/07/2011		3.06	1.00	ug/L
4-Chloro-3-methylphenol	MW-19	7/07/2011		10.9	10.0	ug/L
Acetone	MW-19	9/11/2008		32.9	10.0	ug/L
Benzene	MW-19	7/07/2011		4.590	1,000	ug/L
Benzene	MW-19	2/20/2013		.987	.100	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-19	10/03/2013		1.000	1.000	ug/L
Benzene	MW-19	4/22/2014		1.210	1.000	ug/L
Benzene	MW-19	10/14/2014		.996	.100	ug/L
Benzene	MW-19	5/12/2015		1.140	1.000	ug/L
Benzene	MW-19	7/29/2015		.821	.100	ug/L
Benzene	MW-19	2/15/2016		.640	.100	ug/L
Benzene	MW-19	11/13/2017		.704	.100	ug/L
Benzene	MW-19	11/26/2018		.750	.100	ug/L
Benzene	MW-19	11/26/2018		.553	.100	ug/L
Benzene	MW-19	11/17/2020		.557	.100	ug/L
Benzene	MW-19	5/06/2021		.824	.100	ug/L
Benzene	MW-19	10/07/2021		.856	.100	ug/L
Benzene	MW-19	4/06/2022		.930	.100	ug/L
Benzene	MW-19	8/23/2022		.588	.100	ug/L
Benzene	MW-19	3/08/2023		.912	.100	ug/L
Benzene	MW-19	9/13/2023		.733	.100	ug/L
Benzene	MW-19	5/29/2024		.624	.100	ug/L
Carbon Disulfide	MW-19	10/27/2025		3.4	1.0	ug/L
Chlorobenzene	MW-19	7/07/2011		7.35	1.00	ug/L
Chlorobenzene	MW-19	5/06/2021		1.21	1.00	ug/L
Chlorobenzene	MW-19	10/07/2021		1.45	1.00	ug/L
Chlorobenzene	MW-19	4/06/2022		1.92	1.00	ug/L
Chlorobenzene	MW-19	3/08/2023		1.89	1.00	ug/L
Chlorobenzene	MW-19	3/08/2023		1.86	1.00	ug/L
Chlorobenzene	MW-19	9/13/2023		1.49	1.00	ug/L
Chlorobenzene	MW-19	5/29/2024		1.16	1.00	ug/L
Chlorobenzene	MW-19	10/15/2024		1.20	1.00	ug/L
Chlorobenzene	MW-19	4/16/2025		1.40	1.00	ug/L
Chlorobenzene	MW-19	10/27/2025		1.20	1.00	ug/L
Chlorodibromomethane	MW-19	2/11/2008		.32	.10	ug/L
Chloroethane	MW-19	2/11/2008		.79	.10	ug/L
Chloroethane	MW-19	4/30/2008		.54	.10	ug/L
Chloroethane	MW-19	10/27/2025		1.20	1.00	ug/L
Ethylbenzene	MW-19	7/07/2011		1.73	1.00	ug/L
gamma-Chlordane	MW-19	10/09/2012		.0633	.0100	ug/L
gamma-Chlordane	MW-19	10/03/2013		.1370	.1000	ug/L
gamma-Chlordane	MW-19	12/18/2013		.1240	.1000	ug/L
gamma-Chlordane	MW-19	4/22/2014		.1760	.1000	ug/L
gamma-Chlordane	MW-19	3/30/2020		.0634	.0100	ug/L
gamma-Chlordane	MW-19	5/06/2021		.1190	.1000	ug/L
Methylene Chloride	MW-19	7/09/2008		.48	.10	ug/L
Naphthalene	MW-19	7/07/2011		5.41	1.00	ug/L
Tetrachloroethene	MW-19	2/11/2008		.77	.10	ug/L
1,4-Dichlorobenzene	MW-20	10/03/2013		2.88	1.00	ug/L
1,4-Dichlorobenzene	MW-20	10/14/2014		1.92	1.00	ug/L
1,4-Dichlorobenzene	MW-20	7/29/2015		1.56	1.00	ug/L
1,4-Dichlorobenzene	MW-20	6/06/2018		1.99	1.00	ug/L
1,4-Dichlorobenzene	MW-20	6/06/2018		2.11	1.00	ug/L
1,4-Dichlorobenzene	MW-20	11/27/2018		1.98	1.00	ug/L
1,4-Dichlorobenzene	MW-20	3/30/2020		1.81	1.00	ug/L
1,4-Dichlorobenzene	MW-20	10/07/2021		2.37	1.00	ug/L
1,4-Dichlorobenzene	MW-20	4/06/2022		1.94	1.00	ug/L
1,4-Dichlorobenzene	MW-20	8/23/2022		1.79	1.00	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-20	3/08/2023		2.40	1.00	ug/L
1,4-Dichlorobenzene	MW-20	9/13/2023		2.48	1.00	ug/L
1,4-Dichlorobenzene	MW-20	5/29/2024		1.87	1.00	ug/L
1,4-Dichlorobenzene	MW-20	5/29/2024		1.98	1.00	ug/L
1,4-Dichlorobenzene	MW-20	10/15/2024		3.10	1.00	ug/L
1,4-Dichlorobenzene	MW-20	4/16/2025		1.60	1.00	ug/L
1,4-Dichlorobenzene	MW-20	10/27/2025		2.40	1.00	ug/L
4,4'-DDD	MW-20	8/31/2010		.0340	.0100	ug/L
4,4'-DDD	MW-20	10/09/2012		.0478	.0100	ug/L
4-Chloro-3-methylphenol	MW-20	8/31/2010		.11	.10	ug/L
Acetone	MW-20	3/11/2010		17.9	10.0	ug/L
Acetone	MW-20	2/16/2011		100.0	10.0	ug/L
Acetone	MW-20	2/20/2013		24.4	10.0	ug/L
Acetone	MW-20	5/12/2015		52.1	10.0	ug/L
Acetone	MW-20	6/06/2018		10.6	10.0	ug/L
Benzene	MW-20	12/10/2008		4.05	1.00	ug/L
Benzene	MW-20	3/03/2009		4.15	1.00	ug/L
Benzene	MW-20	8/21/2009		3.40	1.00	ug/L
Benzene	MW-20	10/21/2009		.92	.10	ug/L
Benzene	MW-20	3/11/2010		3.72	1.00	ug/L
Benzene	MW-20	8/31/2010		3.80	1.00	ug/L
Benzene	MW-20	2/16/2011		3.85	1.00	ug/L
Benzene	MW-20	10/27/2011		3.65	1.00	ug/L
Benzene	MW-20	4/26/2012		4.30	1.00	ug/L
Benzene	MW-20	10/09/2012		3.40	1.00	ug/L
Benzene	MW-20	2/20/2013		4.09	1.00	ug/L
Benzene	MW-20	10/03/2013		2.89	1.00	ug/L
Benzene	MW-20	10/14/2014		3.89	1.00	ug/L
Benzene	MW-20	5/12/2015		2.27	1.00	ug/L
Benzene	MW-20	7/29/2015		2.93	1.00	ug/L
Benzene	MW-20	10/31/2016		3.72	1.00	ug/L
Benzene	MW-20	3/27/2017		2.62	1.00	ug/L
Benzene	MW-20	6/06/2018		2.86	1.00	ug/L
Benzene	MW-20	6/06/2018		2.90	1.00	ug/L
Benzene	MW-20	11/27/2018		3.06	1.00	ug/L
Benzene	MW-20	3/18/2019		3.04	1.00	ug/L
Benzene	MW-20	12/02/2019		3.24	1.00	ug/L
Benzene	MW-20	3/30/2020		2.00	1.00	ug/L
Benzene	MW-20	5/06/2021		2.04	1.00	ug/L
Benzene	MW-20	10/07/2021		2.74	1.00	ug/L
Benzene	MW-20	10/07/2021		2.68	1.00	ug/L
Benzene	MW-20	4/06/2022		2.90	1.00	ug/L
Benzene	MW-20	8/23/2022		2.91	1.00	ug/L
Benzene	MW-20	3/08/2023		3.14	1.00	ug/L
Benzene	MW-20	9/13/2023		2.93	1.00	ug/L
Benzene	MW-20	5/29/2024		1.84	1.00	ug/L
Benzene	MW-20	5/29/2024		2.18	1.00	ug/L
Benzene	MW-20	10/15/2024		3.00	1.00	ug/L
Benzene	MW-20	4/16/2025		1.70	1.00	ug/L
Benzene	MW-20	10/27/2025		2.20	1.00	ug/L
Carbon Disulfide	MW-20	10/27/2025		12	1	ug/L
Chlorobenzene	MW-20	3/03/2009		6.20	1.00	ug/L
Chlorobenzene	MW-20	8/21/2009		5.00	1.00	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-20	3/11/2010		5.81	1.00	ug/L
Chlorobenzene	MW-20	8/31/2010		6.85	1.00	ug/L
Chlorobenzene	MW-20	2/16/2011		7.25	1.00	ug/L
Chlorobenzene	MW-20	10/27/2011		7.55	1.00	ug/L
Chlorobenzene	MW-20	4/26/2012		6.90	1.00	ug/L
Chlorobenzene	MW-20	10/09/2012		7.05	1.00	ug/L
Chlorobenzene	MW-20	2/20/2013		7.78	1.00	ug/L
Chlorobenzene	MW-20	10/03/2013		5.57	1.00	ug/L
Chlorobenzene	MW-20	10/14/2014		4.54	1.00	ug/L
Chlorobenzene	MW-20	5/12/2015		1.88	1.00	ug/L
Chlorobenzene	MW-20	7/29/2015		2.83	1.00	ug/L
Chlorobenzene	MW-20	10/31/2016		4.59	1.00	ug/L
Chlorobenzene	MW-20	3/27/2017		2.88	1.00	ug/L
Chlorobenzene	MW-20	6/06/2018		3.54	1.00	ug/L
Chlorobenzene	MW-20	6/06/2018		3.43	1.00	ug/L
Chlorobenzene	MW-20	11/27/2018		3.36	1.00	ug/L
Chlorobenzene	MW-20	3/18/2019		3.67	1.00	ug/L
Chlorobenzene	MW-20	12/02/2019		3.80	1.00	ug/L
Chlorobenzene	MW-20	3/30/2020		2.69	1.00	ug/L
Chlorobenzene	MW-20	5/06/2021		2.29	1.00	ug/L
Chlorobenzene	MW-20	10/07/2021		3.60	1.00	ug/L
Chlorobenzene	MW-20	10/07/2021		3.36	1.00	ug/L
Chlorobenzene	MW-20	4/06/2022		3.27	1.00	ug/L
Chlorobenzene	MW-20	8/23/2022		3.29	1.00	ug/L
Chlorobenzene	MW-20	3/08/2023		4.44	1.00	ug/L
Chlorobenzene	MW-20	9/13/2023		4.34	1.00	ug/L
Chlorobenzene	MW-20	5/29/2024		2.64	1.00	ug/L
Chlorobenzene	MW-20	5/29/2024		2.87	1.00	ug/L
Chlorobenzene	MW-20	10/15/2024		4.70	1.00	ug/L
Chlorobenzene	MW-20	4/16/2025		2.30	1.00	ug/L
Chlorobenzene	MW-20	10/27/2025		3.10	1.00	ug/L
Chloroethane	MW-20	3/11/2010		4.13	1.00	ug/L
Endosulfan I	MW-20	8/31/2010		.0729	.0100	ug/L
Endosulfan I	MW-20	10/27/2011		.1080	.1000	ug/L
Endosulfan I	MW-20	10/09/2012		.0449	.0100	ug/L
Endosulfan I	MW-20	10/03/2013		.0632	.0100	ug/L
Endosulfan I	MW-20	4/22/2014		.0707	.0100	ug/L
Endosulfan I	MW-20	10/14/2014		.0387	.0100	ug/L
Endosulfan I	MW-20	2/15/2016		.0614	.0100	ug/L
Endosulfan I	MW-20	10/31/2016		.0538	.0100	ug/L
Endosulfan I	MW-20	11/13/2017		.0696	.0100	ug/L
Endosulfan I	MW-20	12/02/2019		.0370	.0100	ug/L
Endosulfan I	MW-20	5/06/2021		.0472	.0100	ug/L
Endosulfan I	MW-20	10/07/2021		.0435	.0100	ug/L
Endosulfan I	MW-20	3/08/2023		.1120	.1000	ug/L
Endosulfan I	MW-20	10/15/2024		.1300	.0500	ug/L
Endosulfan sulfate	MW-20	2/15/2016		.0451	.0100	ug/L
Endosulfan sulfate	MW-20	7/12/2017		.0623	.0100	ug/L
Ethylbenzene	MW-20	3/11/2010		1.44	1.00	ug/L
Heptachlor	MW-20	2/15/2016		.162	.100	ug/L
Toluene	MW-20	10/31/2016		1.52	1.00	ug/L
Toluene	MW-20	6/06/2018		1.54	1.00	ug/L
Toluene	MW-20	6/06/2018		1.50	1.00	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
Toluene	MW-20	3/18/2019		1.11	1.00	ug/L
Toluene	MW-20	12/02/2019		1.81	1.00	ug/L
Acetone	MW-21	10/27/2011		10.2	10.0	ug/L
Acetone	MW-21	12/02/2019		12.2	10.0	ug/L
Carbon Disulfide	MW-21	10/09/2012		1.52	1.00	ug/L
Carbon Disulfide	MW-21	8/23/2022		4.13	1.00	ug/L
Carbon Disulfide	MW-21	10/27/2025		4.20	1.00	ug/L
Phenol	MW-21	10/09/2012		62.5	1.0	ug/L
Phenol	MW-21	10/03/2013		34.7	1.0	ug/L
Toluene	MW-21	10/03/2013		24.3	1.0	ug/L
Toluene	MW-21	3/18/2019		23.3	1.0	ug/L
Toluene	MW-21	12/02/2019		173.0	1.0	ug/L
Toluene	MW-21	3/30/2020		329.0	1.0	ug/L
Toluene	MW-21	3/30/2020		274.0	1.0	ug/L
Methylene Chloride	MW-22	7/09/2008		.80	.45	ug/L
Tetrachloroethene	MW-22	2/11/2008		.58	.38	ug/L
Bromomethane	MW-23	10/03/2013		4.02	1.00	ug/L
Carbon Tetrachloride	MW-23	4/30/2008		.370	.001	ug/L
Tetrachloroethene	MW-23	2/11/2008		.52	.38	ug/L
Chlorobenzene	MW-24	8/23/2022		1.04	1.00	ug/L
Carbon Disulfide	MW-36	10/27/2025		1.1	1.0	ug/L
PCB-1260	MW-36	10/09/2012		.965	.001	ug/L
Carbon Disulfide	MW-37R	10/27/2025		4.2	1.0	ug/L
Toluene	MW-37R	11/17/2020		1.21	1.00	ug/L
Xylenes, total	MW-37R	11/17/2020		5.25	1.00	ug/L
Toluene	MW-38R	11/17/2020		2.12	1.00	ug/L
Xylenes, total	MW-38R	11/17/2020		10.2	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

Attachment G

Summary Tables and Graphs for the LCL Comparisons – 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
1,4-Dichlorobenzene	ug/L	MW-19	4	0.500	0.000	1.176	0.500	0.500	75.000	
Benzene	ug/L	MW-19	4	0.344	0.187	1.176	0.124	0.563	5.000	
Chlorobenzene	ug/L	MW-19	4	1.240	0.108	1.176	1.113	1.367	100.000	
Chloroethane	ug/L	MW-19	4	1.800	0.400	1.176	1.329	2.271	2800.000	
1,4-Dichlorobenzene	ug/L	MW-20	4	2.256	0.651	1.176	1.490	3.022	75.000	
Benzene	ug/L	MW-20	4	2.228	0.555	1.176	1.575	2.880	5.000	
Chlorobenzene	ug/L	MW-20	4	3.214	1.044	1.176	1.986	4.441	100.000	
Chloroethane	ug/L	MW-20	4	2.000	0.000	1.176	2.000	2.000	2800.000	

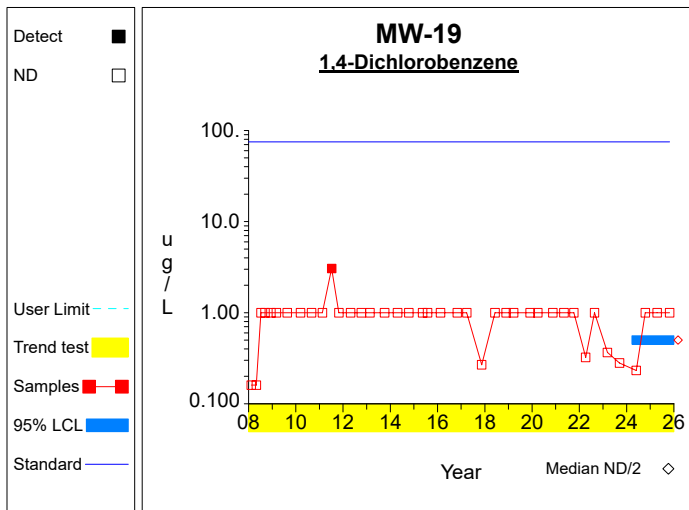
* - Insufficient Data

** - Significant Exceedance

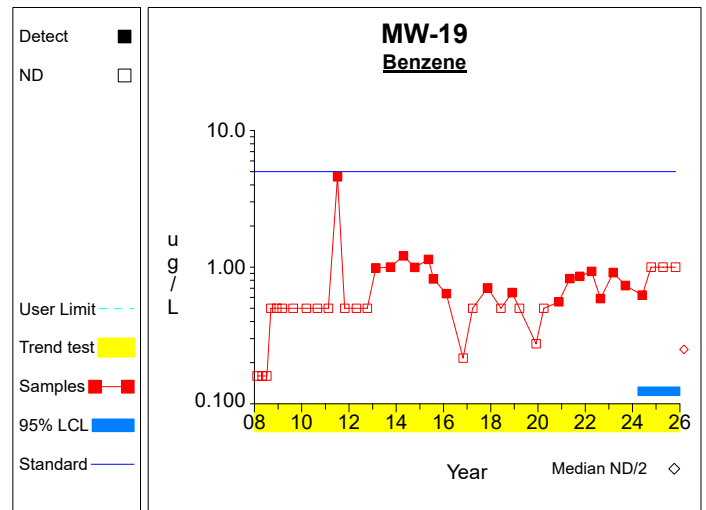
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

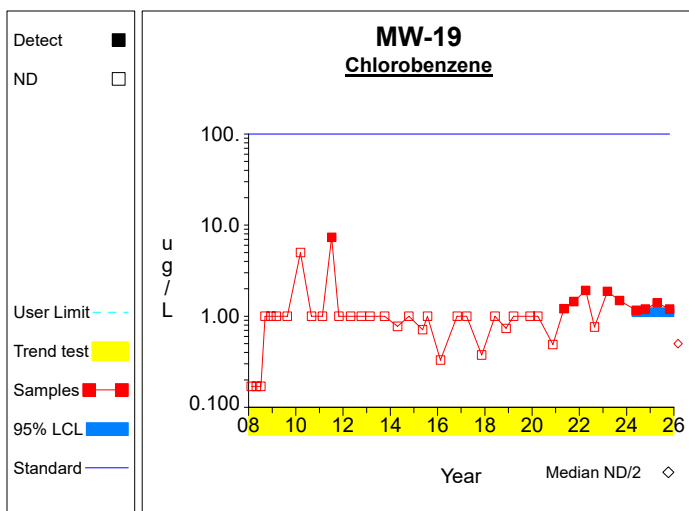
Confidence Limits (Assessment)



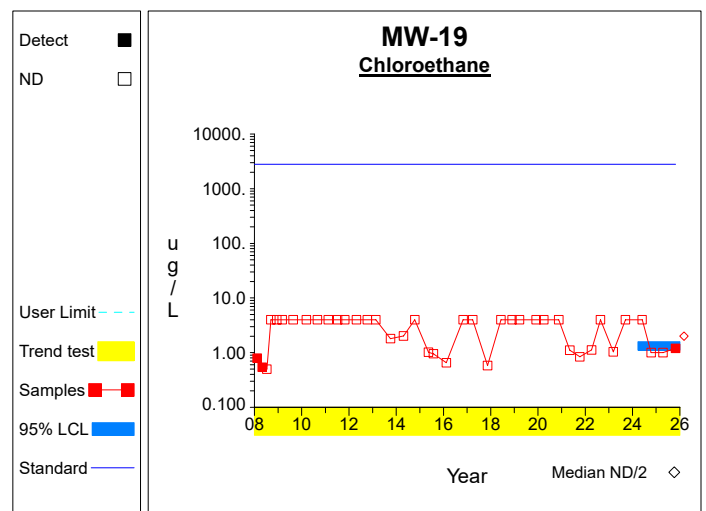
Graph 1



Graph 2

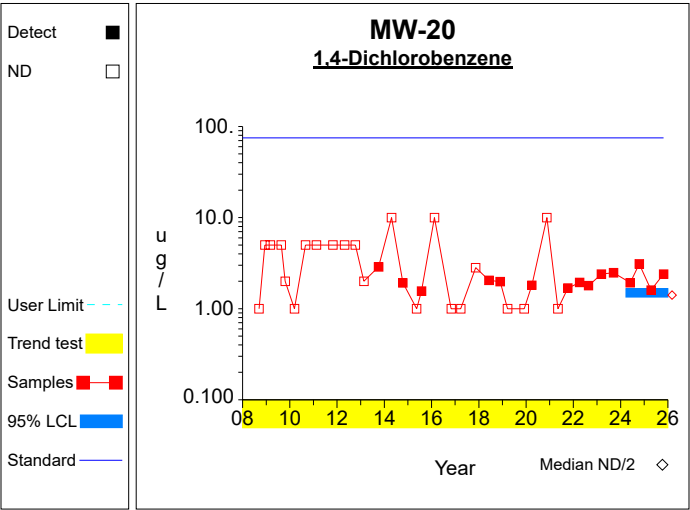


Graph 3

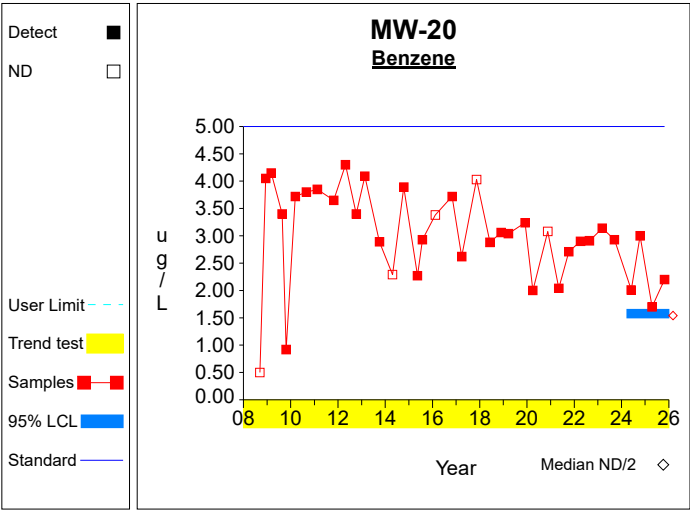


Graph 4

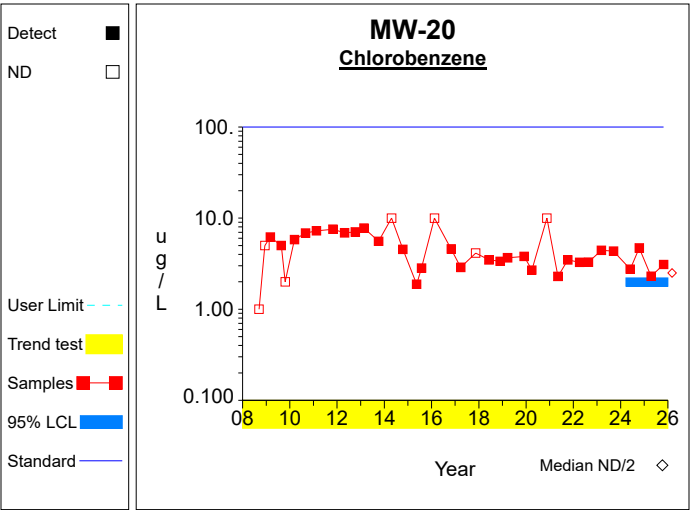
Confidence Limits (Assessment)



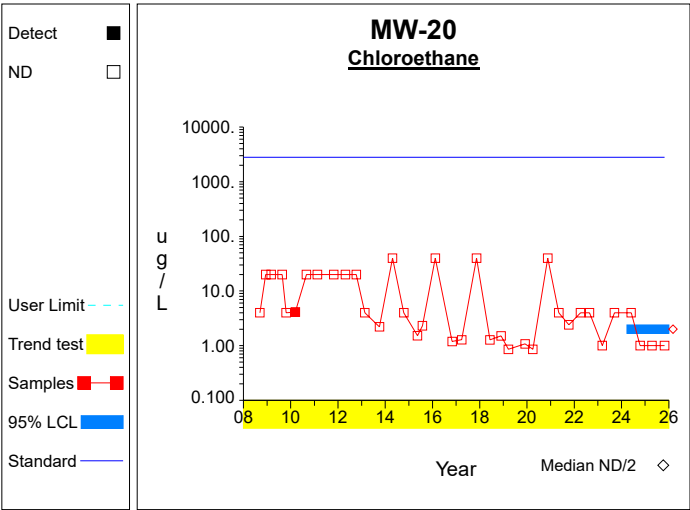
Graph 5



Graph 6



Graph 7



Graph 8

Appendix D

Laboratory Reports for Reporting Period *With Chain of Custody*



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1ID1697

Project Description

Cass Co SLF

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.

600 East 17th Street South | Newton, IA 50208 | 641-792-8451 p | www.microbac.com



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1ID1697

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: Cass Co SLF

Project / PO Number: N/A
Received: 04/17/2025
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-15R	1ID1697-01	Aqueous	GRAB		04/16/25 11:52	04/17/25 10:15
MW-19	1ID1697-02	Aqueous	GRAB		04/16/25 14:39	04/17/25 10:15
MW-20	1ID1697-03	Aqueous	GRAB		04/16/25 14:54	04/17/25 10:15
MW-21	1ID1697-04	Aqueous	GRAB		04/16/25 13:44	04/17/25 10:15
MW-24	1ID1697-05	Aqueous	GRAB		04/16/25 15:10	04/17/25 10:15
MW-37R	1ID1697-06	Aqueous	GRAB		04/16/25 14:10	04/17/25 10:15
MW-38R	1ID1697-07	Aqueous	GRAB		04/16/25 13:26	04/17/25 10:15
MW-39	1ID1697-08	Aqueous	GRAB		04/16/25 16:06	04/17/25 10:15
MW-43	1ID1697-09	Aqueous	GRAB		04/16/25 13:05	04/17/25 10:15
MW-13	1ID1697-10	Aqueous	GRAB		04/16/25 12:51	04/17/25 10:15
MW-22	1ID1697-11	Aqueous	GRAB		04/16/25 17:20	04/17/25 10:15
MW-11	1ID1697-12	Aqueous	GRAB		04/16/25 12:40	04/17/25 10:15
MW-23	1ID1697-13	Aqueous	GRAB		04/16/25 13:56	04/17/25 10:15
MW-36	1ID1697-14	Aqueous	GRAB		04/16/25 15:44	04/17/25 10:15
Duplicate	1ID1697-15	Aqueous	GRAB		04/16/25 12:40	04/17/25 10:15
MW-40	1ID1697-16	Aqueous	GRAB		04/16/25 12:17	04/17/25 10:15
MW-41	1ID1697-17	Aqueous	GRAB		04/16/25 12:12	04/17/25 10:15
MW-27	1ID1697-18	Aqueous	GRAB		04/16/25 16:55	04/17/25 10:15
MW-28	1ID1697-19	Aqueous	GRAB		04/16/25 17:03	04/17/25 10:15
MW-29	1ID1697-20	Aqueous	GRAB		04/16/25 16:23	04/17/25 10:15



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1ID1697

Analytical Testing Parameters

Client Sample ID:	MW-15R	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	04/16/2025 11:52
Lab Sample ID:	1ID1697-01		

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF

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CERTIFICATE OF ANALYSIS

11D1697

Client Sample ID: MW-15R
Sample Matrix: Aqueous
Lab Sample ID: 11D1697-01

Collected By: JGH
Collection Date: 04/16/2025 11:52

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
Bromoform		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
1,2,3-Trichloropropane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1623	RAF
Surrogate: Dibromofluoromethane	98.4	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 1623	RAF
Surrogate: Dibromofluoromethane	98.4	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 1623	RAF
Surrogate: 1,2-Dichloroethane-d4	84.8	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 1623	RAF
Surrogate: 1,2-Dichloroethane-d4	84.8	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 1623	RAF
Surrogate: Toluene-d8	97.7	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 1623	RAF
Surrogate: Toluene-d8	97.7	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 1623	RAF
Surrogate: 4-Bromofluorobenzene	96.3	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 1623	RAF
Surrogate: 4-Bromofluorobenzene	96.3	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 1623	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1455	RVV
Arsenic, total	0.0197		0.0020	mg/L		06/02/25 1638	06/21/25 1455	RVV
Barium, total	0.662		0.0010	mg/L		06/02/25 1638	06/21/25 1455	RVV
Beryllium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1455	RVV
Cadmium, total	0.0003		0.0002	mg/L		06/02/25 1638	06/21/25 1455	RVV
Chromium, total	0.0020		0.0010	mg/L		06/02/25 1638	06/21/25 1455	RVV
Cobalt, total	0.0079		0.0005	mg/L		06/02/25 1638	06/21/25 1455	RVV
Copper, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1455	RVV
Lead, total	0.0010		0.0010	mg/L		06/02/25 1638	06/21/25 1455	RVV
Nickel, total	0.0065		0.0050	mg/L		06/02/25 1638	06/21/25 1455	RVV
Selenium, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1455	RVV
Silver, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1455	RVV
Thallium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1455	RVV
Vanadium, total	0.0052		0.0020	mg/L		06/02/25 1638	06/21/25 1455	RVV
Zinc, total	0.0128		0.0050	mg/L		06/02/25 1638	06/21/25 1455	RVV

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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-19
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-02

Collected By: JGH
Collection Date: 04/16/2025 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		04/21/25 0000	04/21/25 1645	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Chlorobenzene	1.4	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF

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CERTIFICATE OF ANALYSIS

11D1697

Client Sample ID: MW-19
Sample Matrix: Aqueous
Lab Sample ID: 11D1697-02

Collected By: JGH
Collection Date: 04/16/2025 14:39

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1645	RAF
Surrogate: Dibromofluoromethane	104	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 1645	RAF
Surrogate: Dibromofluoromethane	104	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 1645	RAF
Surrogate: 1,2-Dichloroethane-d4	90.5	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 1645	RAF
Surrogate: 1,2-Dichloroethane-d4	90.5	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 1645	RAF
Surrogate: Toluene-d8	97.7	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 1645	RAF
Surrogate: Toluene-d8	97.7	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 1645	RAF
Surrogate: 4-Bromofluorobenzene	94.5	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 1645	RAF
Surrogate: 4-Bromofluorobenzene	94.5	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 1645	RAF

Determination of Organochlorine Insecticides & Metabolites		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 8081								
Gamma-Chlordane		<0.05	0.05	ug/L		04/23/25 1153	04/30/25 0833	EPP
Endosulfan I		<0.05	0.05	ug/L		04/23/25 1153	04/30/25 0833	EPP
Surrogate: Tetrachloro-m-xylene	79.8	Limit: 45-111	% Rec			04/23/25 1153	04/30/25 0833	EPP

Determination of Inorganic Anions		Result	RL	Units	Note	Prepared	Analyzed	Analyst
300.0								
Sulfate	13.3		5.0	mg/L		04/30/25 0000	04/30/25 2154	MID

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1505	RVV
Arsenic, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1505	RVV
Barium, total	1.24		0.0010	mg/L		06/02/25 1638	06/21/25 1505	RVV
Beryllium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1505	RVV
Cadmium, total	0.0003		0.0002	mg/L		06/02/25 1638	06/21/25 1505	RVV
Chromium, total	0.0022		0.0010	mg/L		06/02/25 1638	06/21/25 1505	RVV
Cobalt, total	0.0226		0.0005	mg/L		06/02/25 1638	06/21/25 1505	RVV
Copper, total	<0.0050		0.0050	mg/L		06/02/25 1638	06/21/25 1505	RVV
Lead, total	<0.0010		0.0010	mg/L		06/02/25 1638	06/21/25 1505	RVV
Nickel, total	0.0529		0.0050	mg/L		06/02/25 1638	06/21/25 1505	RVV
Selenium, total	<0.0020		0.0020	mg/L		06/02/25 1638	06/21/25 1505	RVV
Silver, total	<0.0050		0.0050	mg/L		06/02/25 1638	06/21/25 1505	RVV
Thallium, total	<0.0005		0.0005	mg/L		06/02/25 1638	06/21/25 1505	RVV
Vanadium, total	<0.0020		0.0020	mg/L		06/02/25 1638	06/21/25 1505	RVV
Zinc, total	0.0058		0.0050	mg/L		06/02/25 1638	06/21/25 1505	RVV



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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-20
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-03

Collection Date: 04/16/2025 14:54

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Benzene	1.7	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Chlorobenzene	2.3	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF

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CERTIFICATE OF ANALYSIS

11D1697

Client Sample ID: MW-20
Sample Matrix: Aqueous
Lab Sample ID: 11D1697-03

Collection Date: 04/16/2025 14:54

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst

trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
1,4-Dichlorobenzene	1.6	1.0	ug/L			04/21/25 0000	04/21/25 1707	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1707	RAF
Surrogate: Dibromofluoromethane	105	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 1707	RAF
Surrogate: Dibromofluoromethane	105	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 1707	RAF
Surrogate: 1,2-Dichloroethane-d4	93.5	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 1707	RAF
Surrogate: 1,2-Dichloroethane-d4	93.5	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 1707	RAF
Surrogate: Toluene-d8	99.4	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 1707	RAF
Surrogate: Toluene-d8	99.4	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 1707	RAF
Surrogate: 4-Bromofluorobenzene	93.0	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 1707	RAF
Surrogate: 4-Bromofluorobenzene	93.0	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 1707	RAF

Determination of Chlorinated Phenoxy Herbicides	Result	RL	Units	Note	Prepared	Analyzed	Analyst

EPA 8151A

2,4,5-T		<0.5	0.5	ug/L		04/21/25 1214	04/24/25 1628	PDS
Surrogate: 2,5-Dichlorobenzoic Acid	125	Limit: 49-174	% Rec			04/21/25 1214	04/24/25 1628	PDS

Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	Note	Prepared	Analyzed	Analyst

EPA 8081

Gamma-Chlordane		<0.05	0.05	ug/L		04/23/25 1153	04/30/25 0851	EPP
Endosulfan I		<0.05	0.05	ug/L		04/23/25 1153	04/30/25 0851	EPP
Surrogate: Tetrachloro-m-xylene	69.1	Limit: 45-111	% Rec			04/23/25 1153	04/30/25 0851	EPP

Determination of Inorganic Anions	Result	RL	Units	Note	Prepared	Analyzed	Analyst

300.0

Sulfate		<1.0	1.0	mg/L		05/01/25 0000	05/01/25 1133	MID

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst

EPA 3005A/EPA 6020A

Antimony, total	<0.0010	0.0010	mg/L			06/02/25 1638	06/21/25 1507	RVV
Arsenic, total	0.0712	0.0020	mg/L			06/02/25 1638	06/21/25 1507	RVV
Barium, total	1.78	0.0010	mg/L			06/02/25 1638	06/21/25 1507	RVV
Beryllium, total	<0.0005	0.0005	mg/L			06/02/25 1638	06/21/25 1507	RVV
Cadmium, total	<0.0002	0.0002	mg/L			06/02/25 1638	06/21/25 1507	RVV
Chromium, total	0.0015	0.0010	mg/L			06/02/25 1638	06/21/25 1507	RVV
Cobalt, total	0.0036	0.0005	mg/L			06/02/25 1638	06/21/25 1507	RVV
Copper, total	<0.0050	0.0050	mg/L			06/02/25 1638	06/21/25 1507	RVV
Lead, total	<0.0010	0.0010	mg/L			06/02/25 1638	06/21/25 1507	RVV
Nickel, total	0.0095	0.0050	mg/L			06/02/25 1638	06/21/25 1507	RVV
Selenium, total	<0.0020	0.0020	mg/L			06/02/25 1638	06/21/25 1507	RVV

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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-20
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-03

Collection Date: 04/16/2025 14:54

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Silver, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1507	RVV
Thallium, total	<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1507	RVV
Vanadium, total	0.0022	0.0020	mg/L		06/02/25 1638	06/21/25 1507	RVV
Zinc, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1507	RVV



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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-21
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-04

Collected By: JGH
Collection Date: 04/16/2025 13:44

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF

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CERTIFICATE OF ANALYSIS

11D1697

Client Sample ID: MW-21
Sample Matrix: Aqueous
Lab Sample ID: 11D1697-04

Collected By: JGH
Collection Date: 04/16/2025 13:44

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1729	RAF
Surrogate: Dibromofluoromethane	105	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 1729	RAF
Surrogate: Dibromofluoromethane	105	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 1729	RAF
Surrogate: 1,2-Dichloroethane-d4	91.0	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 1729	RAF
Surrogate: 1,2-Dichloroethane-d4	91.0	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 1729	RAF
Surrogate: Toluene-d8	97.9	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 1729	RAF
Surrogate: Toluene-d8	97.9	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 1729	RAF
Surrogate: 4-Bromofluorobenzene	93.2	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 1729	RAF
Surrogate: 4-Bromofluorobenzene	93.2	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 1729	RAF

Determination of Inorganic Anions		Result	RL	Units	Note	Prepared	Analyzed	Analyst
300.0								
Sulfate	15.8		5.0	mg/L		04/30/25 0000	04/30/25 2249	MID

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0010	0.0010	mg/L			06/02/25 1638	06/21/25 1515	RVV
Arsenic, total	<0.0020	0.0020	mg/L			06/02/25 1638	06/21/25 1515	RVV
Barium, total	1.05	0.0010	mg/L			06/02/25 1638	06/21/25 1515	RVV
Beryllium, total	<0.0005	0.0005	mg/L			06/02/25 1638	06/21/25 1515	RVV
Cadmium, total	<0.0002	0.0002	mg/L			06/02/25 1638	06/21/25 1515	RVV
Chromium, total	0.0014	0.0010	mg/L			06/02/25 1638	06/21/25 1515	RVV
Cobalt, total	0.0190	0.0005	mg/L			06/02/25 1638	06/21/25 1515	RVV
Copper, total	<0.0050	0.0050	mg/L			06/02/25 1638	06/21/25 1515	RVV
Lead, total	<0.0010	0.0010	mg/L			06/02/25 1638	06/21/25 1515	RVV
Nickel, total	0.0180	0.0050	mg/L			06/02/25 1638	06/21/25 1515	RVV
Selenium, total	<0.0020	0.0020	mg/L			06/02/25 1638	06/21/25 1515	RVV
Silver, total	<0.0050	0.0050	mg/L			06/02/25 1638	06/21/25 1515	RVV
Thallium, total	<0.0005	0.0005	mg/L			06/02/25 1638	06/21/25 1515	RVV
Vanadium, total	<0.0020	0.0020	mg/L			06/02/25 1638	06/21/25 1515	RVV
Zinc, total	<0.0050	0.0050	mg/L			06/02/25 1638	06/21/25 1515	RVV



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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-24
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-05

Collected By: JGH
Collection Date: 04/16/2025 15:10

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF

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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-24
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-05

Collected By: JGH
Collection Date: 04/16/2025 15:10

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1752	RAF
Surrogate: Dibromofluoromethane	104	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 1752	RAF
Surrogate: Dibromofluoromethane	104	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 1752	RAF
Surrogate: 1,2-Dichloroethane-d4	92.0	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 1752	RAF
Surrogate: 1,2-Dichloroethane-d4	92.0	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 1752	RAF
Surrogate: Toluene-d8	101	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 1752	RAF
Surrogate: Toluene-d8	101	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 1752	RAF
Surrogate: 4-Bromofluorobenzene	94.2	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 1752	RAF
Surrogate: 4-Bromofluorobenzene	94.2	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 1752	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1518	RVV
Arsenic, total	0.0042	0.0020	mg/L			06/02/25 1638	06/21/25 1518	RVV
Barium, total	0.779	0.0010	mg/L			06/02/25 1638	06/21/25 1518	RVV
Beryllium, total	<0.0005	0.0005	mg/L			06/02/25 1638	06/21/25 1518	RVV
Cadmium, total	0.0010	0.0002	mg/L			06/02/25 1638	06/21/25 1518	RVV
Chromium, total	0.0011	0.0010	mg/L			06/02/25 1638	06/21/25 1518	RVV
Cobalt, total	0.0029	0.0005	mg/L			06/02/25 1638	06/21/25 1518	RVV
Copper, total	<0.0050	0.0050	mg/L			06/02/25 1638	06/21/25 1518	RVV
Lead, total	<0.0010	0.0010	mg/L			06/02/25 1638	06/21/25 1518	RVV
Nickel, total	0.0313	0.0050	mg/L			06/02/25 1638	06/21/25 1518	RVV
Selenium, total	<0.0020	0.0020	mg/L			06/02/25 1638	06/21/25 1518	RVV
Silver, total	<0.0050	0.0050	mg/L			06/02/25 1638	06/21/25 1518	RVV
Thallium, total	<0.0005	0.0005	mg/L			06/02/25 1638	06/21/25 1518	RVV
Vanadium, total	<0.0020	0.0020	mg/L			06/02/25 1638	06/21/25 1518	RVV
Zinc, total	<0.0050	0.0050	mg/L			06/02/25 1638	06/21/25 1518	RVV

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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-37R
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-06

Collected By: JGH
Collection Date: 04/16/2025 14:10

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF

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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-37R
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-06

Collected By: JGH
Collection Date: 04/16/2025 14:10

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1814	RAF
Surrogate: Dibromofluoromethane	102	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 1814	RAF
Surrogate: Dibromofluoromethane	102	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 1814	RAF
Surrogate: 1,2-Dichloroethane-d4	89.3	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 1814	RAF
Surrogate: 1,2-Dichloroethane-d4	89.3	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 1814	RAF
Surrogate: Toluene-d8	96.8	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 1814	RAF
Surrogate: Toluene-d8	96.8	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 1814	RAF
Surrogate: 4-Bromofluorobenzene	93.9	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 1814	RAF
Surrogate: 4-Bromofluorobenzene	93.9	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 1814	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1520	RVV
Arsenic, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1520	RVV
Barium, total	0.687	0.0010	mg/L			06/02/25 1638	06/21/25 1520	RVV
Beryllium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1520	RVV
Cadmium, total		<0.0002	0.0002	mg/L		06/02/25 1638	06/21/25 1520	RVV
Chromium, total	0.0018	0.0010	mg/L			06/02/25 1638	06/21/25 1520	RVV
Cobalt, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1520	RVV
Copper, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1520	RVV
Lead, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1520	RVV
Nickel, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1520	RVV
Selenium, total	0.0503	0.0020	mg/L			06/02/25 1638	06/21/25 1520	RVV
Silver, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1520	RVV
Thallium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1520	RVV
Vanadium, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1520	RVV
Zinc, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1520	RVV

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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-38R
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-07

Collected By: JGH
Collection Date: 04/16/2025 13:26

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF

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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-38R
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-07

Collected By: JGH
Collection Date: 04/16/2025 13:26

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1836	RAF
Surrogate: Dibromofluoromethane	105	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 1836	RAF
Surrogate: Dibromofluoromethane	105	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 1836	RAF
Surrogate: 1,2-Dichloroethane-d4	90.2	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 1836	RAF
Surrogate: 1,2-Dichloroethane-d4	90.2	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 1836	RAF
Surrogate: Toluene-d8	99.3	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 1836	RAF
Surrogate: Toluene-d8	99.3	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 1836	RAF
Surrogate: 4-Bromofluorobenzene	95.3	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 1836	RAF
Surrogate: 4-Bromofluorobenzene	95.3	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 1836	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1523	RVV
Arsenic, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1523	RVV
Barium, total	0.215		0.0010	mg/L		06/02/25 1638	06/21/25 1523	RVV
Beryllium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1523	RVV
Cadmium, total	0.0002		0.0002	mg/L		06/02/25 1638	06/21/25 1523	RVV
Chromium, total	0.0032		0.0010	mg/L		06/02/25 1638	06/21/25 1523	RVV
Cobalt, total	0.0005		0.0005	mg/L		06/02/25 1638	06/21/25 1523	RVV
Copper, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1523	RVV
Lead, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1523	RVV
Nickel, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1523	RVV
Selenium, total	0.0032		0.0020	mg/L		06/02/25 1638	06/21/25 1523	RVV
Silver, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1523	RVV
Thallium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1523	RVV
Vanadium, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1523	RVV
Zinc, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1523	RVV

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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-39
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-08

Collected By: JGH
Collection Date: 04/16/2025 16:06

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF

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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-39
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-08

Collected By: JGH
Collection Date: 04/16/2025 16:06

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1858	RAF
Surrogate: Dibromofluoromethane	103	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 1858	RAF
Surrogate: Dibromofluoromethane	103	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 1858	RAF
Surrogate: 1,2-Dichloroethane-d4	88.7	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 1858	RAF
Surrogate: 1,2-Dichloroethane-d4	88.7	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 1858	RAF
Surrogate: Toluene-d8	100	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 1858	RAF
Surrogate: Toluene-d8	100	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 1858	RAF
Surrogate: 4-Bromofluorobenzene	96.2	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 1858	RAF
Surrogate: 4-Bromofluorobenzene	96.2	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 1858	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1525	RVV
Arsenic, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1525	RVV
Barium, total	0.0958	0.0010	mg/L			06/02/25 1638	06/21/25 1525	RVV
Beryllium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1525	RVV
Cadmium, total		<0.0002	0.0002	mg/L		06/02/25 1638	06/21/25 1525	RVV
Chromium, total	0.0018	0.0010	mg/L			06/02/25 1638	06/21/25 1525	RVV
Cobalt, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1525	RVV
Copper, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1525	RVV
Lead, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1525	RVV
Nickel, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1525	RVV
Selenium, total	0.0715	0.0020	mg/L			06/02/25 1638	06/21/25 1525	RVV
Silver, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1525	RVV
Thallium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1525	RVV
Vanadium, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1525	RVV
Zinc, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1525	RVV

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1ID1697

Client Sample ID: MW-43
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-09

Collected By: JGH
Collection Date: 04/16/2025 13:05

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF

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11D1697

Client Sample ID: MW-43
Sample Matrix: Aqueous
Lab Sample ID: 11D1697-09

Collected By: JGH
Collection Date: 04/16/2025 13:05

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1921	RAF
Surrogate: Dibromofluoromethane	104	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 1921	RAF
Surrogate: Dibromofluoromethane	104	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 1921	RAF
Surrogate: 1,2-Dichloroethane-d4	89.4	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 1921	RAF
Surrogate: 1,2-Dichloroethane-d4	89.4	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 1921	RAF
Surrogate: Toluene-d8	101	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 1921	RAF
Surrogate: Toluene-d8	101	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 1921	RAF
Surrogate: 4-Bromofluorobenzene	98.0	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 1921	RAF
Surrogate: 4-Bromofluorobenzene	98.0	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 1921	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1528	RVV
Arsenic, total	0.0068	0.0020	mg/L			06/02/25 1638	06/21/25 1528	RVV
Barium, total	0.392	0.0010	mg/L			06/02/25 1638	06/21/25 1528	RVV
Beryllium, total	<0.0005	0.0005	mg/L			06/02/25 1638	06/21/25 1528	RVV
Cadmium, total	<0.0002	0.0002	mg/L			06/02/25 1638	06/21/25 1528	RVV
Chromium, total	0.0029	0.0010	mg/L			06/02/25 1638	06/21/25 1528	RVV
Cobalt, total	0.0025	0.0005	mg/L			06/02/25 1638	06/21/25 1528	RVV
Copper, total	<0.0050	0.0050	mg/L			06/02/25 1638	06/21/25 1528	RVV
Lead, total	<0.0010	0.0010	mg/L			06/02/25 1638	06/21/25 1528	RVV
Nickel, total	0.0064	0.0050	mg/L			06/02/25 1638	06/21/25 1528	RVV
Selenium, total	<0.0020	0.0020	mg/L			06/02/25 1638	06/21/25 1528	RVV
Silver, total	<0.0050	0.0050	mg/L			06/02/25 1638	06/21/25 1528	RVV
Thallium, total	<0.0005	0.0005	mg/L			06/02/25 1638	06/21/25 1528	RVV
Vanadium, total	0.0026	0.0020	mg/L			06/02/25 1638	06/21/25 1528	RVV
Zinc, total	<0.0050	0.0050	mg/L			06/02/25 1638	06/21/25 1528	RVV

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1ID1697

Client Sample ID: MW-13
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-10

Collected By: JGH
Collection Date: 04/16/2025 12:51

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF

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CERTIFICATE OF ANALYSIS

11D1697

Client Sample ID: MW-13
Sample Matrix: Aqueous
Lab Sample ID: 11D1697-10

Collected By: JGH
Collection Date: 04/16/2025 12:51

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 1943	RAF
Surrogate: Dibromofluoromethane	107	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 1943	RAF
Surrogate: Dibromofluoromethane	107	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 1943	RAF
Surrogate: 1,2-Dichloroethane-d4	94.0	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 1943	RAF
Surrogate: 1,2-Dichloroethane-d4	94.0	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 1943	RAF
Surrogate: Toluene-d8	97.2	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 1943	RAF
Surrogate: Toluene-d8	97.2	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 1943	RAF
Surrogate: 4-Bromofluorobenzene	94.0	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 1943	RAF
Surrogate: 4-Bromofluorobenzene	94.0	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 1943	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1530	RVV
Arsenic, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1530	RVV
Barium, total	0.218	0.0010	mg/L			06/02/25 1638	06/21/25 1530	RVV
Beryllium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1530	RVV
Cadmium, total		<0.0002	0.0002	mg/L		06/02/25 1638	06/21/25 1530	RVV
Chromium, total	0.0019	0.0010	mg/L			06/02/25 1638	06/21/25 1530	RVV
Cobalt, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1530	RVV
Copper, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1530	RVV
Lead, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1530	RVV
Nickel, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1530	RVV
Selenium, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1530	RVV
Silver, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1530	RVV
Thallium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1530	RVV
Vanadium, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1530	RVV
Zinc, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1530	RVV

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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-22
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-11

Collected By: JGH
Collection Date: 04/16/2025 17:20

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF

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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-22
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-11

Collected By: JGH
Collection Date: 04/16/2025 17:20

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2005	RAF
Surrogate: Dibromofluoromethane	114	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 2005	RAF
Surrogate: Dibromofluoromethane	114	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 2005	RAF
Surrogate: 1,2-Dichloroethane-d4	99.3	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 2005	RAF
Surrogate: 1,2-Dichloroethane-d4	99.3	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 2005	RAF
Surrogate: Toluene-d8	97.4	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 2005	RAF
Surrogate: Toluene-d8	97.4	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 2005	RAF
Surrogate: 4-Bromofluorobenzene	95.9	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 2005	RAF
Surrogate: 4-Bromofluorobenzene	95.9	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 2005	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	0.0056	0.0010	mg/L			06/02/25 1638	06/21/25 1533	RVV
Arsenic, total	<0.0020	0.0020	mg/L			06/02/25 1638	06/21/25 1533	RVV
Barium, total	0.283	0.0010	mg/L			06/02/25 1638	06/21/25 1533	RVV
Beryllium, total	<0.0005	0.0005	mg/L			06/02/25 1638	06/21/25 1533	RVV
Cadmium, total	0.0002	0.0002	mg/L			06/02/25 1638	06/21/25 1533	RVV
Chromium, total	0.0017	0.0010	mg/L			06/02/25 1638	06/21/25 1533	RVV
Cobalt, total	<0.0005	0.0005	mg/L			06/02/25 1638	06/21/25 1533	RVV
Copper, total	<0.0050	0.0050	mg/L			06/02/25 1638	06/21/25 1533	RVV
Lead, total	<0.0010	0.0010	mg/L			06/02/25 1638	06/21/25 1533	RVV
Nickel, total	<0.0050	0.0050	mg/L			06/02/25 1638	06/21/25 1533	RVV
Selenium, total	<0.0020	0.0020	mg/L			06/02/25 1638	06/21/25 1533	RVV
Silver, total	<0.0050	0.0050	mg/L			06/02/25 1638	06/21/25 1533	RVV
Thallium, total	<0.0005	0.0005	mg/L			06/02/25 1638	06/21/25 1533	RVV
Vanadium, total	<0.0020	0.0020	mg/L			06/02/25 1638	06/21/25 1533	RVV
Zinc, total	<0.0050	0.0050	mg/L			06/02/25 1638	06/21/25 1533	RVV

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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-11
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-12

Collected By: JGH
Collection Date: 04/16/2025 12:40

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF

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CERTIFICATE OF ANALYSIS

11D1697

Client Sample ID: MW-11
Sample Matrix: Aqueous
Lab Sample ID: 11D1697-12

Collected By: JGH
Collection Date: 04/16/2025 12:40

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2027	RAF
Surrogate: Dibromofluoromethane	113	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 2027	RAF
Surrogate: Dibromofluoromethane	113	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 2027	RAF
Surrogate: 1,2-Dichloroethane-d4	97.3	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 2027	RAF
Surrogate: 1,2-Dichloroethane-d4	97.3	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 2027	RAF
Surrogate: Toluene-d8	96.7	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 2027	RAF
Surrogate: Toluene-d8	96.7	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 2027	RAF
Surrogate: 4-Bromofluorobenzene	95.4	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 2027	RAF
Surrogate: 4-Bromofluorobenzene	95.4	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 2027	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1535	RVV
Arsenic, total		0.0177	0.0020	mg/L		06/02/25 1638	06/21/25 1535	RVV
Barium, total		0.608	0.0010	mg/L		06/02/25 1638	06/21/25 1535	RVV
Beryllium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1535	RVV
Cadmium, total		0.0016	0.0002	mg/L		06/02/25 1638	06/21/25 1535	RVV
Chromium, total		0.0045	0.0010	mg/L		06/02/25 1638	06/21/25 1535	RVV
Cobalt, total		0.0142	0.0005	mg/L		06/02/25 1638	06/21/25 1535	RVV
Copper, total		0.104	0.0050	mg/L		06/02/25 1638	06/21/25 1535	RVV
Lead, total		0.0030	0.0010	mg/L		06/02/25 1638	06/21/25 1535	RVV
Nickel, total		0.0231	0.0050	mg/L		06/02/25 1638	06/21/25 1535	RVV
Selenium, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1535	RVV
Silver, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1535	RVV
Thallium, total		0.0006	0.0005	mg/L		06/02/25 1638	06/21/25 1535	RVV
Vanadium, total		0.0075	0.0020	mg/L		06/02/25 1638	06/21/25 1535	RVV
Zinc, total		0.131	0.0050	mg/L		06/02/25 1638	06/21/25 1535	RVV

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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-23
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-13

Collected By: JGH
Collection Date: 04/16/2025 13:56

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF

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CERTIFICATE OF ANALYSIS

11D1697

Client Sample ID: MW-23
Sample Matrix: Aqueous
Lab Sample ID: 11D1697-13

Collected By: JGH
Collection Date: 04/16/2025 13:56

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2049	RAF
Surrogate: Dibromofluoromethane	109	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 2049	RAF
Surrogate: Dibromofluoromethane	109	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 2049	RAF
Surrogate: 1,2-Dichloroethane-d4	95.7	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 2049	RAF
Surrogate: 1,2-Dichloroethane-d4	95.7	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 2049	RAF
Surrogate: Toluene-d8	94.6	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 2049	RAF
Surrogate: Toluene-d8	94.6	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 2049	RAF
Surrogate: 4-Bromofluorobenzene	97.9	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 2049	RAF
Surrogate: 4-Bromofluorobenzene	97.9	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 2049	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1538	RVV
Arsenic, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1538	RVV
Barium, total	0.0391	0.0010	mg/L			06/02/25 1638	06/21/25 1538	RVV
Beryllium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1538	RVV
Cadmium, total		<0.0002	0.0002	mg/L		06/02/25 1638	06/21/25 1538	RVV
Chromium, total	0.0018	0.0010	mg/L			06/02/25 1638	06/21/25 1538	RVV
Cobalt, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1538	RVV
Copper, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1538	RVV
Lead, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1538	RVV
Nickel, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1538	RVV
Selenium, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1538	RVV
Silver, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1538	RVV
Thallium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1538	RVV
Vanadium, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1538	RVV
Zinc, total	0.0050	0.0050	mg/L			06/02/25 1638	06/21/25 1538	RVV

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CERTIFICATE OF ANALYSIS

1ID1697

Client Sample ID: MW-36
Sample Matrix: Aqueous
Lab Sample ID: 1ID1697-14

Collected By: JGH
Collection Date: 04/16/2025 15:44

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF

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CERTIFICATE OF ANALYSIS

11D1697

Client Sample ID: MW-36
Sample Matrix: Aqueous
Lab Sample ID: 11D1697-14

Collected By: JGH
Collection Date: 04/16/2025 15:44

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2112	RAF
Surrogate: Dibromofluoromethane	110	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 2112	RAF
Surrogate: Dibromofluoromethane	110	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 2112	RAF
Surrogate: 1,2-Dichloroethane-d4	97.8	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 2112	RAF
Surrogate: 1,2-Dichloroethane-d4	97.8	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 2112	RAF
Surrogate: Toluene-d8	97.9	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 2112	RAF
Surrogate: Toluene-d8	97.9	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 2112	RAF
Surrogate: 4-Bromofluorobenzene	92.8	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 2112	RAF
Surrogate: 4-Bromofluorobenzene	92.8	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 2112	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1545	RVV
Arsenic, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1545	RVV
Barium, total	0.134		0.0010	mg/L		06/02/25 1638	06/21/25 1545	RVV
Beryllium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1545	RVV
Cadmium, total	0.0010		0.0002	mg/L		06/02/25 1638	06/21/25 1545	RVV
Chromium, total	0.0013		0.0010	mg/L		06/02/25 1638	06/21/25 1545	RVV
Cobalt, total	0.0012		0.0005	mg/L		06/02/25 1638	06/21/25 1545	RVV
Copper, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1545	RVV
Lead, total		<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1545	RVV
Nickel, total	0.0062		0.0050	mg/L		06/02/25 1638	06/21/25 1545	RVV
Selenium, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1545	RVV
Silver, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1545	RVV
Thallium, total		<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1545	RVV
Vanadium, total		<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1545	RVV
Zinc, total		<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1545	RVV

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CERTIFICATE OF ANALYSIS

11D1697

Client Sample ID:	Duplicate	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	04/16/2025 12:40
Lab Sample ID:	11D1697-15		

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1548	RVV
Arsenic, total	0.0184	0.0020	mg/L		06/02/25 1638	06/21/25 1548	RVV
Barium, total	0.649	0.0010	mg/L		06/02/25 1638	06/21/25 1548	RVV
Beryllium, total	<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1548	RVV
Cadmium, total	0.0017	0.0002	mg/L		06/02/25 1638	06/21/25 1548	RVV
Chromium, total	0.0042	0.0010	mg/L		06/02/25 1638	06/21/25 1548	RVV
Cobalt, total	0.0146	0.0005	mg/L		06/02/25 1638	06/21/25 1548	RVV
Copper, total	0.117	0.0050	mg/L		06/02/25 1638	06/21/25 1548	RVV
Lead, total	0.0030	0.0010	mg/L		06/02/25 1638	06/21/25 1548	RVV
Nickel, total	0.0224	0.0050	mg/L		06/02/25 1638	06/21/25 1548	RVV
Selenium, total	<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1548	RVV
Silver, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1548	RVV
Thallium, total	0.0006	0.0005	mg/L		06/02/25 1638	06/21/25 1548	RVV
Vanadium, total	0.0084	0.0020	mg/L		06/02/25 1638	06/21/25 1548	RVV
Zinc, total	0.126	0.0050	mg/L		06/02/25 1638	06/21/25 1548	RVV

Client Sample ID:	MW-40	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	04/16/2025 12:17
Lab Sample ID:	11D1697-16		

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1550	RVV
Arsenic, total	<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1550	RVV
Barium, total	0.607	0.0010	mg/L		06/02/25 1638	06/21/25 1550	RVV
Beryllium, total	0.0022	0.0005	mg/L		06/02/25 1638	06/21/25 1550	RVV
Cadmium, total	0.0043	0.0002	mg/L		06/02/25 1638	06/21/25 1550	RVV
Chromium, total	0.0398	0.0010	mg/L		06/02/25 1638	06/21/25 1550	RVV
Cobalt, total	0.0619	0.0005	mg/L		06/02/25 1638	06/21/25 1550	RVV
Copper, total	0.0578	0.0050	mg/L		06/02/25 1638	06/21/25 1550	RVV
Lead, total	0.0525	0.0010	mg/L		06/02/25 1638	06/21/25 1550	RVV
Nickel, total	0.0670	0.0050	mg/L		06/02/25 1638	06/21/25 1550	RVV
Selenium, total	<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1550	RVV
Silver, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1550	RVV
Thallium, total	0.0007	0.0005	mg/L		06/02/25 1638	06/21/25 1550	RVV
Vanadium, total	0.0668	0.0020	mg/L		06/02/25 1638	06/21/25 1550	RVV
Zinc, total	0.0951	0.0050	mg/L		06/02/25 1638	06/21/25 1550	RVV

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CERTIFICATE OF ANALYSIS

11D1697

Client Sample ID:	MW-41	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	04/16/2025 12:12
Lab Sample ID:	11D1697-17		

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1553	RVV
Arsenic, total	<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1553	RVV
Barium, total	0.223	0.0010	mg/L		06/02/25 1638	06/21/25 1553	RVV
Beryllium, total	<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1553	RVV
Cadmium, total	0.0003	0.0002	mg/L		06/02/25 1638	06/21/25 1553	RVV
Chromium, total	0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1553	RVV
Cobalt, total	<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1553	RVV
Copper, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1553	RVV
Lead, total	<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1553	RVV
Nickel, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1553	RVV
Selenium, total	<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1553	RVV
Silver, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1553	RVV
Thallium, total	<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1553	RVV
Vanadium, total	<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1553	RVV
Zinc, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1553	RVV

Client Sample ID:	MW-27	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	04/16/2025 16:55
Lab Sample ID:	11D1697-18		

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1555	RVV
Arsenic, total	<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1555	RVV
Barium, total	0.329	0.0010	mg/L		06/02/25 1638	06/21/25 1555	RVV
Beryllium, total	<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1555	RVV
Cadmium, total	<0.0002	0.0002	mg/L		06/02/25 1638	06/21/25 1555	RVV
Chromium, total	0.0021	0.0010	mg/L		06/02/25 1638	06/21/25 1555	RVV
Cobalt, total	<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1555	RVV
Copper, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1555	RVV
Lead, total	<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1555	RVV
Nickel, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1555	RVV
Selenium, total	<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1555	RVV
Silver, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1555	RVV
Thallium, total	<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1555	RVV
Vanadium, total	<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1555	RVV
Zinc, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1555	RVV

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CERTIFICATE OF ANALYSIS

11D1697

Client Sample ID:	MW-28	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	04/16/2025 17:03
Lab Sample ID:	11D1697-19		

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1558	RVV
Arsenic, total	<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1558	RVV
Barium, total	0.0800	0.0010	mg/L		06/02/25 1638	06/21/25 1558	RVV
Beryllium, total	<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1558	RVV
Cadmium, total	0.0002	0.0002	mg/L		06/02/25 1638	06/21/25 1558	RVV
Chromium, total	0.0019	0.0010	mg/L		06/02/25 1638	06/21/25 1558	RVV
Cobalt, total	<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1558	RVV
Copper, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1558	RVV
Lead, total	<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1558	RVV
Nickel, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1558	RVV
Selenium, total	<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1558	RVV
Silver, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1558	RVV
Thallium, total	<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1558	RVV
Vanadium, total	<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1558	RVV
Zinc, total	0.0061	0.0050	mg/L		06/02/25 1638	06/21/25 1558	RVV

Client Sample ID:	MW-29	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	04/16/2025 16:23
Lab Sample ID:	11D1697-20		

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1601	RVV
Arsenic, total	<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1601	RVV
Barium, total	0.303	0.0010	mg/L		06/02/25 1638	06/21/25 1601	RVV
Beryllium, total	<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1601	RVV
Cadmium, total	<0.0002	0.0002	mg/L		06/02/25 1638	06/21/25 1601	RVV
Chromium, total	0.0038	0.0010	mg/L		06/02/25 1638	06/21/25 1601	RVV
Cobalt, total	<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1601	RVV
Copper, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1601	RVV
Lead, total	<0.0010	0.0010	mg/L		06/02/25 1638	06/21/25 1601	RVV
Nickel, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1601	RVV
Selenium, total	0.0024	0.0020	mg/L		06/02/25 1638	06/21/25 1601	RVV
Silver, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1601	RVV
Thallium, total	<0.0005	0.0005	mg/L		06/02/25 1638	06/21/25 1601	RVV
Vanadium, total	<0.0020	0.0020	mg/L		06/02/25 1638	06/21/25 1601	RVV
Zinc, total	<0.0050	0.0050	mg/L		06/02/25 1638	06/21/25 1601	RVV

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1ID1697

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 8151A	1ID1076	1ID1076-BLK1	
		1ID1697-03	MW-20
		1ID1076-BS1	
		1ID1076-BSD1	
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1ID1138	1ID1138-BS1	
		1ID1138-BLK1	
		1ID1138-BSD1	
		1ID1697-01	MW-15R
		1ID1697-02	MW-19
		1ID1697-03	MW-20
		1ID1697-04	MW-21
		1ID1697-05	MW-24
		1ID1697-06	MW-37R
		1ID1697-07	MW-38R
		1ID1697-08	MW-39
		1ID1697-09	MW-43
		1ID1697-10	MW-13
		1ID1697-11	MW-22
		1ID1697-12	MW-11
		1ID1697-13	MW-23
		1ID1697-14	MW-36
		1ID1138-MS1	1ID1594-21
		1ID1138-MSD1	1ID1594-21
Method	Batch	Laboratory ID	Client / Source ID
EPA 8081	1ID1239	1ID1239-BLK1	
		1ID1239-BS1	
		1ID1239-BSD1	
		1ID1239-SRM1	
		1ID1697-02	MW-19
		1ID1697-03	MW-20
Method	Batch	Laboratory ID	Client / Source ID
300.0	1IE0013	1IE0013-BLK1	
		1IE0013-MRL1	
		1IE0013-BS1	
		1IE0013-BSD1	
		1IE0013-BLK2	

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1ID1697

300.0	1IE0013	1ID1697-02	MW-19
		1IE0013-MS1	1ID1697-02
		1IE0013-MSD1	1ID1697-02
		1ID1697-04	MW-21

Method	Batch	Laboratory ID	Client / Source ID

300.0	1IE0095	1IE0095-BLK1	
		1IE0095-MRL1	
		1IE0095-BS1	
		1IE0095-BSD1	
		1ID1697-03	MW-20
		1IE0095-MS1	1ID1821-02
		1IE0095-MSD1	1ID1821-02

Method	Batch	Laboratory ID	Client / Source ID

EPA 6020A	1IF0081	1IF0081-BLK1	
		1IF0081-BS1	
		1ID1697-01	MW-15R
		1IF0081-MSD1	1ID1697-01
		1IF0081-PS1	1ID1697-01
		1ID1697-02	MW-19
		1ID1697-03	MW-20
		1ID1697-04	MW-21
		1ID1697-05	MW-24
		1ID1697-06	MW-37R
		1ID1697-07	MW-38R
		1ID1697-08	MW-39
		1ID1697-09	MW-43
		1ID1697-10	MW-13
		1ID1697-11	MW-22
		1ID1697-12	MW-11
		1ID1697-13	MW-23
		1ID1697-14	MW-36
		1ID1697-15	Duplicate
		1ID1697-16	MW-40
		1ID1697-17	MW-41
		1ID1697-18	MW-27
		1ID1697-19	MW-28
		1ID1697-20	MW-29
		1IF0081-BS1	
		1IF0081-MS1	1ID1697-01

Method	Batch	Laboratory ID	Client / Source ID

EPA 6020A	1IF1340	1IF1340-BLK1	

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1ID1697

EPA 6020A

1IF1340

1IF1340-BS1

1IF1340-MS1

1ID0938-06RE1

1IF1340-MSD1

1ID0938-06RE1

1IF1340-PS1

1ID0938-06RE1

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 1ID1138 - EPA 5030B - EPA 8260D										
Blank (1ID1138-BLK1)				Prepared: 04/21/25 00:00 Analyzed: 04/21/25 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							
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							

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CERTIFICATE OF ANALYSIS

1ID1697

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1138 - EPA 5030B - EPA 8260D										
Blank (1ID1138-BLK1)										
Prepared: 04/21/25 00:00 Analyzed: 04/21/25 12:36										
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	48.1		ug/L	50.2		95.8	57-134			
Surrogate: Dibromofluoromethane	48.1		ug/L	50.2		95.8	75-136			
Surrogate: 1,2-Dichloroethane-d4	42.2		ug/L	50.1		84.2	53-140			
Surrogate: 1,2-Dichloroethane-d4	42.2		ug/L	50.1		84.2	61-142			
Surrogate: Toluene-d8	47.6		ug/L	50.4		94.5	86-114			
Surrogate: Toluene-d8	47.6		ug/L	50.4		94.5	82-121			
Surrogate: 4-Bromofluorobenzene	47.8		ug/L	50.1		95.3	78-121			
Surrogate: 4-Bromofluorobenzene	47.8		ug/L	50.1		95.3	80-116			
LCS (1ID1138-BS1)										
Prepared: 04/21/25 00:00 Analyzed: 04/21/25 11:51										
Chloromethane	28.06	1.0	ug/L	30.3		92.5	63-155			
Vinyl Chloride	29.65	1.0	ug/L	30.2		98.0	70-154			
Bromomethane	29.37	1.0	ug/L	30.1		97.5	52-176			
Chloroethane	29.30	1.0	ug/L	30.3		96.6	72-148			
Trichlorofluoromethane	32.99	1.0	ug/L	30.3		109	70-152			
1,1-Dichloroethylene	56.43	1.0	ug/L	50.1		113	70-148			
Acetone	88.06	10.0	ug/L	100		88.1	43-172			
Methyl Iodide	125.1	1.0	ug/L	100		125	69-170			
Carbon Disulfide	103.7	1.0	ug/L	100		104	72-162			
Methylene Chloride	53.71	5.0	ug/L	50.1		107	68-142			
Acrylonitrile	49.73	5.0	ug/L	50.2		99.1	56-135			
trans-1,2-Dichloroethylene	56.65	1.0	ug/L	50.1		113	66-148			
1,1-Dichloroethane	54.22	1.0	ug/L	50.1		108	66-143			
Vinyl Acetate	169.2	5.0	ug/L	140		121	43-153			
cis-1,2-Dichloroethylene	51.50	1.0	ug/L	50.4		102	71-149			
2-Butanone (MEK)	90.72	10.0	ug/L	100		90.7	52-159			
Bromochloromethane	50.67	1.0	ug/L	50.4		101	69-143			
Chloroform	52.81	1.0	ug/L	50.1		105	69-144			
1,1,1-Trichloroethane	58.80	1.0	ug/L	50.1		117	62-129			
Carbon Tetrachloride	58.85	1.0	ug/L	50.1		117	63-141			
Benzene	54.26	1.0	ug/L	50.4		108	71-134			
1,2-Dichloroethane	56.69	1.0	ug/L	50.1		113	72-132			
Trichloroethylene	57.85	1.0	ug/L	50.1		115	71-135			

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CERTIFICATE OF ANALYSIS

1ID1697

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1138 - EPA 5030B - EPA 8260D										
LCS (1ID1138-BS1)										
Prepared: 04/21/25 00:00 Analyzed: 04/21/25 11:51										
1,2-Dichloropropane	54.86	1.0	ug/L	50.1		110	69-136			
Dibromomethane	50.75	1.0	ug/L	50.4		101	73-147			
Bromodichloromethane	58.97	1.0	ug/L	50.1		118	68-129			
cis-1,3-Dichloropropene	47.43	1.0	ug/L	50.1		94.7	65-134			
4-Methyl-2-pentanone (MIBK)	86.90	5.0	ug/L	100		86.9	58-147			
Toluene	55.31	1.0	ug/L	50.5		110	72-133			
trans-1,3-Dichloropropene	48.41	1.0	ug/L	50.1		96.7	67-130			
1,1,2-Trichloroethane	52.18	1.0	ug/L	50.1		104	69-135			
Tetrachloroethylene	51.33	1.0	ug/L	50.1		102	69-130			
2-Hexanone (MBK)	62.28	5.0	ug/L	100		62.3	55-144			
Dibromochloromethane	50.34	1.0	ug/L	50.1		101	73-127			
1,2-Dibromoethane	46.09	1.0	ug/L	50.2		91.8	67-132			
Chlorobenzene	48.30	1.0	ug/L	50.1		96.4	72-123			
1,1,1,2-Tetrachloroethane	49.30	1.0	ug/L	50.3		97.9	73-127			
Ethylbenzene	50.01	1.0	ug/L	50.2		99.7	71-127			
Xylenes, total	151.7	2.0	ug/L	151		100	74-127			
Styrene	46.78	1.0	ug/L	50.4		92.9	66-126			
Bromoform	49.74	1.0	ug/L	50.1		99.3	68-130			
1,2,3-Trichloropropane	46.78	1.0	ug/L	50.3		92.9	63-136			
trans-1,4-Dichloro-2-butene	79.33	5.0	ug/L	100		79.3	54-134			
1,1,2,2-Tetrachloroethane	39.59	1.0	ug/L	50.1		79.0	61-131			
1,4-Dichlorobenzene	42.99	1.0	ug/L	50.1		85.8	70-129			
1,2-Dichlorobenzene	45.28	1.0	ug/L	50.1		90.4	69-126			
1,2-Dibromo-3-chloropropane	35.27	5.0	ug/L	50.1		70.4	50-143			
Surrogate: Dibromofluoromethane	51.5		ug/L	50.2		103	57-134			
Surrogate: Dibromofluoromethane	51.5		ug/L	50.2		103	75-136			
Surrogate: 1,2-Dichloroethane-d4	46.7		ug/L	50.1		93.3	53-140			
Surrogate: 1,2-Dichloroethane-d4	46.7		ug/L	50.1		93.3	61-142			
Surrogate: Toluene-d8	53.2		ug/L	50.4		106	86-114			
Surrogate: Toluene-d8	53.2		ug/L	50.4		106	82-121			
Surrogate: 4-Bromofluorobenzene	53.8		ug/L	50.1		107	78-121			
Surrogate: 4-Bromofluorobenzene	53.8		ug/L	50.1		107	80-116			
LCS Dup (1ID1138-BS1)										
Prepared: 04/21/25 00:00 Analyzed: 04/21/25 13:31										
Chloromethane	29.14	1.0	ug/L	30.3		96.1	63-155	3.78	24	
Vinyl Chloride	30.58	1.0	ug/L	30.2		101	70-154	3.09	25	
Bromomethane	30.02	1.0	ug/L	30.1		99.7	52-176	2.19	27	
Chloroethane	31.86	1.0	ug/L	30.3		105	72-148	8.37	25	
Trichlorofluoromethane	33.92	1.0	ug/L	30.3		112	70-152	2.78	26	
1,1-Dichloroethylene	58.41	1.0	ug/L	50.1		117	70-148	3.45	24	
Acetone	87.01	10.0	ug/L	100		87.0	43-172	1.20	30	
Methyl Iodide	126.1	1.0	ug/L	100		126	69-170	0.780	30	
Carbon Disulfide	104.0	1.0	ug/L	100		104	72-162	0.212	24	
Methylene Chloride	52.71	5.0	ug/L	50.1		105	68-142	1.88	21	

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CERTIFICATE OF ANALYSIS

11D1697

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11D1138 - EPA 5030B - EPA 8260D										
LCS Dup (11D1138-BSD1)				Prepared: 04/21/25 00:00 Analyzed: 04/21/25 13:31						
Acrylonitrile	42.41	5.0	ug/L	50.2		84.5	56-135	15.9	16	
trans-1,2-Dichloroethylene	57.10	1.0	ug/L	50.1		114	66-148	0.791	27	
1,1-Dichloroethane	54.63	1.0	ug/L	50.1		109	66-143	0.753	24	
Vinyl Acetate	147.0	5.0	ug/L	140		105	43-153	14.0	30	
cis-1,2-Dichloroethylene	51.76	1.0	ug/L	50.4		103	71-149	0.504	26	
2-Butanone (MEK)	70.38	10.0	ug/L	100		70.4	52-159	25.3	27	
Bromochloromethane	45.48	1.0	ug/L	50.4		90.2	69-143	10.8	23	
Chloroform	51.56	1.0	ug/L	50.1		103	69-144	2.40	23	
1,1,1-Trichloroethane	58.26	1.0	ug/L	50.1		116	62-129	0.923	24	
Carbon Tetrachloride	57.97	1.0	ug/L	50.1		116	63-141	1.51	25	
Benzene	52.58	1.0	ug/L	50.4		104	71-134	3.14	24	
1,2-Dichloroethane	48.45	1.0	ug/L	50.1		96.7	72-132	15.7	24	
Trichloroethylene	56.67	1.0	ug/L	50.1		113	71-135	2.06	24	
1,2-Dichloropropane	51.74	1.0	ug/L	50.1		103	69-136	5.85	24	
Dibromomethane	44.38	1.0	ug/L	50.4		88.1	73-147	13.4	25	
Bromodichloromethane	53.46	1.0	ug/L	50.1		107	68-129	9.80	22	
cis-1,3-Dichloropropene	42.47	1.0	ug/L	50.1		84.8	65-134	11.0	23	
4-Methyl-2-pentanone (MIBK)	63.38	5.0	ug/L	100		63.4	58-147	31.3	27	R1
Toluene	53.55	1.0	ug/L	50.5		106	72-133	3.23	24	
trans-1,3-Dichloropropene	40.83	1.0	ug/L	50.1		81.5	67-130	17.0	24	
1,1,2-Trichloroethane	43.46	1.0	ug/L	50.1		86.8	69-135	18.2	23	
Tetrachloroethylene	51.41	1.0	ug/L	50.1		103	69-130	0.156	25	
2-Hexanone (MBK)	44.35	5.0	ug/L	100		44.4	55-144	33.6	25	Q3, R1
Dibromochloromethane	43.82	1.0	ug/L	50.1		87.5	73-127	13.8	22	
1,2-Dibromoethane	38.56	1.0	ug/L	50.2		76.8	67-132	17.8	24	
Chlorobenzene	47.06	1.0	ug/L	50.1		94.0	72-123	2.60	23	
1,1,1,2-Tetrachloroethane	45.92	1.0	ug/L	50.3		91.2	73-127	7.10	24	
Ethylbenzene	49.97	1.0	ug/L	50.2		99.6	71-127	0.0800	26	
Xylenes, total	151.8	2.0	ug/L	151		100	74-127	0.0791	25	
Styrene	44.94	1.0	ug/L	50.4		89.2	66-126	4.01	23	
Bromoform	40.93	1.0	ug/L	50.1		81.7	68-130	19.4	23	
1,2,3-Trichloropropane	37.47	1.0	ug/L	50.3		74.4	63-136	22.1	24	
trans-1,4-Dichloro-2-butene	61.90	5.0	ug/L	100		61.9	54-134	24.7	27	
1,1,2,2-Tetrachloroethane	32.63	1.0	ug/L	50.1		65.1	61-131	19.3	29	
1,4-Dichlorobenzene	41.96	1.0	ug/L	50.1		83.7	70-129	2.42	24	
1,2-Dichlorobenzene	41.97	1.0	ug/L	50.1		83.8	69-126	7.59	26	
1,2-Dibromo-3-chloropropane	22.14	5.0	ug/L	50.1		44.2	50-143	45.7	30	Q3, R1
Surrogate: Dibromofluoromethane	49.3		ug/L	50.2		98.2	57-134			
Surrogate: Dibromofluoromethane	49.3		ug/L	50.2		98.2	75-136			
Surrogate: 1,2-Dichloroethane-d4	42.6		ug/L	50.1		85.1	53-140			
Surrogate: 1,2-Dichloroethane-d4	42.6		ug/L	50.1		85.1	61-142			
Surrogate: Toluene-d8	51.2		ug/L	50.4		102	86-114			
Surrogate: Toluene-d8	51.2		ug/L	50.4		102	82-121			

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CERTIFICATE OF ANALYSIS

1ID1697

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1138 - EPA 5030B - EPA 8260D									
LCS Dup (1ID1138-BSD1)				Prepared: 04/21/25 00:00 Analyzed: 04/21/25 13:31					
Surrogate: 4-Bromofluorobenzene	50.6		ug/L	50.1		101 78-121			
Surrogate: 4-Bromofluorobenzene	50.6		ug/L	50.1		101 80-116			
Matrix Spike (1ID1138-MS1)				Source: 1ID1594-21 Prepared: 04/21/25 00:00 Analyzed: 04/21/25 23:03					
Chloromethane	285.5	10.0	ug/L	303	ND	94.2 61-152			
Vinyl Chloride	307.7	10.0	ug/L	302	ND	102 66-149			
Bromomethane	297.6	10.0	ug/L	301	ND	98.8 43-171			
Chloroethane	310.0	10.0	ug/L	303	ND	102 69-148			
Trichlorofluoromethane	351.3	10.0	ug/L	303	ND	116 62-163			
1,1-Dichloroethylene	581.0	10.0	ug/L	501	ND	116 70-148			
Acetone	949.7	100	ug/L	1000	ND	95.0 45-173			
Methyl Iodide	1240	10.0	ug/L	1000	ND	124 62-167			
Carbon Disulfide	1048	10.0	ug/L	1000	ND	105 71-163			
Methylene Chloride	552.3	50.0	ug/L	501	ND	110 69-140			
Acrylonitrile	517.3	50.0	ug/L	502	ND	103 38-147			
trans-1,2-Dichloroethylene	586.2	10.0	ug/L	501	ND	117 69-144			
1,1-Dichloroethane	568.0	10.0	ug/L	501	ND	113 70-138			
Vinyl Acetate	1502	50.0	ug/L	1400	ND	107 58-142			
cis-1,2-Dichloroethylene	539.4	10.0	ug/L	504	ND	107 68-151			
2-Butanone (MEK)	980.4	100	ug/L	1000	ND	98.0 50-160			
Bromochloromethane	536.9	10.0	ug/L	504	ND	107 65-143			
Chloroform	549.8	10.0	ug/L	501	ND	110 71-143			
1,1,1-Trichloroethane	627.8	10.0	ug/L	501	ND	125 63-133			
Carbon Tetrachloride	629.0	10.0	ug/L	501	ND	126 63-142			
Benzene	546.8	10.0	ug/L	504	ND	108 69-133			
1,2-Dichloroethane	558.2	10.0	ug/L	501	ND	111 63-138			
Trichloroethylene	584.2	10.0	ug/L	501	ND	117 71-133			
1,2-Dichloropropane	555.1	10.0	ug/L	501	ND	111 69-132			
Dibromomethane	510.8	10.0	ug/L	504	ND	101 70-147			
Bromodichloromethane	599.0	10.0	ug/L	501	ND	120 67-130			
cis-1,3-Dichloropropene	446.5	10.0	ug/L	501	ND	89.1 61-126			
4-Methyl-2-pentanone (MIBK)	864.0	50.0	ug/L	1000	ND	86.4 55-147			
Toluene	552.5	10.0	ug/L	505	ND	109 71-133			
trans-1,3-Dichloropropene	463.3	10.0	ug/L	501	ND	92.5 63-124			
1,1,2-Trichloroethane	528.5	10.0	ug/L	501	ND	106 69-133			
Tetrachloroethylene	517.2	10.0	ug/L	501	ND	103 70-124			
2-Hexanone (MBK)	594.5	50.0	ug/L	1000	ND	59.4 53-141			
Dibromochloromethane	499.5	10.0	ug/L	501	ND	99.8 74-122			
1,2-Dibromoethane	446.2	10.0	ug/L	502	ND	88.8 66-127			
Chlorobenzene	476.0	10.0	ug/L	501	ND	95.0 76-116			
1,1,1,2-Tetrachloroethane	491.2	10.0	ug/L	503	ND	97.6 77-121			
Ethylbenzene	499.2	10.0	ug/L	502	ND	99.5 73-124			
Xylenes, total	1529	20.0	ug/L	1510	ND	101 75-123			

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1ID1697

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1138 - EPA 5030B - EPA 8260D										
Matrix Spike (1ID1138-MS1) Source: 1ID1594-21 Prepared: 04/21/25 00:00 Analyzed: 04/21/25 23:03										
Styrene	465.7	10.0	ug/L	504	ND	92.5	70-120			
Bromoform	489.8	10.0	ug/L	501	ND	97.7	70-124			
1,2,3-Trichloropropane	471.3	10.0	ug/L	503	ND	93.6	62-135			
trans-1,4-Dichloro-2-butene	755.1	50.0	ug/L	1000	ND	75.5	50-120			
1,1,2,2-Tetrachloroethane	364.9	10.0	ug/L	501	ND	72.8	63-126			
1,4-Dichlorobenzene	408.9	10.0	ug/L	501	ND	81.6	72-119			
1,2-Dichlorobenzene	439.2	10.0	ug/L	501	ND	87.7	71-117			
1,2-Dibromo-3-chloropropane	319.4	50.0	ug/L	501	ND	63.7	49-134			
Surrogate: Dibromofluoromethane	564		ug/L	502		112	57-134			
Surrogate: Dibromofluoromethane	564		ug/L	502		112	75-136			
Surrogate: 1,2-Dichloroethane-d4	519		ug/L	501		104	53-140			
Surrogate: 1,2-Dichloroethane-d4	519		ug/L	501		104	61-142			
Surrogate: Toluene-d8	537		ug/L	504		107	86-114			
Surrogate: Toluene-d8	537		ug/L	504		107	82-121			
Surrogate: 4-Bromofluorobenzene	553		ug/L	501		110	78-121			
Surrogate: 4-Bromofluorobenzene	553		ug/L	501		110	80-116			
Matrix Spike Dup (1ID1138-MSD1) Source: 1ID1594-21 Prepared: 04/21/25 00:00 Analyzed: 04/21/25 23:25										
Chloromethane	284.9	10.0	ug/L	303	ND	94.0	61-152	0.210	26	
Vinyl Chloride	303.2	10.0	ug/L	302	ND	100	66-149	1.47	23	
Bromomethane	295.9	10.0	ug/L	301	ND	98.2	43-171	0.573	29	
Chloroethane	301.2	10.0	ug/L	303	ND	99.3	69-148	2.88	25	
Trichlorofluoromethane	340.2	10.0	ug/L	303	ND	112	62-163	3.21	25	
1,1-Dichloroethylene	588.4	10.0	ug/L	501	ND	117	70-148	1.27	22	
Acetone	1085	100	ug/L	1000	ND	108	45-173	13.3	30	
Methyl Iodide	1224	10.0	ug/L	1000	ND	122	62-167	1.32	24	
Carbon Disulfide	1036	10.0	ug/L	1000	ND	104	71-163	1.16	22	
Methylene Chloride	543.5	50.0	ug/L	501	ND	108	69-140	1.61	19	
Acrylonitrile	535.2	50.0	ug/L	502	ND	107	38-147	3.40	30	
trans-1,2-Dichloroethylene	577.7	10.0	ug/L	501	ND	115	69-144	1.46	22	
1,1-Dichloroethane	574.3	10.0	ug/L	501	ND	115	70-138	1.10	20	
Vinyl Acetate	1518	50.0	ug/L	1400	ND	108	58-142	1.07	24	
cis-1,2-Dichloroethylene	547.4	10.0	ug/L	504	ND	109	68-151	1.47	22	
2-Butanone (MEK)	999.3	100	ug/L	1000	ND	99.9	50-160	1.91	23	
Bromochloromethane	540.2	10.0	ug/L	504	ND	107	65-143	0.613	22	
Chloroform	543.7	10.0	ug/L	501	ND	109	71-143	1.12	21	
1,1,1-Trichloroethane	616.1	10.0	ug/L	501	ND	123	63-133	1.88	23	
Carbon Tetrachloride	621.9	10.0	ug/L	501	ND	124	63-142	1.14	22	
Benzene	521.7	10.0	ug/L	504	ND	103	69-133	4.70	18	
1,2-Dichloroethane	524.2	10.0	ug/L	501	ND	105	63-138	6.28	20	
Trichloroethylene	555.2	10.0	ug/L	501	ND	111	71-133	5.09	23	
1,2-Dichloropropane	526.1	10.0	ug/L	501	ND	105	69-132	5.36	20	
Dibromomethane	485.0	10.0	ug/L	504	ND	96.3	70-147	5.18	22	
Bromodichloromethane	569.5	10.0	ug/L	501	ND	114	67-130	5.05	21	

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1ID1697

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1138 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1ID1138-MSD1)	Source: 1ID1594-21			Prepared: 04/21/25 00:00 Analyzed: 04/21/25 23:25						
cis-1,3-Dichloropropene	445.3	10.0	ug/L	501	ND	88.9	61-126	0.269	21	
4-Methyl-2-pentanone (MIBK)	842.1	50.0	ug/L	1000	ND	84.2	55-147	2.57	23	
Toluene	523.7	10.0	ug/L	505	ND	104	71-133	5.35	19	
trans-1,3-Dichloropropene	450.4	10.0	ug/L	501	ND	89.9	63-124	2.82	21	
1,1,2-Trichloroethane	490.5	10.0	ug/L	501	ND	97.9	69-133	7.46	19	
Tetrachloroethylene	499.1	10.0	ug/L	501	ND	99.6	70-124	3.56	24	
2-Hexanone (MBK)	642.8	50.0	ug/L	1000	ND	64.3	53-141	7.81	24	
Dibromochloromethane	492.0	10.0	ug/L	501	ND	98.3	74-122	1.51	21	
1,2-Dibromoethane	441.6	10.0	ug/L	502	ND	87.9	66-127	1.04	23	
Chlorobenzene	461.9	10.0	ug/L	501	ND	92.2	76-116	3.01	21	
1,1,1,2-Tetrachloroethane	479.8	10.0	ug/L	503	ND	95.3	77-121	2.35	25	
Ethylbenzene	485.0	10.0	ug/L	502	ND	96.7	73-124	2.89	20	
Xylenes, total	1489	20.0	ug/L	1510	ND	98.6	75-123	2.62	20	
Styrene	450.5	10.0	ug/L	504	ND	89.4	70-120	3.32	23	
Bromoform	471.4	10.0	ug/L	501	ND	94.1	70-124	3.83	22	
1,2,3-Trichloropropane	465.6	10.0	ug/L	503	ND	92.5	62-135	1.22	28	
trans-1,4-Dichloro-2-butene	833.9	50.0	ug/L	1000	ND	83.4	50-120	9.92	26	
1,1,2,2-Tetrachloroethane	365.2	10.0	ug/L	501	ND	72.9	63-126	0.0822	24	
1,4-Dichlorobenzene	399.6	10.0	ug/L	501	ND	79.7	72-119	2.30	24	
1,2-Dichlorobenzene	434.2	10.0	ug/L	501	ND	86.7	71-117	1.14	24	
1,2-Dibromo-3-chloropropane	310.8	50.0	ug/L	501	ND	62.0	49-134	2.73	28	
Surrogate: Dibromofluoromethane	556		ug/L	502		111	57-134			
Surrogate: Dibromofluoromethane	556		ug/L	502		111	75-136			
Surrogate: 1,2-Dichloroethane-d4	527		ug/L	501		105	53-140			
Surrogate: 1,2-Dichloroethane-d4	527		ug/L	501		105	61-142			
Surrogate: Toluene-d8	528		ug/L	504		105	86-114			
Surrogate: Toluene-d8	528		ug/L	504		105	82-121			
Surrogate: 4-Bromofluorobenzene	540		ug/L	501		108	78-121			
Surrogate: 4-Bromofluorobenzene	540		ug/L	501		108	80-116			

Determination of Chlorinated Phenoxy Herbicides	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1076 - EPA 8151A - EPA 8151A										
Blank (1ID1076-BLK1)	Prepared: 04/21/25 12:14 Analyzed: 04/24/25 14:57									
2,4,5-T	<0.5	0.5	ug/L							
Surrogate: 2,5-Dichlorobenzoic Acid	1.64		ug/L	1.81		90.6	49-174			
LCS (1ID1076-BS1)	Prepared: 04/21/25 12:14 Analyzed: 04/24/25 16:58									
2,4,5-T	<0.5	0.5	ug/L	0.500		96.4	49-157			
Surrogate: 2,5-Dichlorobenzoic Acid	1.74		ug/L	1.81		96.5	49-174			
LCS Dup (1ID1076-BSD1)	Prepared: 04/21/25 12:14 Analyzed: 04/24/25 17:28									



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Determination of Chlorinated Phenoxy Herbicides	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1076 - EPA 8151A - EPA 8151A									
LCS Dup (1ID1076-BSD1)				Prepared: 04/21/25 12:14 Analyzed: 04/24/25 17:28					
2,4,5-T	0.53	0.5	ug/L	0.500		106 49-157	9.36	30	
Surrogate: 2,5-Dichlorobenzoic Acid	1.76		ug/L	1.81		97.3 49-174			
Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1239 - EPA 608 OC/PCB - EPA 8081									
Blank (1ID1239-BLK1)				Prepared: 04/23/25 11:53 Analyzed: 04/29/25 15:45					
Gamma-Chlordane	<0.05	0.05	ug/L						
Endosulfan I	<0.05	0.05	ug/L						
Surrogate: Tetrachloro-m-xylene	0.491		ug/L	0.600		81.9 45-111			
LCS (1ID1239-BS1)				Prepared: 04/23/25 11:53 Analyzed: 04/29/25 16:03					
Gamma-Chlordane	0.214	0.05	ug/L	0.250		85.7 63-116			
Endosulfan I	0.232	0.05	ug/L	0.250		92.6 64-134			
Surrogate: Tetrachloro-m-xylene	0.450		ug/L	0.600		75.1 45-111			
LCS Dup (1ID1239-BSD1)				Prepared: 04/23/25 11:53 Analyzed: 04/29/25 16:17					
Gamma-Chlordane	0.233	0.05	ug/L	0.250		93.2 63-116	8.35	30	
Endosulfan I	0.250	0.05	ug/L	0.250		99.9 64-134	7.59	30	
Surrogate: Tetrachloro-m-xylene	0.479		ug/L	0.600		79.8 45-111			
Reference (1ID1239-SRM1)				Prepared: 04/23/25 11:53 Analyzed: 04/30/25 07:16					
Gamma-Chlordane	0.277	0.05	ug/L	0.250		111 80-120			
Endosulfan I	0.259	0.05	ug/L	0.250		103 80-120			
Determination of Inorganic Anions	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IE0013 - General Prep HPLC/IC - 300.0									
Blank (1IE0013-BLK1)				Prepared: 04/30/25 00:00 Analyzed: 04/30/25 14:25					
Sulfate	<1.0	1.0	mg/L						
Blank (1IE0013-BLK2)				Prepared: 04/30/25 00:00 Analyzed: 04/30/25 19:29					
Sulfate	<1.0	1.0	mg/L						
LCS (1IE0013-BS1)				Prepared: 04/30/25 00:00 Analyzed: 04/30/25 15:01					
Sulfate	33.78	1.0	mg/L	33.9		99.5 90-110			
LCS Dup (1IE0013-BSD1)				Prepared: 04/30/25 00:00 Analyzed: 04/30/25 15:19					
Sulfate	33.71	1.0	mg/L	33.9		99.3 90-110	0.207	10	
Matrix Spike (1IE0013-MS1)		Source: 1ID1697-02		Prepared: 04/30/25 00:00 Analyzed: 04/30/25 22:12					

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Determination of Inorganic Anions	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IE0013 - General Prep HPLC/IC - 300.0										
Matrix Spike (1IE0013-MS1)	Source: 1ID1697-02			Prepared: 04/30/25 00:00 Analyzed: 04/30/25 22:12						
Sulfate	185.9	5.0	mg/L	170	13.32	102	80-120			
Matrix Spike Dup (1IE0013-MSD1)	Source: 1ID1697-02			Prepared: 04/30/25 00:00 Analyzed: 04/30/25 22:30						
Sulfate	190.4	5.0	mg/L	170	13.32	104	80-120	2.37	10	
Batch 1IE0095 - General Prep HPLC/IC - 300.0										
Blank (1IE0095-BLK1)	Prepared: 05/01/25 00:00 Analyzed: 05/01/25 10:03									
Sulfate	<1.0	1.0	mg/L							
LCS (1IE0095-BS1)	Prepared: 05/01/25 00:00 Analyzed: 05/01/25 10:39									
Sulfate	33.43	1.0	mg/L	33.9		98.5	90-110			
LCS Dup (1IE0095-BSD1)	Prepared: 05/01/25 00:00 Analyzed: 05/01/25 10:57									
Sulfate	33.71	1.0	mg/L	33.9		99.3	90-110	0.843	10	
Matrix Spike (1IE0095-MS1)	Source: 1ID1821-02			Prepared: 05/01/25 00:00 Analyzed: 05/01/25 12:28						
Sulfate	579.9	10.0	mg/L	339	239.9	100	80-120			
Matrix Spike Dup (1IE0095-MSD1)	Source: 1ID1821-02			Prepared: 05/01/25 00:00 Analyzed: 05/01/25 12:46						
Sulfate	581.3	10.0	mg/L	339	239.9	101	80-120	0.234	10	
Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IF0081 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1IF0081-BLK1)	Prepared: 06/02/25 16:38 Analyzed: 06/21/25 14:50									
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							
LCS (1IF0081-BS1)	Prepared: 06/02/25 16:38 Analyzed: 06/21/25 14:53									
Antimony, total	0.113	0.0010	mg/L	0.100		113	80-120			
Arsenic, total	0.104	0.0020	mg/L	0.100		104	80-120			
Barium, total	0.116	0.0010	mg/L	0.100		116	80-120			
Beryllium, total	0.118	0.0005	mg/L	0.100		118	80-120			

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Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IF0081 - EPA 3005A Total Recoverable Metals - EPA 6020A										
LCS (1IF0081-BS1) Prepared: 06/02/25 16:38 Analyzed: 06/21/25 14:53										
Cadmium, total	0.109	0.0002	mg/L	0.100		109	80-120			
Chromium, total	0.111	0.0010	mg/L	0.100		111	80-120			
Cobalt, total	0.119	0.0005	mg/L	0.100		119	80-120			
Copper, total	0.0937	0.0050	mg/L	0.100		93.7	80-120			
Lead, total	0.109	0.0010	mg/L	0.100		109	80-120			
Nickel, total	0.0959	0.0050	mg/L	0.100		95.9	80-120			
Selenium, total	0.1067	0.0020	mg/L	0.100		107	80-120			
Silver, total	0.114	0.0050	mg/L	0.100		114	80-120			
Thallium, total	0.115	0.0005	mg/L	0.100		115	80-120			
Vanadium, total	0.117	0.0020	mg/L	0.100		117	80-120			
Zinc, total	0.0956	0.0050	mg/L	0.100		95.6	80-120			
Matrix Spike (1IF0081-MS1) Source: 1ID1697-01 Prepared: 06/02/25 16:38 Analyzed: 06/23/25 13:00										
Antimony, total	0.135	0.0010	mg/L	0.100	ND	135	75-125			M1
Arsenic, total	0.136	0.0020	mg/L	0.100	0.0197	116	75-125			
Barium, total	0.788	0.0010	mg/L	0.100	0.662	126	75-125			M1
Beryllium, total	0.136	0.0005	mg/L	0.100	0.0002	136	75-125			M1
Cadmium, total	0.127	0.0002	mg/L	0.100	0.0003	127	75-125			M1
Chromium, total	0.134	0.0010	mg/L	0.100	0.0020	132	75-125			M1
Cobalt, total	0.135	0.0005	mg/L	0.100	0.0079	127	75-125			M1
Copper, total	0.109	0.0050	mg/L	0.100	0.0027	106	75-125			
Lead, total	0.126	0.0010	mg/L	0.100	0.0010	125	75-125			
Nickel, total	0.112	0.0050	mg/L	0.100	0.0065	105	75-125			
Selenium, total	0.1127	0.0020	mg/L	0.100	ND	113	75-125			
Silver, total	0.134	0.0050	mg/L	0.100	ND	134	75-125			M1
Thallium, total	0.130	0.0005	mg/L	0.100	ND	130	75-125			M1
Vanadium, total	0.146	0.0020	mg/L	0.100	0.0052	141	75-125			M1
Zinc, total	0.114	0.0050	mg/L	0.100	0.0128	102	75-125			
Matrix Spike Dup (1IF0081-MSD1) Source: 1ID1697-01 Prepared: 06/02/25 16:38 Analyzed: 06/21/25 15:00										
Antimony, total	0.106	0.0010	mg/L	0.100	ND	106	75-125	23.6	20	R1
Arsenic, total	0.117	0.0020	mg/L	0.100	0.0197	97.5	75-125	14.6	20	
Barium, total	0.777	0.0010	mg/L	0.100	0.662	115	75-125	1.40	20	
Beryllium, total	0.117	0.0005	mg/L	0.100	0.0002	117	75-125	14.8	20	
Cadmium, total	0.104	0.0002	mg/L	0.100	0.0003	104	75-125	20.2	20	R1
Chromium, total	0.112	0.0010	mg/L	0.100	0.0020	110	75-125	17.8	20	
Cobalt, total	0.117	0.0005	mg/L	0.100	0.0079	109	75-125	14.4	20	
Copper, total	0.0855	0.0050	mg/L	0.100	0.0027	82.8	75-125	24.0	20	R1
Lead, total	0.105	0.0010	mg/L	0.100	0.0010	104	75-125	18.1	20	
Nickel, total	0.0925	0.0050	mg/L	0.100	0.0065	86.1	75-125	18.6	20	
Selenium, total	0.0897	0.0020	mg/L	0.100	ND	89.7	75-125	22.8	20	R1
Silver, total	0.108	0.0050	mg/L	0.100	ND	108	75-125	21.2	20	R1
Thallium, total	0.109	0.0005	mg/L	0.100	ND	109	75-125	17.9	20	
Vanadium, total	0.125	0.0020	mg/L	0.100	0.0052	120	75-125	15.6	20	
Zinc, total	0.0981	0.0050	mg/L	0.100	0.0128	85.4	75-125	15.3	20	

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CERTIFICATE OF ANALYSIS

1ID1697

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IF0081 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Post Spike (1IF0081-PS1)		Source: 1ID1697-01		Prepared: 06/02/25 16:38 Analyzed: 06/21/25 15:02						
Antimony, total	0.0205		mg/L	0.0200	0.0002	102	80-120			
Arsenic, total	0.0383		mg/L	0.0200	0.0193	95.1	80-120			
Barium, total	0.677		mg/L	0.0200	0.649	142	80-120			M6
Beryllium, total	0.0239		mg/L	0.0200	0.0002	119	80-120			
Cadmium, total	0.0211		mg/L	0.0200	0.0003	104	80-120			
Chromium, total	0.0227		mg/L	0.0200	0.0019	104	80-120			
Cobalt, total	0.0277		mg/L	0.0200	0.0078	99.8	80-120			
Copper, total	0.0192		mg/L	0.0200	0.0027	82.7	80-120			
Lead, total	0.0210		mg/L	0.0200	0.0010	99.9	80-120			
Nickel, total	0.0234		mg/L	0.0200	0.0063	85.1	80-120			
Selenium, total	0.0199		mg/L	0.0200	0.0002	98.7	80-120			
Silver, total	0.0210		mg/L	0.0200	0.00004	105	80-120			
Thallium, total	0.0204		mg/L	0.0200	0.00003	102	80-120			
Vanadium, total	0.0313		mg/L	0.0200	0.0051	131	80-120			M1
Zinc, total	0.0301		mg/L	0.0200	0.0125	87.8	80-120			
Batch 1IF1340 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1IF1340-BLK1)		Prepared: 06/25/25 09:33 Analyzed: 06/25/25 22:34								
Cadmium, total	<0.0002	0.0002	mg/L							
Copper, total	<0.0050	0.0050	mg/L							
LCS (1IF1340-BS1)		Prepared: 06/25/25 09:33 Analyzed: 06/25/25 22:42								
Cadmium, total	0.0980	0.0002	mg/L	0.100		98.0	80-120			
Copper, total	0.0934	0.0050	mg/L	0.100		93.4	80-120			
Matrix Spike (1IF1340-MS1)		Source: 1ID0938-06RE1		Prepared: 06/25/25 09:33 Analyzed: 06/25/25 22:49						
Cadmium, total	0.0982	0.0002	mg/L	0.100	0.0002	97.9	75-125			
Copper, total	0.0893	0.0050	mg/L	0.100	0.0027	86.7	75-125			
Matrix Spike Dup (1IF1340-MSD1)		Source: 1ID0938-06RE1		Prepared: 06/25/25 09:33 Analyzed: 06/25/25 22:52						
Cadmium, total	0.102	0.0002	mg/L	0.100	0.0002	101	75-125	3.42	20	
Copper, total	0.0907	0.0050	mg/L	0.100	0.0027	88.0	75-125	1.51	20	
Post Spike (1IF1340-PS1)		Source: 1ID0938-06RE1		Prepared: 06/25/25 09:33 Analyzed: 06/25/25 22:54						
Cadmium, total	0.0191		mg/L	0.0200	0.0002	94.5	80-120			
Copper, total	0.0194		mg/L	0.0200	0.0027	83.7	80-120			

Definitions

M1:	Matrix spike recovery is above acceptance limits.
M6:	Matrix spike recovery is outside of acceptance limits. The analyte concentration is greater than 4X the spiking level.
Q3:	LCS recovery is below acceptance limits. The reported value is estimated.
R1:	Duplicate RPD is outside acceptance criteria.
RL:	Reporting Limit
RPD:	Relative Percent Difference



Microbac Laboratories, Inc., Newton
CERTIFICATE OF ANALYSIS
1ID1697

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 0.9°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 16:38



600 East
Newton, IA
641-792-8



1 I D 1 6 9 7

HLW Engineering
PM: Heather Murphy

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SITE INFORMATION

Sampler: JA14

Project: Cass Co SLF

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

Brandi Mericle
Cass County Landfill
65928 Jackson Rd
Atlantic, IA 50022

LAB USE ONLY

Work Order 1ID1697

Temperature 0.9

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-15R	Aqueous	GRAB	<u>4/16/25</u>	<u>11:52</u>	<u>7</u>	Indfill-app1-voc-group	Indfil-app1-metals-6020	<u>01</u>
-001	MW-12	Aqueous	GRAB	<u>1/1</u>			Indfill-app1-voc-group	Indfil-app1-metals-6020	
-001	MW-19	Aqueous	GRAB	<u>4/16/25</u>	<u>14:39</u>	<u>9</u>	8081-118 Indfill-app1-metals-6020	Indfill-app1-voc-group so4-300.0	<u>02</u>
-001	MW-20	Aqueous	GRAB	<u>4/16/25</u>	<u>14:54</u>	<u>10</u>	8081-118 Indfill-app1-voc-group so4-300.0	8151-120 Indfil-app1-metals-6020	<u>03</u>
-001	MW-21	Aqueous	GRAB	<u>4/16/25</u>	<u>13:44</u>	<u>8</u>	Indfill-app1-voc-group so4-300.0	Indfil-app1-metals-6020	<u>04</u>
-001	MW-24	Aqueous	GRAB	<u>4/16/25</u>	<u>15:10</u>	<u>7</u>	Indfill-app1-voc-group	Indfil-app1-metals-6020	<u>05</u>
-001	MW-37R	Aqueous	GRAB	<u>4/16/25</u>	<u>14:10</u>	<u>7</u>	Indfill-app1-voc-group	Indfil-app1-metals-6020	<u>06</u>

Relinquished By J. L. O'Neil

Date/Time 4/17/25

Relinquished By

Date/Time

Received for Lab By Heather Murphy

Date/Time 4/17/25 10:19

Remarks:

Received By

Date/Time

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HLW Engineering
PM: Heather Murphy

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SITE INFORMATION

Sampler: LeH
Project: Cass Co SLF

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Brandi Mericic
Cass County Landfill
65928 Jackson Rd
Atlantic, IA 50022

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order 11D1697
Temperature 0.9
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-38R	Aqueous	GRAB	<u>4/16/25</u>	<u>13:26</u>	<u>7</u>	Indfill-app1-voc-group	Indfill-app1-metals-6020	<u>07</u>
-001	MW-39	Aqueous	GRAB	<u>4/16/25</u>	<u>16:06</u>	<u>7</u>	Indfill-app1-voc-group	Indfill-app1-metals-6020	<u>08</u>
-001	MW-43	Aqueous	GRAB	<u>4/16/25</u>	<u>13:05</u>	<u>7</u>	Indfill-app1-voc-group	Indfill-app1-metals-6020	<u>09</u>
-001	UD-0	Aqueous	GRAB	<u>/ /</u>			Indfill-app1-voc-group	Indfill-app1-metals-6020	
-001	UD-1	Aqueous	GRAB	<u>/ /</u>			Indfill-app1-voc-group	Indfill-app1-metals-6020	
-001	MW-13	Aqueous	GRAB	<u>4/16/25</u>	<u>12:51</u>	<u>7</u>	Indfill-app1-voc-group	Indfill-app1-metals-6020	<u>10</u>
-001	MW-22	Aqueous	GRAB	<u>4/16/25</u>	<u>17:20</u>	<u>7</u>	Indfill-app1-voc-group	Indfill-app1-metals-6020	<u>11</u>

LeH 4/17/25
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HLW Engineering
PM: Heather Murphy

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SITE INFORMATION

Sampler: LeH
Project: Cass Co SLF

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Brandi Mericle
Cass County Landfill
65928 Jackson Rd
Atlantic, IA 50022

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order IED1697

Temperature 0.9

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-11	Aqueous	GRAB	<u>4/16/25</u>	<u>12:40</u>	<u>7</u>	Indfill-app1-voc-group	Indfill-app1-metals-6020	<u>12</u>
-001	MW-23	Aqueous	GRAB	<u>4/16/25</u>	<u>13:56</u>	<u>7</u>	Indfill-app1-voc-group	Indfill-app1-metals-6020	<u>13</u>
-001	MW-36	Aqueous	GRAB	<u>4/16/25</u>	<u>15:44</u>	<u>7</u>	Indfill-app1-voc-group	Indfill-app1-metals-6020	<u>14</u>
-001	Duplicate	Aqueous	GRAB	<u>4/16/25</u>	<u>12:40</u>	<u>1</u>	Indfill-app1-metals-6020		<u>15</u>
-001	MW-40	Aqueous	GRAB	<u>4/16/25</u>	<u>12:17</u>	<u>1</u>	Indfill-app1-metals-6020		<u>16</u>
-001	MW-41	Aqueous	GRAB	<u>4/16/25</u>	<u>12:12</u>	<u>1</u>	Indfill-app1-metals-6020		<u>17</u>
-001	MW-42	Aqueous	GRAB	<u>1/1</u>			Indfill-app1-metals-6020		

JOHNS 4/17/25
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Schubert 4/17/25 10:15
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HLW Engineering
PM: Heather Murphy

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SITE INFORMATION

Sampler: JEH
Project: Cass Co SLF

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Brandi Mericle
Cass County Landfill
65928 Jackson Rd
Atlantic, IA 50022

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order 1ID1697

Temperature 0.9

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-27	Aqueous	GRAB	<u>4/16/25</u>	<u>16:55</u>	<u>1</u>	Indfil-app1-metals-6020	<u>18</u>
-001	MW-28	Aqueous	GRAB	<u>4/16/25</u>	<u>17:03</u>	<u>1</u>	Indfil-app1-metals-6020	<u>19</u>
-001	MW-29	Aqueous	GRAB	<u>4/16/25</u>	<u>16:23</u>	<u>1</u>	Indfil-app1-metals-6020	<u>20</u>
-001	MW-32	Aqueous	GRAB	<u>1/1</u>			Indfil-app1-metals-6020	

Relinquished By [Signature]

Date/Time 4/17/25

Relinquished By [Signature]

Date/Time 4/17/25 10:15

Received By

Date/Time

Received for Lab By

Date/Time

Remarks:

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IG1858

Project Description

Cass Co SLF

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Thursday, July 24, 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

1IG1858

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: Cass Co SLF

Project / PO Number: N/A
Received: 07/16/2025
Reported: 07/24/2025

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-11	1IG1858-01	Aqueous	GRAB		07/14/25 00:00	07/16/25 09:37
MW-15R	1IG1858-02	Aqueous	GRAB		07/14/25 00:00	07/16/25 09:37



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IG1858

Analytical Testing Parameters

Client Sample ID:	MW-11	Collected By:	Unknown
Sample Matrix:	Aqueous	Collection Date:	07/14/2025
Lab Sample ID:	1IG1858-01		

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Copper, total	0.0415	0.0050	mg/L		07/22/25 1525	07/23/25 1726	RVV
Vanadium, total	<0.0020	0.0020	mg/L		07/22/25 1525	07/23/25 1726	RVV

Client Sample ID:	MW-15R	Collected By:	Unknown
Sample Matrix:	Aqueous	Collection Date:	07/14/2025
Lab Sample ID:	1IG1858-02		

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		07/22/25 1525	07/23/25 1734	RVV
Arsenic, total	0.0077	0.0020	mg/L		07/22/25 1525	07/23/25 1734	RVV
Barium, total	0.602	0.0010	mg/L		07/22/25 1525	07/23/25 1734	RVV
Beryllium, total	<0.0005	0.0005	mg/L		07/22/25 1525	07/23/25 1734	RVV
Cadmium, total	<0.0002	0.0002	mg/L		07/22/25 1525	07/23/25 1734	RVV
Chromium, total	0.0016	0.0010	mg/L		07/22/25 1525	07/23/25 1734	RVV
Cobalt, total	0.0026	0.0005	mg/L		07/22/25 1525	07/23/25 1734	RVV
Copper, total	<0.0050	0.0050	mg/L		07/22/25 1525	07/23/25 1734	RVV
Lead, total	<0.0010	0.0010	mg/L		07/22/25 1525	07/23/25 1734	RVV
Nickel, total	<0.0050	0.0050	mg/L		07/22/25 1525	07/23/25 1734	RVV
Selenium, total	<0.0020	0.0020	mg/L		07/22/25 1525	07/23/25 1734	RVV
Silver, total	<0.0050	0.0050	mg/L		07/22/25 1525	07/23/25 1734	RVV
Thallium, total	<0.0005	0.0005	mg/L		07/22/25 1525	07/23/25 1734	RVV
Vanadium, total	<0.0020	0.0020	mg/L		07/22/25 1525	07/23/25 1734	RVV
Zinc, total	0.0117	0.0050	mg/L		07/22/25 1525	07/23/25 1734	RVV

Microbac Laboratories, Inc., Newton

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IG1858

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1IG1243	1IG1243-BLK1	
		1IG1243-BS1	
		1IG1243-MS1	1IG1856-01
		1IG1243-MSD1	1IG1856-01
		1IG1243-PS1	1IG1856-01
		1IG1858-01	MW-11
		1IG1858-02	MW-15R

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 1IG1243 - EPA 3005A Total Recoverable Metals - EPA 6020A										

Blank (1IG1243-BLK1)

Prepared: 07/22/25 15:25 Analyzed: 07/23/25 16:55

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

LCS (1IG1243-BS1)

Prepared: 07/22/25 15:25 Analyzed: 07/23/25 16:57

Antimony, total	0.107	0.0010	mg/L	0.100	107	80-120
Arsenic, total	0.102	0.0020	mg/L	0.100	102	80-120
Barium, total	0.115	0.0010	mg/L	0.100	115	80-120
Beryllium, total	0.0982	0.0005	mg/L	0.100	98.2	80-120
Cadmium, total	0.103	0.0002	mg/L	0.100	103	80-120
Chromium, total	0.111	0.0010	mg/L	0.100	111	80-120
Cobalt, total	0.111	0.0005	mg/L	0.100	111	80-120
Copper, total	0.104	0.0050	mg/L	0.100	104	80-120
Lead, total	0.108	0.0010	mg/L	0.100	108	80-120
Nickel, total	0.104	0.0050	mg/L	0.100	104	80-120
Selenium, total	0.1027	0.0020	mg/L	0.100	103	80-120
Silver, total	0.110	0.0050	mg/L	0.100	110	80-120
Thallium, total	0.110	0.0005	mg/L	0.100	110	80-120

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CERTIFICATE OF ANALYSIS

1IG1858

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG1243 - EPA 3005A Total Recoverable Metals - EPA 6020A									
LCS (1IG1243-BS1) Prepared: 07/22/25 15:25 Analyzed: 07/23/25 16:57									
Vanadium, total	0.115	0.0020	mg/L	0.100		115	80-120		
Zinc, total	0.109	0.0050	mg/L	0.100		109	80-120		
Matrix Spike (1IG1243-MS1) Source: 1IG1856-01 Prepared: 07/22/25 15:25 Analyzed: 07/23/25 17:12									
Antimony, total	0.114	0.0010	mg/L	0.100	ND	114	75-125		
Arsenic, total	0.105	0.0020	mg/L	0.100	ND	105	75-125		
Barium, total	0.395	0.0010	mg/L	0.100	0.264	130	75-125		M1
Beryllium, total	0.104	0.0005	mg/L	0.100	ND	104	75-125		
Cadmium, total	0.105	0.0002	mg/L	0.100	ND	105	75-125		
Chromium, total	0.110	0.0010	mg/L	0.100	0.0010	109	75-125		
Cobalt, total	0.103	0.0005	mg/L	0.100	0.00009	103	75-125		
Copper, total	0.0984	0.0050	mg/L	0.100	ND	98.4	75-125		
Lead, total	0.107	0.0010	mg/L	0.100	ND	107	75-125		
Nickel, total	0.101	0.0050	mg/L	0.100	0.0010	99.9	75-125		
Selenium, total	0.1056	0.0020	mg/L	0.100	ND	106	75-125		
Silver, total	0.111	0.0050	mg/L	0.100	ND	111	75-125		
Thallium, total	0.110	0.0005	mg/L	0.100	ND	110	75-125		
Vanadium, total	0.117	0.0020	mg/L	0.100	ND	117	75-125		
Zinc, total	0.106	0.0050	mg/L	0.100	ND	106	75-125		
Matrix Spike Dup (1IG1243-MSD1) Source: 1IG1856-01 Prepared: 07/22/25 15:25 Analyzed: 07/23/25 17:14									
Antimony, total	0.111	0.0010	mg/L	0.100	ND	111	75-125	2.25	20
Arsenic, total	0.103	0.0020	mg/L	0.100	ND	103	75-125	2.02	20
Barium, total	0.387	0.0010	mg/L	0.100	0.264	122	75-125	2.14	20
Beryllium, total	0.105	0.0005	mg/L	0.100	ND	105	75-125	0.268	20
Cadmium, total	0.104	0.0002	mg/L	0.100	ND	104	75-125	1.53	20
Chromium, total	0.112	0.0010	mg/L	0.100	0.0010	111	75-125	1.98	20
Cobalt, total	0.106	0.0005	mg/L	0.100	0.00009	106	75-125	2.55	20
Copper, total	0.0973	0.0050	mg/L	0.100	ND	97.3	75-125	1.05	20
Lead, total	0.107	0.0010	mg/L	0.100	ND	107	75-125	0.165	20
Nickel, total	0.100	0.0050	mg/L	0.100	0.0010	99.4	75-125	0.559	20
Selenium, total	0.1026	0.0020	mg/L	0.100	ND	103	75-125	2.92	20
Silver, total	0.112	0.0050	mg/L	0.100	ND	112	75-125	0.829	20
Thallium, total	0.111	0.0005	mg/L	0.100	ND	111	75-125	0.157	20
Vanadium, total	0.117	0.0020	mg/L	0.100	ND	117	75-125	0.505	20
Zinc, total	0.105	0.0050	mg/L	0.100	ND	105	75-125	0.855	20
Post Spike (1IG1243-PS1) Source: 1IG1856-01 Prepared: 07/22/25 15:25 Analyzed: 07/23/25 17:17									
Antimony, total	0.0200		mg/L	0.0200	0.0004	98.1	80-120		
Arsenic, total	0.0196		mg/L	0.0200	0.000006	97.8	80-120		
Barium, total	0.276		mg/L	0.0200	0.264	58.7	80-120		M2
Beryllium, total	0.0196		mg/L	0.0200	0.000001	97.8	80-120		
Cadmium, total	0.0196		mg/L	0.0200	0.000007	97.8	80-120		
Chromium, total	0.0211		mg/L	0.0200	0.0010	101	80-120		
Cobalt, total	0.0194		mg/L	0.0200	0.00009	96.3	80-120		
Copper, total	0.0192		mg/L	0.0200	0.0007	92.6	80-120		

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CERTIFICATE OF ANALYSIS

1IG1858

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG1243 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Post Spike (1IG1243-PS1) Source: 1IG1856-01 Prepared: 07/22/25 15:25 Analyzed: 07/23/25 17:17										
Lead, total	0.0197		mg/L	0.0200	0.00004	98.3	80-120			
Nickel, total	0.0200		mg/L	0.0200	0.0010	95.1	80-120			
Selenium, total	0.0199		mg/L	0.0200	0.0003	97.9	80-120			
Silver, total	0.0209		mg/L	0.0200	0.00002	104	80-120			
Thallium, total	0.0199		mg/L	0.0200	0.000001	99.7	80-120			
Vanadium, total	0.0200		mg/L	0.0200	-0.00005	99.9	80-120			
Zinc, total	0.0217		mg/L	0.0200	0.0022	97.5	80-120			

Definitions

M1:	Matrix spike recovery is above acceptance limits.
M2:	Matrix spike recovery is below 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
07/24/25 14:59

CHAIN OF CUSTODY RECORD

Keystone

LABORATORIES, INC.

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1 I G 1 8 5 8

HLW Engineering
PM: Heather Murphy

5 E VanBuren St
Interville, IA 52544
Phone: 641-437-7023
Fax: 641-437-7040

PAGE 1 OF 1

Page 7 of 7

PRINT OR TYPE INFORMATION BELOW

SAMPLER: _____
SITE NAME: CASS CO SLF
ADDRESS: _____
CITY/ST/ZIP: _____
PHONE: _____

REPORT TO:

NAME: TODD WHIPPLE
COMPANY NAME: HLW ENGINEERING
ADDRESS: PO BOX 314
CITY/ST/ZIP: STORY CITY, IA 50240
PHONE: 515-733-4144
FAX: 515-733-4146

BILL TO:

NAME: STEVE GREEN
COMPANY NAME: CASS CO SLF
ADDRESS: 65928 JACKSON RD
CITY/ST/ZIP: ATLANTIC, IA 50022
PHONE: _____

Keystone Quote No: _____
(If Applicable)

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED										LAB USE ONLY	
							Cu, TOTAL	V, TOTAL	APPROX METALS								LABORATORY WORK ORDER NO.	LABORATORY SAMPLE NUMBER
MW 11				1	WATER	G	X	X									1IG1858	01
MW 1512				1	WATER	G			X									02
~~MW 40~~				~~1~~	~~WATER~~	~~G~~			~~X~~									

Relinquished by: (Signature) 	Date <u>7/16/25</u>	Received by: (Signature) 	Date <u>7-16-25</u>	Turn-Around: ☒ Standard ☐ Rush
	Time		Time <u>9:37</u>	
Relinquished by: (Signature)	Date	Received for Lab by: (Signature) 	Date	Remarks:
	Time		Time	

Original - Lab Copy

• Yellow - Sampler Copy

FORM: CCR 7-97



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IJ2324

Project Description

Cass Co SLF

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Wednesday, November 12, 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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CERTIFICATE OF ANALYSIS

1IJ2324

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: Cass Co SLF

Project / PO Number: N/A
Received: 10/28/2025
Reported: 11/12/2025

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-15R	1IJ2324-01	Aqueous	GRAB		10/27/25 08:06	10/28/25 10:38
MW-19	1IJ2324-02	Aqueous	GRAB		10/27/25 10:38	10/28/25 10:38
MW-20	1IJ2324-03	Aqueous	GRAB		10/27/25 10:47	10/28/25 10:38
MW-21	1IJ2324-04	Aqueous	GRAB		10/27/25 09:52	10/28/25 10:38
MW-24	1IJ2324-05	Aqueous	GRAB		10/27/25 11:00	10/28/25 10:38
MW-37R	1IJ2324-06	Aqueous	GRAB		10/27/25 13:22	10/28/25 10:38
MW-38R	1IJ2324-07	Aqueous	GRAB		10/27/25 09:36	10/28/25 10:38
MW-39	1IJ2324-08	Aqueous	GRAB		10/27/25 11:44	10/28/25 10:38
MW-43	1IJ2324-09	Aqueous	GRAB		10/27/25 09:20	10/28/25 10:38
MW-13	1IJ2324-10	Aqueous	GRAB		10/27/25 09:05	10/28/25 10:38
MW-22	1IJ2324-11	Aqueous	GRAB		10/27/25 12:44	10/28/25 10:38
MW-11	1IJ2324-12	Aqueous	GRAB		10/27/25 08:55	10/28/25 10:38
MW-23	1IJ2324-13	Aqueous	GRAB		10/27/25 10:03	10/28/25 10:38
MW-36	1IJ2324-14	Aqueous	GRAB		10/27/25 11:28	10/28/25 10:38
Duplicate	1IJ2324-15	Aqueous	GRAB		10/27/25 08:25	10/28/25 10:38
MW-40	1IJ2324-16	Aqueous	GRAB		10/27/25 08:25	10/28/25 10:38
MW-41	1IJ2324-17	Aqueous	GRAB		10/27/25 08:27	10/28/25 10:38
MW-27	1IJ2324-18	Aqueous	GRAB		10/27/25 12:20	10/28/25 10:38
MW- 28	1IJ2324-19	Aqueous	GRAB		10/27/25 12:25	10/28/25 10:38
MW-29	1IJ2324-20	Aqueous	GRAB		10/27/25 12:07	10/28/25 10:38



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IJ2324

Analytical Testing Parameters

Client Sample ID: MW-15R
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-01

Collected By: JGH
Collection Date: 10/27/2025 8:06

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Bromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Chloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Acetone	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Chloroform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Benzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Dibromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Toluene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Xylenes, total	<2.0	2.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Styrene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-15R
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-01

Collected By: JGH
Collection Date: 10/27/2025 8:06

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Bromoform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1346	RAF
Surrogate: Dibromofluoromethane	102	Limit: 57-128	% Rec		10/30/25 0000	10/30/25 1346	RAF
Surrogate: Dibromofluoromethane	102	Limit: 75-136	% Rec		10/30/25 0000	10/30/25 1346	RAF
Surrogate: 1,2-Dichloroethane-d4	103	Limit: 49-135	% Rec		10/30/25 0000	10/30/25 1346	RAF
Surrogate: 1,2-Dichloroethane-d4	103	Limit: 61-142	% Rec		10/30/25 0000	10/30/25 1346	RAF
Surrogate: Toluene-d8	106	Limit: 82-116	% Rec		10/30/25 0000	10/30/25 1346	RAF
Surrogate: Toluene-d8	106	Limit: 82-121	% Rec		10/30/25 0000	10/30/25 1346	RAF
Surrogate: 4-Bromofluorobenzene	90.4	Limit: 80-116	% Rec		10/30/25 0000	10/30/25 1346	RAF
Surrogate: 4-Bromofluorobenzene	90.4	Limit: 77-114	% Rec		10/30/25 0000	10/30/25 1346	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1803	RVV
Arsenic	0.0035	0.0020	mg/L		10/29/25 1522	10/30/25 1803	RVV
Barium	0.321	0.0010	mg/L		10/29/25 1522	10/30/25 1803	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1803	RVV
Cadmium	0.0003	0.0002	mg/L		10/29/25 1522	10/30/25 1803	RVV
Chromium	0.0016	0.0010	mg/L		10/29/25 1522	10/30/25 1803	RVV
Cobalt	0.0021	0.0005	mg/L		10/29/25 1522	10/30/25 1803	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1803	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1803	RVV
Nickel	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1803	RVV
Selenium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1803	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1803	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1803	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1803	RVV
Zinc	0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1803	RVV

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-19
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-02

Collected By: JGH
Collection Date: 10/27/2025 10:38

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Bromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Chloroethane	1.2	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Acetone	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Carbon Disulfide	3.4	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Chloroform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Benzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Dibromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Toluene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Chlorobenzene	1.2	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Xylenes, total	<2.0	2.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Styrene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Bromoform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-19
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-02

Collected By: JGH
Collection Date: 10/27/2025 10:38

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1409	RAF
Surrogate: Dibromofluoromethane	102	Limit: 75-136	% Rec		10/30/25 0000	10/30/25 1409	RAF
Surrogate: Dibromofluoromethane	102	Limit: 57-128	% Rec		10/30/25 0000	10/30/25 1409	RAF
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 49-135	% Rec		10/30/25 0000	10/30/25 1409	RAF
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 61-142	% Rec		10/30/25 0000	10/30/25 1409	RAF
Surrogate: Toluene-d8	105	Limit: 82-121	% Rec		10/30/25 0000	10/30/25 1409	RAF
Surrogate: Toluene-d8	105	Limit: 82-116	% Rec		10/30/25 0000	10/30/25 1409	RAF
Surrogate: 4-Bromofluorobenzene	91.3	Limit: 77-114	% Rec		10/30/25 0000	10/30/25 1409	RAF
Surrogate: 4-Bromofluorobenzene	91.3	Limit: 80-116	% Rec		10/30/25 0000	10/30/25 1409	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1813	RVV
Arsenic	0.0035	0.0020	mg/L		10/29/25 1522	10/30/25 1813	RVV
Barium	1.04	0.0010	mg/L		10/29/25 1522	10/30/25 1813	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1813	RVV
Cadmium	<0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1813	RVV
Chromium	0.0013	0.0010	mg/L		10/29/25 1522	10/30/25 1813	RVV
Cobalt	0.0256	0.0005	mg/L		10/29/25 1522	10/30/25 1813	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1813	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1813	RVV
Nickel	0.0579	0.0050	mg/L		10/29/25 1522	10/30/25 1813	RVV
Selenium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1813	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1813	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1813	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1813	RVV
Zinc	0.0141	0.0050	mg/L		10/29/25 1522	10/30/25 1813	RVV

Determination of Conventional Chemistry Parameters	Result	RL	Units	Note	Prepared	Analyzed	Analyst
SM 4500-S2- D-2011							
Sulfide, total	<0.10	0.10	mg/L		10/31/25 1242	10/31/25 1622	AKK



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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-20
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-03

Collected By: JGH
Collection Date: 10/27/2025 10:47

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Bromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Chloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Acetone	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Carbon Disulfide	12.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Chloroform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Benzene	2.2	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Dibromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Toluene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Chlorobenzene	3.1	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Xylenes, total	<2.0	2.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Styrene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Bromoform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-20
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-03

Collected By: JGH
Collection Date: 10/27/2025 10:47

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
1,4-Dichlorobenzene	2.4	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1432	RAF
Surrogate: Dibromofluoromethane	101	Limit: 75-136	% Rec		10/30/25 0000	10/30/25 1432	RAF
Surrogate: Dibromofluoromethane	101	Limit: 57-128	% Rec		10/30/25 0000	10/30/25 1432	RAF
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 49-135	% Rec		10/30/25 0000	10/30/25 1432	RAF
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 61-142	% Rec		10/30/25 0000	10/30/25 1432	RAF
Surrogate: Toluene-d8	105	Limit: 82-121	% Rec		10/30/25 0000	10/30/25 1432	RAF
Surrogate: Toluene-d8	105	Limit: 82-116	% Rec		10/30/25 0000	10/30/25 1432	RAF
Surrogate: 4-Bromofluorobenzene	90.6	Limit: 80-116	% Rec		10/30/25 0000	10/30/25 1432	RAF
Surrogate: 4-Bromofluorobenzene	90.6	Limit: 77-114	% Rec		10/30/25 0000	10/30/25 1432	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1815	RVV
Arsenic	0.0860	0.0020	mg/L		10/29/25 1522	10/30/25 1815	RVV
Barium	2.06	0.0100	mg/L		10/29/25 1522	10/31/25 1000	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1815	RVV
Cadmium	<0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1815	RVV
Chromium	0.0017	0.0010	mg/L		10/29/25 1522	10/30/25 1815	RVV
Cobalt	0.0067	0.0005	mg/L		10/29/25 1522	10/30/25 1815	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1815	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1815	RVV
Nickel	0.0280	0.0050	mg/L		10/29/25 1522	10/30/25 1815	RVV
Selenium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1815	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1815	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1815	RVV
Vanadium	0.0025	0.0020	mg/L		10/29/25 1522	10/30/25 1815	RVV
Zinc	0.0112	0.0050	mg/L		10/29/25 1522	10/30/25 1815	RVV

Determination of Conventional Chemistry Parameters	Result	RL	Units	Note	Prepared	Analyzed	Analyst
SM 4500-S2- D-2011							
Sulfide, total	<0.10	0.10	mg/L		10/31/25 1242	10/31/25 1622	AKK



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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-21
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-04

Collected By: JGH
Collection Date: 10/27/2025 9:52

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Bromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Chloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Acetone	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Carbon Disulfide	4.2	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Chloroform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Benzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Dibromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Toluene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Xylenes, total	<2.0	2.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Styrene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Bromoform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-21
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-04

Collected By: JGH
Collection Date: 10/27/2025 9:52

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1454	RAF
Surrogate: Dibromofluoromethane	102	Limit: 75-136	% Rec		10/30/25 0000	10/30/25 1454	RAF
Surrogate: Dibromofluoromethane	102	Limit: 57-128	% Rec		10/30/25 0000	10/30/25 1454	RAF
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 49-135	% Rec		10/30/25 0000	10/30/25 1454	RAF
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 61-142	% Rec		10/30/25 0000	10/30/25 1454	RAF
Surrogate: Toluene-d8	105	Limit: 82-121	% Rec		10/30/25 0000	10/30/25 1454	RAF
Surrogate: Toluene-d8	105	Limit: 82-116	% Rec		10/30/25 0000	10/30/25 1454	RAF
Surrogate: 4-Bromofluorobenzene	90.9	Limit: 77-114	% Rec		10/30/25 0000	10/30/25 1454	RAF
Surrogate: 4-Bromofluorobenzene	90.9	Limit: 80-116	% Rec		10/30/25 0000	10/30/25 1454	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1818	RVV
Arsenic	0.0133	0.0020	mg/L		10/29/25 1522	10/30/25 1818	RVV
Barium	0.634	0.0010	mg/L		10/29/25 1522	10/30/25 1818	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1818	RVV
Cadmium	<0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1818	RVV
Chromium	0.0016	0.0010	mg/L		10/29/25 1522	10/30/25 1818	RVV
Cobalt	0.0061	0.0005	mg/L		10/29/25 1522	10/30/25 1818	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1818	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1818	RVV
Nickel	0.0083	0.0050	mg/L		10/29/25 1522	10/30/25 1818	RVV
Selenium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1818	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1818	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1818	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1818	RVV
Zinc	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1818	RVV

Determination of Conventional Chemistry Parameters	Result	RL	Units	Note	Prepared	Analyzed	Analyst
SM 4500-S2- D-2011							
Sulfide, total	0.10	0.10	mg/L		10/31/25 1242	10/31/25 1622	AKK



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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-24
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-05

Collected By: JGH
Collection Date: 10/27/2025 11:00

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Bromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Chloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Acetone	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Chloroform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Benzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Dibromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Toluene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Xylenes, total	<2.0	2.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Styrene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Bromoform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-24
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-05

Collected By: JGH
Collection Date: 10/27/2025 11:00

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1517	RAF
Surrogate: Dibromofluoromethane	101	Limit: 57-128	% Rec		10/30/25 0000	10/30/25 1517	RAF
Surrogate: Dibromofluoromethane	101	Limit: 75-136	% Rec		10/30/25 0000	10/30/25 1517	RAF
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 49-135	% Rec		10/30/25 0000	10/30/25 1517	RAF
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 61-142	% Rec		10/30/25 0000	10/30/25 1517	RAF
Surrogate: Toluene-d8	106	Limit: 82-116	% Rec		10/30/25 0000	10/30/25 1517	RAF
Surrogate: Toluene-d8	106	Limit: 82-121	% Rec		10/30/25 0000	10/30/25 1517	RAF
Surrogate: 4-Bromofluorobenzene	91.4	Limit: 77-114	% Rec		10/30/25 0000	10/30/25 1517	RAF
Surrogate: 4-Bromofluorobenzene	91.4	Limit: 80-116	% Rec		10/30/25 0000	10/30/25 1517	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1820	RVV
Arsenic	0.0095	0.0020	mg/L		10/29/25 1522	10/30/25 1820	RVV
Barium	0.618	0.0010	mg/L		10/29/25 1522	10/30/25 1820	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1820	RVV
Cadmium	0.0009	0.0002	mg/L		10/29/25 1522	10/30/25 1820	RVV
Chromium	0.0011	0.0010	mg/L		10/29/25 1522	10/30/25 1820	RVV
Cobalt	0.0020	0.0005	mg/L		10/29/25 1522	10/30/25 1820	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1820	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1820	RVV
Nickel	0.0265	0.0050	mg/L		10/29/25 1522	10/30/25 1820	RVV
Selenium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1820	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1820	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1820	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1820	RVV
Zinc	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1820	RVV

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-37R
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-06

Collected By: JGH
Collection Date: 10/27/2025 13:22

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Dichlorodifluoromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Chloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Bromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Chloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Acrolein	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Acetone	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Methyl Iodide	<2.0	2.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Carbon Disulfide	4.2	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Acetonitrile	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
2,2-Dichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
2-Butanone (MEK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Chloroform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,1-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Benzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Dibromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Toluene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Ethyl Methacrylate	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,3-Dichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-37R
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-06

Collected By: JGH
Collection Date: 10/27/2025 13:22

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Chlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Xylenes, total	<2.0	2.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Styrene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Bromoform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,3-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
1,2,4-Trichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1540	RAF
Allyl chloride	<1.0	1.0	ug/L		11/07/25 0000	11/07/25 1438	RAF
Chloroprene	<1.0	1.0	ug/L		11/07/25 0000	11/07/25 1438	RAF
Methacrylonitrile	<1.0	1.0	ug/L		11/07/25 0000	11/07/25 1438	RAF
Methyl Methacrylate	<1.0	1.0	ug/L		11/07/25 0000	11/07/25 1438	RAF
Propionitrile	<10.0	10.0	ug/L		11/07/25 0000	11/07/25 1438	RAF
Surrogate: Dibromofluoromethane	48.7	Limit: 57-128	% Rec	S2	11/07/25 0000	11/07/25 1438	RAF
Surrogate: Dibromofluoromethane	99.8	Limit: 57-128	% Rec		10/30/25 0000	10/30/25 1540	RAF
Surrogate: 1,2-Dichloroethane-d4	97.3	Limit: 49-135	% Rec		11/07/25 0000	11/07/25 1438	RAF
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 49-135	% Rec		10/30/25 0000	10/30/25 1540	RAF
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 49-135	% Rec		10/30/25 0000	10/30/25 1540	RAF
Surrogate: Toluene-d8	94.2	Limit: 82-116	% Rec		11/07/25 0000	11/07/25 1438	RAF
Surrogate: Toluene-d8	107	Limit: 82-116	% Rec		10/30/25 0000	10/30/25 1540	RAF
Surrogate: Toluene-d8	107	Limit: 82-116	% Rec		10/30/25 0000	10/30/25 1540	RAF
Surrogate: 4-Bromofluorobenzene	99.7	Limit: 77-114	% Rec		11/07/25 0000	11/07/25 1438	RAF
Surrogate: 4-Bromofluorobenzene	91.0	Limit: 77-114	% Rec		10/30/25 0000	10/30/25 1540	RAF
Surrogate: 4-Bromofluorobenzene	91.0	Limit: 77-114	% Rec		10/30/25 0000	10/30/25 1540	RAF
Determination of General Solvents	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 8015C							
Isobutanol	<1.0	1.0	mg/L		11/07/25 1050	11/07/25 1900	PDS
Metals Total by AA	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 7470A							
Mercury	<0.00050	0.00050	mg/L		11/05/25 1541	11/06/25 1541	JAR
Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3520C/EPA 8270C							
N-Nitrosodimethylamine	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Methyl Methanesulfonate	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11J2324

Client Sample ID: MW-37R
Sample Matrix: Aqueous
Lab Sample ID: 11J2324-06

Collected By: JGH
Collection Date: 10/27/2025 13:22

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
N-Nitrosodiethylamine	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
N-Nitrosomethylethylamine	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Ethyl Methanesulfonate	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Phenol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Bis(2-Chloroethyl) Ether	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
2-Chlorophenol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Benzyl Alcohol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
2-Methylphenol (o-Cresol)	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Bis[2-Chloroisopropyl]ether	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
n-Nitroso-di-n-propylamine	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
N-Nitrosopyrrolidine	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Acetophenone	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
o-Toluidine	<8	8	ug/L	Q3	10/29/25 1434	11/11/25 1102	EPP
(3 & 4)-Methylphenol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Hexachloroethane	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Nitrobenzene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
N-Nitrosopiperidine	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Isophorone	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
2-Nitrophenol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
2,4-Dimethylphenol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Bis (2-Chloroethoxy) Methane	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
2,4-Dichlorophenol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Naphthalene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
4-Chloroaniline	<8	8	ug/L	Q3	10/29/25 1434	11/11/25 1102	EPP
2,6-Dichlorophenol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Hexachloropropene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Hexachlorobutadiene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
N-Nitrosodi-n-butylamine	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
1,4-Phenylenediamine	<8	8	ug/L	Q3	10/29/25 1434	11/11/25 1102	EPP
4-Chloro-3-methylphenol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
2-Methylnaphthalene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Isosafrole	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
1,2,4,5-Tetrachlorobenzene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Hexachlorocyclopentadiene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
2,4,6-Trichlorophenol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
2,4,5-Trichlorophenol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Safrole	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
2-Chloronaphthalene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
2-Nitroaniline	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
1,4-Naphthoquinone	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Dimethylphthalate	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
1,3-Dinitrobenzene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
1,2-Dinitrobenzene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-37R
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-06

Collected By: JGH
Collection Date: 10/27/2025 13:22

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
2,6-Dinitrotoluene	<8	8	ug/L	Q3	10/29/25 1434	11/11/25 1102	EPP
Acenaphthylene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
3-Nitroaniline	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Acenaphthene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
2,4-Dinitrophenol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
4-Nitrophenol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Dibenzofuran	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
2,4-Dinitrotoluene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
2,3,4,6-Tetrachlorophenol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Pentachlorobenzene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
1-Naphthylamine	<8	8	ug/L	Q3	10/29/25 1434	11/11/25 1102	EPP
2-Naphthylamine	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Diethyl Phthalate	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Fluorene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
4-Chlorophenyl Phenyl Ether	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
4-Nitroaniline	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
5-Nitro-o-toluidine	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
4,6-Dinitro-2-methylphenol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
N-Nitrosodiphenylamine	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Diphenylamine	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Azobenzene	<8	8	ug/L	Q3	10/29/25 1434	11/11/25 1102	EPP
Diallate	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
1,3,5-Trinitrobenzene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Phenacetin	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
4-Bromophenyl Phenyl Ether	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
4-Aminobiphenyl	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Pentachlorophenol	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Pronamide	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Pentachloronitrobenzene (PCNB)	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Phenanthrene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Anthracene	<8	8	ug/L	Q3	10/29/25 1434	11/11/25 1102	EPP
Di-n-butyl Phthalate	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Methapyrilene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Fluoranthene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Isodrin	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Chlorobenzilate	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Pyrene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
p-(Dimethylamino)azobenzene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
3,3-Dimethylbenzidine	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Butyl Benzyl Phthalate	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Benzo(a)anthracene	<8	8	ug/L	Q3	10/29/25 1434	11/11/25 1102	EPP
Chrysene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Bis(2-Ethylhexyl) Phthalate	<6	6	ug/L		10/29/25 1434	11/11/25 1102	EPP

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-37R
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-06

Collected By: JGH
Collection Date: 10/27/2025 13:22

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Kepone	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
3,3'-Dichlorobenzidine	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
2-Acetylaminofluorene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Di-n-octyl Phthalate	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Benzo(b)Fluoranthene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
7,12-Dimethylbenz [a] anthracene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Benzo(k)Fluoranthene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Benzo(a)Pyrene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
3-Methylcholanthrene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Dibenzo(a,h)anthracene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Indeno(1,2,3-cd)Pyrene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Benzo(g,h,i)perylene	<8	8	ug/L		10/29/25 1434	11/11/25 1102	EPP
Surrogate: 2-Fluorophenol	78.2	Limit: 10-159	% Rec		10/29/25 1434	11/11/25 1102	EPP
Surrogate: Phenol-d6	80.5	Limit: 10-162	% Rec		10/29/25 1434	11/11/25 1102	EPP
Surrogate: Nitrobenzene-d5	75.7	Limit: 17-154	% Rec		10/29/25 1434	11/11/25 1102	EPP
Surrogate: 2-Fluorobiphenyl	78.8	Limit: 15-150	% Rec		10/29/25 1434	11/11/25 1102	EPP
Surrogate: 2,4,6-Tribromophenol	85.5	Limit: 10-156	% Rec		10/29/25 1434	11/11/25 1102	EPP
Surrogate: Terphenyl-dl4	91.1	Limit: 10-179	% Rec		10/29/25 1434	11/11/25 1102	EPP

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1823	RVV
Arsenic	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1823	RVV
Barium	0.925	0.0010	mg/L		10/29/25 1522	10/30/25 1823	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1823	RVV
Cadmium	<0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1823	RVV
Chromium	0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1823	RVV
Cobalt	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1823	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1823	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1823	RVV
Nickel	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1823	RVV
Selenium	0.0028	0.0020	mg/L		10/29/25 1522	10/30/25 1823	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1823	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1823	RVV
Tin	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1823	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1823	RVV
Zinc	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1823	RVV

Determination of Organophosphorus Insecticides	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3510C/EPA 8141							
O,O,O-Triethyl phosphorothioate	<0.4	0.4	ug/L		11/03/25 1430	11/10/25 1252	EPP
Thionazin	<0.4	0.4	ug/L		11/03/25 1430	11/10/25 1252	EPP
Phorate	<0.4	0.4	ug/L		11/03/25 1430	11/10/25 1252	EPP



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-37R
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-06

Collected By: JGH
Collection Date: 10/27/2025 13:22

Determination of Organophosphorus Insecticides	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Dimethoate	<0.4	0.4	ug/L		11/03/25 1430	11/10/25 1252	EPP
Disulfoton	<0.4	0.4	ug/L		11/03/25 1430	11/10/25 1252	EPP
Methyl Parathion	<0.4	0.4	ug/L		11/03/25 1430	11/10/25 1252	EPP
Parathion	<0.4	0.4	ug/L		11/03/25 1430	11/10/25 1252	EPP
Famphur	<0.4	0.4	ug/L		11/03/25 1430	11/10/25 1252	EPP
Surrogate: 2-Nitro-m-xylene	91.9	Limit: 32-110	% Rec		11/03/25 1430	11/10/25 1252	EPP

Determination of Chlorinated Phenoxy Herbicides	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 8151A							
2,4-D	<2.0	2.0	ug/L		10/30/25 1305	11/03/25 1525	EPP
2,4,5-TP (Silvex)	<0.5	0.5	ug/L		10/30/25 1305	11/03/25 1525	EPP
2,4,5-T	<0.5	0.5	ug/L		10/30/25 1305	11/03/25 1525	EPP
Dinoseb	<0.5	0.5	ug/L		10/30/25 1305	11/03/25 1525	EPP
Surrogate: 2,5-Dichlorobenzoic Acid	126	Limit: 49-174	% Rec		10/30/25 1305	11/03/25 1525	EPP

Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3510C/EPA 8081A							
Alpha-BHC	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
Gamma-BHC [Lindane]	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
Beta-BHC	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
Heptachlor	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
Delta-BHC	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
Aldrin	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
Heptachlor Epoxide	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
Endosulfan I	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
4,4'-DDE	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
Dieldrin	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
Endrin	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
4,4'-DDD	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
Endosulfan II	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
4,4'-DDT	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
Endrin Aldehyde	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
Endosulfan Sulfate	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
Methoxychlor	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
Chlordane	<0.10	0.10	ug/L		11/03/25 1429	11/10/25 1217	EPP
Toxaphene	<0.20	0.20	ug/L		11/03/25 1429	11/10/25 1217	EPP
Hexachlorobenzene	<0.05	0.05	ug/L		11/03/25 1429	11/10/25 1217	EPP
Surrogate: Tetrachloro-m-xylene	75.2	Limit: 45-111	% Rec		11/03/25 1429	11/10/25 1217	EPP

Determination of Polychlorinated Biphenyls (PCB)	Result	RL	Units	Note	Prepared	Analyzed	Analyst



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-37R
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-06

Collected By: JGH
Collection Date: 10/27/2025 13:22

Determination of Polychlorinated Biphenyls (PCB)	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3510C/EPA 8082A							
Arochlor 1016	<0.20	0.20	ug/L		11/03/25 1427	11/10/25 1217	EPP
Arochlor 1221	<0.20	0.20	ug/L		11/03/25 1427	11/10/25 1217	EPP
Arochlor 1232	<0.20	0.20	ug/L		11/03/25 1427	11/10/25 1217	EPP
Arochlor 1242	<0.20	0.20	ug/L		11/03/25 1427	11/10/25 1217	EPP
Arochlor 1248	<0.20	0.20	ug/L		11/03/25 1427	11/10/25 1217	EPP
Arochlor 1254	<0.20	0.20	ug/L		11/03/25 1427	11/10/25 1217	EPP
Arochlor 1260	<0.20	0.20	ug/L		11/03/25 1427	11/10/25 1217	EPP
Surrogate: Tetrachloro-m-xylene	86.5	Limit: 50-116	% Rec		11/03/25 1427	11/10/25 1217	EPP
Surrogate: Decachlorobiphenyl	80.3	Limit: 38-122	% Rec		11/03/25 1427	11/10/25 1217	EPP
Determination of Conventional Chemistry Parameters							
EPA 376.2							
Sulfide, total	<0.10	0.10	mg/L		10/31/25 1242	10/31/25 1622	AKK
EPA 9014							
Cyanide, total	<0.010	0.010	mg/L	M2		11/05/25 1607	CJF

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-38R
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-07

Collected By: JGH
Collection Date: 10/27/2025 9:36

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Bromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Chloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Acetone	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Chloroform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Benzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Dibromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Toluene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Xylenes, total	<2.0	2.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Styrene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Bromoform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-38R
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-07

Collected By: JGH
Collection Date: 10/27/2025 9:36

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1603	RAF
Surrogate: Dibromofluoromethane	96.4	Limit: 57-128	% Rec		10/30/25 0000	10/30/25 1603	RAF
Surrogate: Dibromofluoromethane	96.4	Limit: 75-136	% Rec		10/30/25 0000	10/30/25 1603	RAF
Surrogate: 1,2-Dichloroethane-d4	84.9	Limit: 49-135	% Rec		10/30/25 0000	10/30/25 1603	RAF
Surrogate: 1,2-Dichloroethane-d4	84.9	Limit: 61-142	% Rec		10/30/25 0000	10/30/25 1603	RAF
Surrogate: Toluene-d8	107	Limit: 82-116	% Rec		10/30/25 0000	10/30/25 1603	RAF
Surrogate: Toluene-d8	107	Limit: 82-121	% Rec		10/30/25 0000	10/30/25 1603	RAF
Surrogate: 4-Bromofluorobenzene	90.9	Limit: 77-114	% Rec		10/30/25 0000	10/30/25 1603	RAF
Surrogate: 4-Bromofluorobenzene	90.9	Limit: 80-116	% Rec		10/30/25 0000	10/30/25 1603	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1825	RVV
Arsenic	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1825	RVV
Barium	0.247	0.0010	mg/L		10/29/25 1522	10/30/25 1825	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1825	RVV
Cadmium	<0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1825	RVV
Chromium	0.0032	0.0010	mg/L		10/29/25 1522	10/30/25 1825	RVV
Cobalt	0.0006	0.0005	mg/L		10/29/25 1522	10/30/25 1825	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1825	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1825	RVV
Nickel	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1825	RVV
Selenium	0.0056	0.0020	mg/L		10/29/25 1522	10/30/25 1825	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1825	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1825	RVV
Vanadium	0.0031	0.0020	mg/L		10/29/25 1522	10/30/25 1825	RVV
Zinc	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1825	RVV

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-39
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-08

Collected By: JGH
Collection Date: 10/27/2025 11:44

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Bromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Chloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Acetone	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Chloroform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Benzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Dibromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Toluene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Xylenes, total	<2.0	2.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Styrene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Bromoform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-39
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-08

Collected By: JGH
Collection Date: 10/27/2025 11:44

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1626	RAF
Surrogate: Dibromofluoromethane	101	Limit: 57-128	% Rec		10/30/25 0000	10/30/25 1626	RAF
Surrogate: Dibromofluoromethane	101	Limit: 75-136	% Rec		10/30/25 0000	10/30/25 1626	RAF
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 49-135	% Rec		10/30/25 0000	10/30/25 1626	RAF
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 61-142	% Rec		10/30/25 0000	10/30/25 1626	RAF
Surrogate: Toluene-d8	104	Limit: 82-116	% Rec		10/30/25 0000	10/30/25 1626	RAF
Surrogate: Toluene-d8	104	Limit: 82-121	% Rec		10/30/25 0000	10/30/25 1626	RAF
Surrogate: 4-Bromofluorobenzene	91.1	Limit: 77-114	% Rec		10/30/25 0000	10/30/25 1626	RAF
Surrogate: 4-Bromofluorobenzene	91.1	Limit: 80-116	% Rec		10/30/25 0000	10/30/25 1626	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1833	RVV
Arsenic	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1833	RVV
Barium	0.0975	0.0010	mg/L		10/29/25 1522	10/30/25 1833	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1833	RVV
Cadmium	<0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1833	RVV
Chromium	0.0021	0.0010	mg/L		10/29/25 1522	10/30/25 1833	RVV
Cobalt	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1833	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1833	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1833	RVV
Nickel	<0.0050	0.0050	mg/L		11/03/25 1620	11/04/25 1953	RVV
Selenium	0.0715	0.0020	mg/L		10/29/25 1522	10/30/25 1833	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1833	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1833	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1833	RVV
Zinc	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1833	RVV

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-43
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-09

Collected By: JGH
Collection Date: 10/27/2025 9:20

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Bromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Chloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Acetone	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Chloroform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Benzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Dibromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Toluene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Xylenes, total	<2.0	2.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Styrene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Bromoform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-43
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-09

Collected By: JGH
Collection Date: 10/27/2025 9:20

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1649	RAF
Surrogate: Dibromofluoromethane	98.7	Limit: 57-128	% Rec		10/30/25 0000	10/30/25 1649	RAF
Surrogate: Dibromofluoromethane	98.7	Limit: 75-136	% Rec		10/30/25 0000	10/30/25 1649	RAF
Surrogate: 1,2-Dichloroethane-d4	100	Limit: 49-135	% Rec		10/30/25 0000	10/30/25 1649	RAF
Surrogate: 1,2-Dichloroethane-d4	100	Limit: 61-142	% Rec		10/30/25 0000	10/30/25 1649	RAF
Surrogate: Toluene-d8	104	Limit: 82-116	% Rec		10/30/25 0000	10/30/25 1649	RAF
Surrogate: Toluene-d8	104	Limit: 82-121	% Rec		10/30/25 0000	10/30/25 1649	RAF
Surrogate: 4-Bromofluorobenzene	91.2	Limit: 77-114	% Rec		10/30/25 0000	10/30/25 1649	RAF
Surrogate: 4-Bromofluorobenzene	91.2	Limit: 80-116	% Rec		10/30/25 0000	10/30/25 1649	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1835	RVV
Arsenic	0.0024	0.0020	mg/L		10/29/25 1522	10/30/25 1835	RVV
Barium	0.319	0.0010	mg/L		10/29/25 1522	10/30/25 1835	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1835	RVV
Cadmium	0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1835	RVV
Chromium	0.0011	0.0010	mg/L		10/29/25 1522	10/30/25 1835	RVV
Cobalt	0.0043	0.0005	mg/L		10/29/25 1522	10/30/25 1835	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1835	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1835	RVV
Nickel	0.0096	0.0050	mg/L		10/29/25 1522	10/30/25 1835	RVV
Selenium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1835	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1835	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1835	RVV
Vanadium	0.0022	0.0020	mg/L		10/29/25 1522	10/30/25 1835	RVV
Zinc	0.0095	0.0050	mg/L		10/29/25 1522	10/30/25 1835	RVV

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-13
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-10

Collected By: JGH
Collection Date: 10/27/2025 9:05

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Bromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Chloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Acetone	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Carbon Disulfide	2.1	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Chloroform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Benzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Dibromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Toluene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Xylenes, total	<2.0	2.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Styrene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Bromoform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-13
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-10

Collected By: JGH
Collection Date: 10/27/2025 9:05

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1712	RAF
Surrogate: Dibromofluoromethane	98.6	Limit: 75-136	% Rec		10/30/25 0000	10/30/25 1712	RAF
Surrogate: Dibromofluoromethane	98.6	Limit: 57-128	% Rec		10/30/25 0000	10/30/25 1712	RAF
Surrogate: 1,2-Dichloroethane-d4	103	Limit: 49-135	% Rec		10/30/25 0000	10/30/25 1712	RAF
Surrogate: 1,2-Dichloroethane-d4	103	Limit: 61-142	% Rec		10/30/25 0000	10/30/25 1712	RAF
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec		10/30/25 0000	10/30/25 1712	RAF
Surrogate: Toluene-d8	103	Limit: 82-116	% Rec		10/30/25 0000	10/30/25 1712	RAF
Surrogate: 4-Bromofluorobenzene	91.3	Limit: 80-116	% Rec		10/30/25 0000	10/30/25 1712	RAF
Surrogate: 4-Bromofluorobenzene	91.3	Limit: 77-114	% Rec		10/30/25 0000	10/30/25 1712	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1838	RVV
Arsenic	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1838	RVV
Barium	0.213	0.0010	mg/L		10/29/25 1522	10/30/25 1838	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1838	RVV
Cadmium	<0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1838	RVV
Chromium	0.0014	0.0010	mg/L		10/29/25 1522	10/30/25 1838	RVV
Cobalt	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1838	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1838	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1838	RVV
Nickel	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1838	RVV
Selenium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1838	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1838	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1838	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1838	RVV
Zinc	0.0083	0.0050	mg/L		10/29/25 1522	10/30/25 1838	RVV

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-22
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-11

Collected By: JGH
Collection Date: 10/27/2025 12:44

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Bromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Chloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Acetone	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Chloroform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Benzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Dibromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Toluene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Xylenes, total	<2.0	2.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Styrene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Bromoform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-22
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-11

Collected By: JGH
Collection Date: 10/27/2025 12:44

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1735	RAF
Surrogate: Dibromofluoromethane	101	Limit: 57-128	% Rec		10/30/25 0000	10/30/25 1735	RAF
Surrogate: Dibromofluoromethane	101	Limit: 75-136	% Rec		10/30/25 0000	10/30/25 1735	RAF
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 61-142	% Rec		10/30/25 0000	10/30/25 1735	RAF
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 49-135	% Rec		10/30/25 0000	10/30/25 1735	RAF
Surrogate: Toluene-d8	105	Limit: 82-116	% Rec		10/30/25 0000	10/30/25 1735	RAF
Surrogate: Toluene-d8	105	Limit: 82-121	% Rec		10/30/25 0000	10/30/25 1735	RAF
Surrogate: 4-Bromofluorobenzene	92.6	Limit: 80-116	% Rec		10/30/25 0000	10/30/25 1735	RAF
Surrogate: 4-Bromofluorobenzene	92.6	Limit: 77-114	% Rec		10/30/25 0000	10/30/25 1735	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	0.0066	0.0010	mg/L		10/29/25 1522	10/30/25 1840	RVV
Arsenic	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1840	RVV
Barium	0.229	0.0010	mg/L		10/29/25 1522	10/30/25 1840	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1840	RVV
Cadmium	<0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1840	RVV
Chromium	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1840	RVV
Cobalt	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1840	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1840	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1840	RVV
Nickel	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1840	RVV
Selenium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1840	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1840	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1840	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1840	RVV
Zinc	0.0056	0.0050	mg/L		10/29/25 1522	10/30/25 1840	RVV

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-11
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-12

Collected By: JGH
Collection Date: 10/27/2025 8:55

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Bromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Chloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Acetone	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Chloroform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Benzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Dibromomethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Toluene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Xylenes, total	<2.0	2.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Styrene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Bromoform	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-11
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-12

Collected By: JGH
Collection Date: 10/27/2025 8:55

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/30/25 0000	10/30/25 1757	RAF
Surrogate: Dibromofluoromethane	99.0	Limit: 57-128	% Rec		10/30/25 0000	10/30/25 1757	RAF
Surrogate: Dibromofluoromethane	99.0	Limit: 75-136	% Rec		10/30/25 0000	10/30/25 1757	RAF
Surrogate: 1,2-Dichloroethane-d4	103	Limit: 49-135	% Rec		10/30/25 0000	10/30/25 1757	RAF
Surrogate: 1,2-Dichloroethane-d4	103	Limit: 61-142	% Rec		10/30/25 0000	10/30/25 1757	RAF
Surrogate: Toluene-d8	107	Limit: 82-116	% Rec		10/30/25 0000	10/30/25 1757	RAF
Surrogate: Toluene-d8	107	Limit: 82-121	% Rec		10/30/25 0000	10/30/25 1757	RAF
Surrogate: 4-Bromofluorobenzene	92.5	Limit: 77-114	% Rec		10/30/25 0000	10/30/25 1757	RAF
Surrogate: 4-Bromofluorobenzene	92.5	Limit: 80-116	% Rec		10/30/25 0000	10/30/25 1757	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1843	RVV
Arsenic	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1843	RVV
Barium	0.203	0.0010	mg/L		10/29/25 1522	10/30/25 1843	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1843	RVV
Cadmium	0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1843	RVV
Chromium	0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1843	RVV
Cobalt	0.0021	0.0005	mg/L		10/29/25 1522	10/30/25 1843	RVV
Copper	0.0549	0.0050	mg/L		10/29/25 1522	10/30/25 1843	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1843	RVV
Nickel	0.0063	0.0050	mg/L		10/29/25 1522	10/30/25 1843	RVV
Selenium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1843	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1843	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1843	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1843	RVV
Zinc	0.0815	0.0050	mg/L		10/29/25 1522	10/30/25 1843	RVV

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-23
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-13

Collected By: JGH
Collection Date: 10/27/2025 10:03

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Bromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Chloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Acetone	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Chloroform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Benzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Dibromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Toluene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Xylenes, total	<2.0	2.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Styrene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Bromoform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF

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1IJ2324

Client Sample ID: MW-23
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-13

Collected By: JGH
Collection Date: 10/27/2025 10:03

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1142	RAF
Surrogate: Dibromofluoromethane	93.0	Limit: 75-136	% Rec		10/31/25 0000	10/31/25 1142	RAF
Surrogate: Dibromofluoromethane	93.0	Limit: 57-128	% Rec		10/31/25 0000	10/31/25 1142	RAF
Surrogate: 1,2-Dichloroethane-d4	84.3	Limit: 61-142	% Rec		10/31/25 0000	10/31/25 1142	RAF
Surrogate: 1,2-Dichloroethane-d4	84.3	Limit: 49-135	% Rec		10/31/25 0000	10/31/25 1142	RAF
Surrogate: Toluene-d8	98.0	Limit: 82-116	% Rec		10/31/25 0000	10/31/25 1142	RAF
Surrogate: Toluene-d8	98.0	Limit: 82-121	% Rec		10/31/25 0000	10/31/25 1142	RAF
Surrogate: 4-Bromofluorobenzene	91.7	Limit: 77-114	% Rec		10/31/25 0000	10/31/25 1142	RAF
Surrogate: 4-Bromofluorobenzene	91.7	Limit: 80-116	% Rec		10/31/25 0000	10/31/25 1142	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	0.0012	0.0010	mg/L		10/29/25 1522	10/30/25 1845	RVV
Arsenic	0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1845	RVV
Barium	0.0229	0.0010	mg/L		10/29/25 1522	10/30/25 1845	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1845	RVV
Cadmium	<0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1845	RVV
Chromium	0.0040	0.0010	mg/L		10/29/25 1522	10/30/25 1845	RVV
Cobalt	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1845	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1845	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1845	RVV
Nickel	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1845	RVV
Selenium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1845	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1845	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1845	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1845	RVV
Zinc	0.0079	0.0050	mg/L		10/29/25 1522	10/30/25 1845	RVV

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-36
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-14

Collected By: JGH
Collection Date: 10/27/2025 11:28

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Bromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Chloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Acetone	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Carbon Disulfide	1.1	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Chloroform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Benzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Dibromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Toluene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Xylenes, total	<2.0	2.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Styrene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Bromoform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: MW-36
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-14

Collected By: JGH
Collection Date: 10/27/2025 11:28

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1205	RAF
Surrogate: Dibromofluoromethane	92.5	Limit: 57-128	% Rec		10/31/25 0000	10/31/25 1205	RAF
Surrogate: Dibromofluoromethane	92.5	Limit: 75-136	% Rec		10/31/25 0000	10/31/25 1205	RAF
Surrogate: 1,2-Dichloroethane-d4	84.3	Limit: 61-142	% Rec		10/31/25 0000	10/31/25 1205	RAF
Surrogate: 1,2-Dichloroethane-d4	84.3	Limit: 49-135	% Rec		10/31/25 0000	10/31/25 1205	RAF
Surrogate: Toluene-d8	97.5	Limit: 82-116	% Rec		10/31/25 0000	10/31/25 1205	RAF
Surrogate: Toluene-d8	97.5	Limit: 82-121	% Rec		10/31/25 0000	10/31/25 1205	RAF
Surrogate: 4-Bromofluorobenzene	92.5	Limit: 80-116	% Rec		10/31/25 0000	10/31/25 1205	RAF
Surrogate: 4-Bromofluorobenzene	92.5	Limit: 77-114	% Rec		10/31/25 0000	10/31/25 1205	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1848	RVV
Arsenic	0.0045	0.0020	mg/L		10/29/25 1522	10/30/25 1848	RVV
Barium	0.251	0.0010	mg/L		10/29/25 1522	10/30/25 1848	RVV
Beryllium	0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1848	RVV
Cadmium	0.0011	0.0002	mg/L		10/29/25 1522	10/30/25 1848	RVV
Chromium	0.0064	0.0010	mg/L		10/29/25 1522	10/30/25 1848	RVV
Cobalt	0.0133	0.0005	mg/L		10/29/25 1522	10/30/25 1848	RVV
Copper	0.0061	0.0050	mg/L		10/29/25 1522	10/30/25 1848	RVV
Lead	<0.0010	0.0010	mg/L		11/03/25 1620	11/04/25 2009	RVV
Nickel	0.0137	0.0050	mg/L		10/29/25 1522	10/30/25 1848	RVV
Selenium	0.0062	0.0020	mg/L		10/29/25 1522	10/30/25 1848	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1848	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1848	RVV
Vanadium	<0.0020	0.0020	mg/L		11/03/25 1620	11/04/25 2009	RVV
Zinc	0.0052	0.0050	mg/L		11/03/25 1620	11/04/25 2009	RVV

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CERTIFICATE OF ANALYSIS

1IJ2324

Client Sample ID: Duplicate
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-15

Collected By: JGH
Collection Date: 10/27/2025 8:25

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1850	RVV
Arsenic	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1850	RVV
Barium	0.196	0.0010	mg/L		10/29/25 1522	10/30/25 1850	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1850	RVV
Cadmium	<0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1850	RVV
Chromium	0.0015	0.0010	mg/L		10/29/25 1522	10/30/25 1850	RVV
Cobalt	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1850	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1850	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1850	RVV
Nickel	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1850	RVV
Selenium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1850	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1850	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1850	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1850	RVV
Zinc	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1850	RVV

Client Sample ID: MW-40
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-16

Collected By: JGH
Collection Date: 10/27/2025 8:25

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1853	RVV
Arsenic	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1853	RVV
Barium	0.100	0.0010	mg/L		10/29/25 1522	10/30/25 1853	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1853	RVV
Cadmium	<0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1853	RVV
Chromium	0.0022	0.0010	mg/L		10/29/25 1522	10/30/25 1853	RVV
Cobalt	0.0014	0.0005	mg/L		10/29/25 1522	10/30/25 1853	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1853	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1853	RVV
Nickel	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1853	RVV
Selenium	0.0034	0.0020	mg/L		10/29/25 1522	10/30/25 1853	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1853	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1853	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1853	RVV
Zinc	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1853	RVV

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1IJ2324

Client Sample ID: MW-41
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-17

Collected By: JGH
Collection Date: 10/27/2025 8:27

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1856	RVV
Arsenic	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1856	RVV
Barium	0.218	0.0010	mg/L		10/29/25 1522	10/30/25 1856	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1856	RVV
Cadmium	<0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1856	RVV
Chromium	0.0011	0.0010	mg/L		10/29/25 1522	10/30/25 1856	RVV
Cobalt	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1856	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1856	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1856	RVV
Nickel	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1856	RVV
Selenium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1856	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1856	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1856	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1856	RVV
Zinc	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1856	RVV

Client Sample ID: MW-27
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2324-18

Collected By: JGH
Collection Date: 10/27/2025 12:20

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1903	RVV
Arsenic	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1903	RVV
Barium	0.273	0.0010	mg/L		10/29/25 1522	10/30/25 1903	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1903	RVV
Cadmium	<0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1903	RVV
Chromium	0.0020	0.0010	mg/L		10/29/25 1522	10/30/25 1903	RVV
Cobalt	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1903	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1903	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1903	RVV
Nickel	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1903	RVV
Selenium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1903	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1903	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1903	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1903	RVV
Zinc	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1903	RVV

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11J2324

Client Sample ID: MW- 28
Sample Matrix: Aqueous
Lab Sample ID: 11J2324-19

Collected By: JGH
Collection Date: 10/27/2025 12:25

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1906	RVV
Arsenic	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1906	RVV
Barium	0.0677	0.0010	mg/L		10/29/25 1522	10/30/25 1906	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1906	RVV
Cadmium	<0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1906	RVV
Chromium	0.0016	0.0010	mg/L		10/29/25 1522	10/30/25 1906	RVV
Cobalt	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1906	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1906	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1906	RVV
Nickel	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1906	RVV
Selenium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1906	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1906	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1906	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1906	RVV
Zinc	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1906	RVV

Client Sample ID: MW-29
Sample Matrix: Aqueous
Lab Sample ID: 11J2324-20

Collected By: JGH
Collection Date: 10/27/2025 12:07

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1908	RVV
Arsenic	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1908	RVV
Barium	0.235	0.0010	mg/L		10/29/25 1522	10/30/25 1908	RVV
Beryllium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1908	RVV
Cadmium	<0.0002	0.0002	mg/L		10/29/25 1522	10/30/25 1908	RVV
Chromium	0.0035	0.0010	mg/L		10/29/25 1522	10/30/25 1908	RVV
Cobalt	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1908	RVV
Copper	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1908	RVV
Lead	<0.0010	0.0010	mg/L		10/29/25 1522	10/30/25 1908	RVV
Nickel	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1908	RVV
Selenium	0.0027	0.0020	mg/L		10/29/25 1522	10/30/25 1908	RVV
Silver	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1908	RVV
Thallium	<0.0005	0.0005	mg/L		10/29/25 1522	10/30/25 1908	RVV
Vanadium	<0.0020	0.0020	mg/L		10/29/25 1522	10/30/25 1908	RVV
Zinc	<0.0050	0.0050	mg/L		10/29/25 1522	10/30/25 1908	RVV

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Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 8270C	1IJ1683	1IJ1683-BLK1	
		1IJ2324-06	MW-37R
		1IJ1683-BS1	
		1IJ1683-BSD1	
Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1IJ1688	1IJ1688-BLK1	
		1IJ1688-BS1	
		1IJ2324-01	MW-15R
		1IJ1688-MS1	1IJ2324-01
		1IJ1688-MSD1	1IJ2324-01
		1IJ1688-PS1	1IJ2324-01
		1IJ2324-02	MW-19
		1IJ2324-03	MW-20
		1IJ2324-04	MW-21
		1IJ2324-05	MW-24
		1IJ2324-06	MW-37R
		1IJ2324-07	MW-38R
		1IJ2324-08	MW-39
		1IJ2324-09	MW-43
		1IJ2324-10	MW-13
		1IJ2324-11	MW-22
		1IJ2324-12	MW-11
		1IJ2324-13	MW-23
		1IJ2324-14	MW-36
		1IJ2324-15	Duplicate
		1IJ2324-16	MW-40
		1IJ2324-17	MW-41
		1IJ2324-18	MW-27
		1IJ2324-19	MW- 28
		1IJ2324-20	MW-29
		1IJ2324-03RE1	MW-20
Method	Batch	Laboratory ID	Client / Source ID
EPA 8151A	1IJ1760	1IJ1760-BLK1	
		1IJ2324-06	MW-37R
		1IJ1760-BS1	
		1IJ1760-BSD1	
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IJ1790	1IJ1790-BS1	
		1IJ1790-BSD1	
		1IJ1790-BLK1	
		1IJ2324-01	MW-15R
		1IJ2324-02	MW-19
		1IJ2324-03	MW-20
		1IJ2324-04	MW-21
		1IJ2324-05	MW-24
		1IJ2324-06	MW-37R
		1IJ2324-07	MW-38R
		1IJ2324-08	MW-39

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Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IJ1790	1IJ2324-09	MW-43
		1IJ2324-10	MW-13
		1IJ2324-11	MW-22
		1IJ2324-12	MW-11
		1IJ1790-MS1	1IJ2324-01
		1IJ1790-MSD1	1IJ2324-01
Method	Batch	Laboratory ID	Client / Source ID
SM 4500-S2- D-2011	1IJ1827	1IJ1827-MSD1	1IJ2195-01
		1IJ2324-02	MW-19
EPA 376.2		1IJ1827-BLK1	
		1IJ2324-06	MW-37R
SM 4500-S2- D-2011		1IJ1827-MS1	1IJ2195-01
		1IJ2324-04	MW-21
EPA 376.2		1IJ1827-BS1	
		1IJ1827-MSD1	1IJ2195-01
SM 4500-S2- D-2011		1IJ1827-MS1	1IJ2195-01
		1IJ2324-03	MW-20
		1IJ1827-BLK1	
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IJ1857	1IJ1857-BS1	
		1IJ1857-BSD1	
		1IJ1857-BLK1	
		1IJ2324-13	MW-23
		1IJ2324-14	MW-36
		1IJ1857-MS1	1IJ2328-01
		1IJ1857-MSD1	1IJ2328-01
Method	Batch	Laboratory ID	Client / Source ID
EPA 8082A	1IK0049	1IK0049-BLK1	
		1IJ2324-06	MW-37R
		1IK0049-BS1	
		1IK0049-BSD1	
Method	Batch	Laboratory ID	Client / Source ID
EPA 8081A	1IK0050	1IK0050-BLK1	
		1IK0050-BS1	
		1IK0050-BSD1	
		1IJ2324-06	MW-37R
Method	Batch	Laboratory ID	Client / Source ID
EPA 8141	1IK0053	1IK0053-BLK1	
		1IJ2324-06	MW-37R
		1IK0053-BS1	
		1IK0053-BSD1	
Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1IK0084	1IK0084-BLK1	
		1IK0084-BS1	
		1IJ2324-08RE3	MW-39
		1IK0084-MS1	1IJ2324-08RE3
		1IK0084-MSD1	1IJ2324-08RE3
		1IK0084-PS1	1IJ2324-08RE3
		1IJ2324-14RE3	MW-36

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1IJ2324

Method	Batch	Laboratory ID	Client / Source ID
EPA 7470A	1IK0233	1IK0233-BLK1	
		1IK0233-BS1	
		1IK0233-MS1	1IJ2285-01
		1IK0233-MSD1	1IJ2285-01
		1IJ2324-06	MW-37R
Method	Batch	Laboratory ID	Client / Source ID
EPA 9014	1IK0238	1IK0238-MSD1	1IJ2324-06
		1IK0238-MS1	1IJ2324-06
		1IK0238-BS1	
		1IK0238-BLK1	
		1IJ2324-06	MW-37R
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IK0326	1IK0326-BS1	
		1IK0326-BSD1	
		1IK0326-BLK1	
		1IK0326-MS1	3IJ0165-01
		1IK0326-MSD1	3IJ0165-01
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IK0381	1IK0381-BS1	
		1IK0381-BSD1	
		1IK0381-BLK1	
		1IJ2324-06	MW-37R
		1IK0381-MS1	1IJ2324-06
Method	Batch	Laboratory ID	Client / Source ID
EPA 8015C	1IK0446	1IK0446-BS1	
		1IK0446-BLK1	
		1IJ2324-06	MW-37R
		1IK0446-MS1	1IJ2590-03
		1IK0446-MSD1	1IJ2590-03

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 1IJ1790 - EPA 5030B - EPA 8260D										
Blank (1IJ1790-BLK1)				Prepared: 10/30/25 00:00 Analyzed: 10/30/25 12:14						
Dichlorodifluoromethane	<1.0	1.0	ug/L							
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							

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CERTIFICATE OF ANALYSIS

11J2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1790 - EPA 5030B - EPA 8260D										
Blank (11J1790-BLK1)				Prepared: 10/30/25 00:00 Analyzed: 10/30/25 12:14						
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							
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							

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CERTIFICATE OF ANALYSIS

1IJ2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1790 - EPA 5030B - EPA 8260D										
Blank (1IJ1790-BLK1)				Prepared: 10/30/25 00:00 Analyzed: 10/30/25 12:14						
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							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	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							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	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							
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							

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CERTIFICATE OF ANALYSIS

1IJ2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1790 - EPA 5030B - EPA 8260D										
Blank (1IJ1790-BLK1)										
				Prepared: 10/30/25 00:00 Analyzed: 10/30/25 12:14						
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							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
1,2,4-Trichlorobenzene	<1.0	1.0	ug/L							
Surrogate: Dibromofluoromethane	50.7		ug/L	50.2		101	57-128			
Surrogate: Dibromofluoromethane	50.7		ug/L	50.2		101	57-128			
Surrogate: Dibromofluoromethane	50.7		ug/L	50.2		101	75-136			
Surrogate: 1,2-Dichloroethane-d4	51.7		ug/L	50.4		103	49-135			
Surrogate: 1,2-Dichloroethane-d4	51.7		ug/L	50.4		103	49-135			
Surrogate: 1,2-Dichloroethane-d4	51.7		ug/L	50.4		103	49-135			
Surrogate: 1,2-Dichloroethane-d4	51.7		ug/L	50.4		103	61-142			
Surrogate: Toluene-d8	52.9		ug/L	50.5		105	82-116			
Surrogate: Toluene-d8	52.9		ug/L	50.5		105	82-116			
Surrogate: Toluene-d8	52.9		ug/L	50.5		105	82-116			
Surrogate: Toluene-d8	52.9		ug/L	50.5		105	82-121			
Surrogate: 4-Bromofluorobenzene	46.0		ug/L	50.2		91.6	77-114			
Surrogate: 4-Bromofluorobenzene	46.0		ug/L	50.2		91.6	77-114			
Surrogate: 4-Bromofluorobenzene	46.0		ug/L	50.2		91.6	77-114			
Surrogate: 4-Bromofluorobenzene	46.0		ug/L	50.2		91.6	80-116			
LCS (1IJ1790-BS1)										
				Prepared: 10/30/25 00:00 Analyzed: 10/30/25 11:06						
Dichlorodifluoromethane	14.44	1.0	ug/L	30.3	47.7	55-141				Q3
Chloromethane	17.23	1.0	ug/L	30.3	56.8	45-170				
Chloromethane	17.23	1.0	ug/L	30.3	56.8	63-155				Q3
Vinyl Chloride	14.62	1.0	ug/L	30.2	48.3	51-157				Q3
Vinyl Chloride	14.62	1.0	ug/L	30.2	48.3	70-154				Q3
Bromomethane	26.54	1.0	ug/L	30.1	88.1	51-161				
Bromomethane	26.54	1.0	ug/L	30.1	88.1	52-176				
Chloroethane	26.31	1.0	ug/L	30.3	86.8	68-134				
Chloroethane	26.31	1.0	ug/L	30.3	86.8	72-148				
Trichlorofluoromethane	30.32	1.0	ug/L	30.3	100	54-146				
Trichlorofluoromethane	30.32	1.0	ug/L	30.3	100	70-152				
Acrolein	44.02	10.0	ug/L	50.3	87.5	10-178				
1,1-Dichloroethylene	41.57	1.0	ug/L	50.1	82.9	63-137				
1,1-Dichloroethylene	41.57	1.0	ug/L	50.1	82.9	70-148				
Acetone	80.39	10.0	ug/L	100	80.4	50-156				
Acetone	80.39	10.0	ug/L	100	80.4	43-172				
Methyl Iodide	118.3	2.0	ug/L	100	118	62-147				
Methyl Iodide	118.3	1.0	ug/L	100	118	69-170				
Carbon Disulfide	90.11	1.0	ug/L	100	90.1	60-129				
Carbon Disulfide	90.11	1.0	ug/L	100	90.1	72-162				
Acetonitrile	100.4	10.0	ug/L	100	100	53-151				
Methylene Chloride	45.58	5.0	ug/L	50.1	91.0	66-126				

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CERTIFICATE OF ANALYSIS

11J2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1790 - EPA 5030B - EPA 8260D										
LCS (11J1790-BS1)				Prepared: 10/30/25 00:00 Analyzed: 10/30/25 11:06						
Methylene Chloride	45.58	5.0	ug/L	50.1		91.0	68-142			
Acrylonitrile	40.37	5.0	ug/L	50.4		80.2	33-163			
Acrylonitrile	40.37	5.0	ug/L	50.4		80.2	33-163			
trans-1,2-Dichloroethylene	44.81	1.0	ug/L	50.1		89.5	68-134			
trans-1,2-Dichloroethylene	44.81	1.0	ug/L	50.1		89.5	66-148			
1,1-Dichloroethane	40.14	1.0	ug/L	50.1		80.1	69-133			
1,1-Dichloroethane	40.14	1.0	ug/L	50.1		80.1	66-143			
Vinyl Acetate	129.8	5.0	ug/L	142		91.1	69-151			
Vinyl Acetate	129.8	5.0	ug/L	142		91.1	43-153			
2,2-Dichloropropane	44.29	1.0	ug/L	50.3		88.0	59-141			
cis-1,2-Dichloroethylene	43.43	1.0	ug/L	50.4		86.3	70-132			
cis-1,2-Dichloroethylene	43.43	1.0	ug/L	50.4		86.3	71-149			
2-Butanone (MEK)	87.25	5.0	ug/L	100		87.2	57-136			
2-Butanone (MEK)	87.25	10.0	ug/L	100		87.2	52-159			
Bromochloromethane	38.56	1.0	ug/L	50.4		76.5	73-127			
Bromochloromethane	38.56	1.0	ug/L	50.4		76.5	69-143			
Chloroform	41.44	1.0	ug/L	50.1		82.7	67-130			
Chloroform	41.44	1.0	ug/L	50.1		82.7	69-144			
1,1,1-Trichloroethane	43.08	1.0	ug/L	50.1		86.0	63-135			
1,1,1-Trichloroethane	43.08	1.0	ug/L	50.1		86.0	62-129			
1,1-Dichloropropene	41.03	1.0	ug/L	50.5		81.3	66-134			
Carbon Tetrachloride	51.21	1.0	ug/L	50.1		102	67-134			
Carbon Tetrachloride	51.21	1.0	ug/L	50.1		102	63-141			
Benzene	43.88	1.0	ug/L	50.4		87.0	80-118			
Benzene	43.88	1.0	ug/L	50.4		87.0	71-134			
1,2-Dichloroethane	41.66	1.0	ug/L	50.1		83.2	77-126			
1,2-Dichloroethane	41.66	1.0	ug/L	50.1		83.2	72-132			
Trichloroethylene	48.58	1.0	ug/L	50.1		97.0	79-120			
Trichloroethylene	48.58	1.0	ug/L	50.1		97.0	71-135			
1,2-Dichloropropane	45.02	1.0	ug/L	50.1		89.9	80-121			
1,2-Dichloropropane	45.02	1.0	ug/L	50.1		89.9	69-136			
Dibromomethane	43.29	1.0	ug/L	50.4		85.9	75-122			
Dibromomethane	43.29	1.0	ug/L	50.4		85.9	73-147			
Bromodichloromethane	45.91	1.0	ug/L	50.1		91.7	79-123			
Bromodichloromethane	45.91	1.0	ug/L	50.1		91.7	68-129			
cis-1,3-Dichloropropene	42.03	1.0	ug/L	50.1		83.9	77-116			
cis-1,3-Dichloropropene	42.03	1.0	ug/L	50.1		83.9	65-134			
4-Methyl-2-pentanone (MIBK)	79.47	5.0	ug/L	100		79.5	64-138			
4-Methyl-2-pentanone (MIBK)	79.47	5.0	ug/L	100		79.5	58-147			
Toluene	45.36	1.0	ug/L	50.5		89.9	79-118			
Toluene	45.36	1.0	ug/L	50.5		89.9	72-133			
trans-1,3-Dichloropropene	41.82	1.0	ug/L	50.1		83.5	77-116			
trans-1,3-Dichloropropene	41.82	1.0	ug/L	50.1		83.5	67-130			

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CERTIFICATE OF ANALYSIS

11J2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1790 - EPA 5030B - EPA 8260D										
LCS (11J1790-BS1)										
Prepared: 10/30/25 00:00 Analyzed: 10/30/25 11:06										
Ethyl Methacrylate	79.11	10.0	ug/L	100		79.1	63-130			
1,1,2-Trichloroethane	46.31	1.0	ug/L	50.1		92.5	80-117			
1,1,2-Trichloroethane	46.31	1.0	ug/L	50.1		92.5	69-135			
Tetrachloroethylene	54.06	1.0	ug/L	50.1		108	77-126			
Tetrachloroethylene	54.06	1.0	ug/L	50.1		108	69-130			
1,3-Dichloropropane	42.37	1.0	ug/L	50.4		84.0	79-131			
2-Hexanone (MBK)	85.96	5.0	ug/L	100		86.0	60-149			
2-Hexanone (MBK)	85.96	5.0	ug/L	100		86.0	55-144			
Dibromochloromethane	48.59	1.0	ug/L	50.1		97.0	86-121			
Dibromochloromethane	48.59	1.0	ug/L	50.1		97.0	73-127			
1,2-Dibromoethane	47.86	1.0	ug/L	50.2		95.3	77-124			
1,2-Dibromoethane	47.86	1.0	ug/L	50.2		95.3	67-132			
Chlorobenzene	46.89	1.0	ug/L	50.1		93.6	77-124			
Chlorobenzene	46.89	1.0	ug/L	50.1		93.6	72-123			
1,1,1,2-Tetrachloroethane	52.54	1.0	ug/L	50.3		104	84-117			
1,1,1,2-Tetrachloroethane	52.54	1.0	ug/L	50.3		104	73-127			
Ethylbenzene	46.81	1.0	ug/L	50.2		93.3	79-128			
Ethylbenzene	46.81	1.0	ug/L	50.2		93.3	71-127			
Xylenes, total	137.7	2.0	ug/L	151		91.2	81-124			
Xylenes, total	137.7	2.0	ug/L	151		91.2	74-127			
Styrene	54.06	1.0	ug/L	50.4		107	83-124			
Styrene	54.06	1.0	ug/L	50.4		107	66-126			
Bromoform	53.41	1.0	ug/L	50.1		107	81-121			
Bromoform	53.41	1.0	ug/L	50.1		107	68-130			
1,2,3-Trichloropropane	47.66	1.0	ug/L	50.3		94.7	76-120			
1,2,3-Trichloropropane	47.66	1.0	ug/L	50.3		94.7	63-136			
trans-1,4-Dichloro-2-butene	75.17	5.0	ug/L	100		75.2	55-128			
trans-1,4-Dichloro-2-butene	75.17	5.0	ug/L	100		75.2	54-134			
1,1,2,2-Tetrachloroethane	39.76	1.0	ug/L	50.1		79.4	65-138			
1,1,2,2-Tetrachloroethane	39.76	1.0	ug/L	50.1		79.4	61-131			
1,3-Dichlorobenzene	48.88	1.0	ug/L	50.1		97.6	78-122			
1,4-Dichlorobenzene	49.04	1.0	ug/L	50.1		97.8	72-125			
1,4-Dichlorobenzene	49.04	1.0	ug/L	50.1		97.8	70-129			
1,2-Dichlorobenzene	47.24	1.0	ug/L	50.1		94.3	76-124			
1,2-Dichlorobenzene	47.24	1.0	ug/L	50.1		94.3	69-126			
1,2-Dibromo-3-chloropropane	49.15	1.0	ug/L	50.1		98.0	28-160			
1,2-Dibromo-3-chloropropane	49.15	5.0	ug/L	50.1		98.0	50-143			
1,2,4-Trichlorobenzene	54.92	1.0	ug/L	50.4		109	34-154			
Surrogate: Dibromofluoromethane	45.3		ug/L	50.2		90.2	57-128			
Surrogate: Dibromofluoromethane	45.3		ug/L	50.2		90.2	57-128			
Surrogate: Dibromofluoromethane	45.3		ug/L	50.2		90.2	75-136			
Surrogate: 1,2-Dichloroethane-d4	40.2		ug/L	50.4		79.8	49-135			
Surrogate: 1,2-Dichloroethane-d4	40.2		ug/L	50.4		79.8	49-135			

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CERTIFICATE OF ANALYSIS

11J2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1790 - EPA 5030B - EPA 8260D										
LCS (11J1790-BS1)				Prepared: 10/30/25 00:00 Analyzed: 10/30/25 11:06						
Surrogate: 1,2-Dichloroethane-d4	40.2		ug/L	50.4		79.8	49-135			
Surrogate: 1,2-Dichloroethane-d4	40.2		ug/L	50.4		79.8	61-142			
Surrogate: Toluene-d8	49.0		ug/L	50.5		97.1	82-116			
Surrogate: Toluene-d8	49.0		ug/L	50.5		97.1	82-116			
Surrogate: Toluene-d8	49.0		ug/L	50.5		97.1	82-116			
Surrogate: Toluene-d8	49.0		ug/L	50.5		97.1	82-121			
Surrogate: 4-Bromofluorobenzene	48.3		ug/L	50.2		96.3	77-114			
Surrogate: 4-Bromofluorobenzene	48.3		ug/L	50.2		96.3	77-114			
Surrogate: 4-Bromofluorobenzene	48.3		ug/L	50.2		96.3	77-114			
Surrogate: 4-Bromofluorobenzene	48.3		ug/L	50.2		96.3	80-116			
LCS Dup (11J1790-BSD1)				Prepared: 10/30/25 00:00 Analyzed: 10/30/25 11:29						
Dichlorodifluoromethane	51.97	1.0	ug/L	30.3		172	55-141	113	24	Q2, R1
Chloromethane	50.95	1.0	ug/L	30.3		168	45-170	98.9	25	R1
Chloromethane	50.95	1.0	ug/L	30.3		168	63-155	98.9	24	Q2, R1
Vinyl Chloride	31.47	1.0	ug/L	30.2		104	51-157	73.1	23	R1
Vinyl Chloride	31.47	1.0	ug/L	30.2		104	70-154	73.1	25	R1
Bromomethane	30.60	1.0	ug/L	30.1		102	51-161	14.2	22	
Bromomethane	30.60	1.0	ug/L	30.1		102	52-176	14.2	27	
Chloroethane	30.99	1.0	ug/L	30.3		102	68-134	16.3	21	
Chloroethane	30.99	1.0	ug/L	30.3		102	72-148	16.3	25	
Trichlorofluoromethane	31.31	1.0	ug/L	30.3		103	54-146	3.21	23	
Trichlorofluoromethane	31.31	1.0	ug/L	30.3		103	70-152	3.21	26	
Acrolein	49.54	10.0	ug/L	50.3		98.4	10-178	11.8	30	
1,1-Dichloroethylene	48.35	1.0	ug/L	50.1		96.5	63-137	15.1	23	
1,1-Dichloroethylene	48.35	1.0	ug/L	50.1		96.5	70-148	15.1	24	
Acetone	95.11	10.0	ug/L	100		95.1	50-156	16.8	30	
Acetone	95.11	10.0	ug/L	100		95.1	43-172	16.8	30	
Methyl Iodide	115.5	2.0	ug/L	100		116	62-147	2.43	17	
Methyl Iodide	115.5	1.0	ug/L	100		116	69-170	2.43	30	
Carbon Disulfide	100.8	1.0	ug/L	100		101	60-129	11.2	20	
Carbon Disulfide	100.8	1.0	ug/L	100		101	72-162	11.2	24	
Acetonitrile	115.7	10.0	ug/L	100		116	53-151	14.2	30	
Methylene Chloride	50.85	5.0	ug/L	50.1		101	66-126	10.9	14	
Methylene Chloride	50.85	5.0	ug/L	50.1		101	68-142	10.9	21	
Acrylonitrile	48.20	5.0	ug/L	50.4		95.7	33-163	17.7	28	
Acrylonitrile	48.20	5.0	ug/L	50.4		95.7	33-163	17.7	28	
trans-1,2-Dichloroethylene	53.15	1.0	ug/L	50.1		106	68-134	17.0	17	
trans-1,2-Dichloroethylene	53.15	1.0	ug/L	50.1		106	66-148	17.0	27	
1,1-Dichloroethane	49.14	1.0	ug/L	50.1		98.1	69-133	20.2	14	R1
1,1-Dichloroethane	49.14	1.0	ug/L	50.1		98.1	66-143	20.2	24	
Vinyl Acetate	148.6	5.0	ug/L	142		104	69-151	13.5	30	
Vinyl Acetate	148.6	5.0	ug/L	142		104	43-153	13.5	30	
2,2-Dichloropropane	52.00	1.0	ug/L	50.3		103	59-141	16.0	30	

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CERTIFICATE OF ANALYSIS

11J2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1790 - EPA 5030B - EPA 8260D										
LCS Dup (11J1790-BSD1)				Prepared: 10/30/25 00:00 Analyzed: 10/30/25 11:29						
cis-1,2-Dichloroethylene	48.60	1.0	ug/L	50.4		96.5	70-132	11.2	13	
cis-1,2-Dichloroethylene	48.60	1.0	ug/L	50.4		96.5	71-149	11.2	26	
2-Butanone (MEK)	100.2	5.0	ug/L	100		100	57-136	13.8	30	
2-Butanone (MEK)	100.2	10.0	ug/L	100		100	52-159	13.8	27	
Bromochloromethane	47.82	1.0	ug/L	50.4		94.9	73-127	21.4	30	
Bromochloromethane	47.82	1.0	ug/L	50.4		94.9	69-143	21.4	23	
Chloroform	49.32	1.0	ug/L	50.1		98.5	67-130	17.4	13	R1
Chloroform	49.32	1.0	ug/L	50.1		98.5	69-144	17.4	23	
1,1,1-Trichloroethane	47.69	1.0	ug/L	50.1		95.2	63-135	10.2	15	
1,1,1-Trichloroethane	47.69	1.0	ug/L	50.1		95.2	62-129	10.2	24	
1,1-Dichloropropene	46.87	1.0	ug/L	50.5		92.9	66-134	13.3	30	
Carbon Tetrachloride	52.97	1.0	ug/L	50.1		106	67-134	3.38	16	
Carbon Tetrachloride	52.97	1.0	ug/L	50.1		106	63-141	3.38	25	
Benzene	46.99	1.0	ug/L	50.4		93.2	80-118	6.84	13	
Benzene	46.99	1.0	ug/L	50.4		93.2	71-134	6.84	24	
1,2-Dichloroethane	49.56	1.0	ug/L	50.1		99.0	77-126	17.3	16	R1
1,2-Dichloroethane	49.56	1.0	ug/L	50.1		99.0	72-132	17.3	24	
Trichloroethylene	49.55	1.0	ug/L	50.1		98.9	79-120	1.98	16	
Trichloroethylene	49.55	1.0	ug/L	50.1		98.9	71-135	1.98	24	
1,2-Dichloropropane	50.71	1.0	ug/L	50.1		101	80-121	11.9	13	
1,2-Dichloropropane	50.71	1.0	ug/L	50.1		101	69-136	11.9	24	
Dibromomethane	47.71	1.0	ug/L	50.4		94.7	75-122	9.71	30	
Dibromomethane	47.71	1.0	ug/L	50.4		94.7	73-147	9.71	25	
Bromodichloromethane	50.09	1.0	ug/L	50.1		100	79-123	8.71	12	
Bromodichloromethane	50.09	1.0	ug/L	50.1		100	68-129	8.71	22	
cis-1,3-Dichloropropene	46.64	1.0	ug/L	50.1		93.1	77-116	10.4	13	
cis-1,3-Dichloropropene	46.64	1.0	ug/L	50.1		93.1	65-134	10.4	23	
4-Methyl-2-pentanone (MIBK)	95.74	5.0	ug/L	100		95.7	64-138	18.6	30	
4-Methyl-2-pentanone (MIBK)	95.74	5.0	ug/L	100		95.7	58-147	18.6	27	
Toluene	48.96	1.0	ug/L	50.5		97.0	79-118	7.63	14	
Toluene	48.96	1.0	ug/L	50.5		97.0	72-133	7.63	24	
trans-1,3-Dichloropropene	48.32	1.0	ug/L	50.1		96.5	77-116	14.4	17	
trans-1,3-Dichloropropene	48.32	1.0	ug/L	50.1		96.5	67-130	14.4	24	
Ethyl Methacrylate	91.95	10.0	ug/L	100		92.0	63-130	15.0	30	
1,1,2-Trichloroethane	49.79	1.0	ug/L	50.1		99.4	80-117	7.24	18	
1,1,2-Trichloroethane	49.79	1.0	ug/L	50.1		99.4	69-135	7.24	23	
Tetrachloroethylene	46.94	1.0	ug/L	50.1		93.7	77-126	14.1	15	
Tetrachloroethylene	46.94	1.0	ug/L	50.1		93.7	69-130	14.1	25	
1,3-Dichloropropane	76.16	1.0	ug/L	50.4		151	79-131	57.0	30	Q2, R1
2-Hexanone (MBK)	158.1	5.0	ug/L	100		158	60-149	59.1	30	Q2, R1
2-Hexanone (MBK)	158.1	5.0	ug/L	100		158	55-144	59.1	25	Q2, R1
Dibromochloromethane	47.02	1.0	ug/L	50.1		93.9	86-121	3.28	14	
Dibromochloromethane	47.02	1.0	ug/L	50.1		93.9	73-127	3.28	22	

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CERTIFICATE OF ANALYSIS

1IJ2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1790 - EPA 5030B - EPA 8260D										
LCS Dup (1IJ1790-BSD1)										
Prepared: 10/30/25 00:00 Analyzed: 10/30/25 11:29										
1,2-Dibromoethane	48.78	1.0	ug/L	50.2		97.1	77-124	1.90	30	
1,2-Dibromoethane	48.78	1.0	ug/L	50.2		97.1	67-132	1.90	24	
Chlorobenzene	46.20	1.0	ug/L	50.1		92.2	77-124	1.48	14	
Chlorobenzene	46.20	1.0	ug/L	50.1		92.2	72-123	1.48	23	
1,1,1,2-Tetrachloroethane	51.19	1.0	ug/L	50.3		102	84-117	2.60	30	
1,1,1,2-Tetrachloroethane	51.19	1.0	ug/L	50.3		102	73-127	2.60	24	
Ethylbenzene	49.41	1.0	ug/L	50.2		98.5	79-128	5.40	14	
Ethylbenzene	49.41	1.0	ug/L	50.2		98.5	71-127	5.40	26	
Xylenes, total	148.5	2.0	ug/L	151		98.3	81-124	7.53	16	
Xylenes, total	148.5	2.0	ug/L	151		98.3	74-127	7.53	25	
Styrene	55.71	1.0	ug/L	50.4		111	83-124	3.01	30	
Styrene	55.71	1.0	ug/L	50.4		111	66-126	3.01	23	
Bromoform	52.14	1.0	ug/L	50.1		104	81-121	2.41	21	
Bromoform	52.14	1.0	ug/L	50.1		104	68-130	2.41	23	
1,2,3-Trichloropropane	49.48	1.0	ug/L	50.3		98.3	76-120	3.75	30	
1,2,3-Trichloropropane	49.48	1.0	ug/L	50.3		98.3	63-136	3.75	24	
trans-1,4-Dichloro-2-butene	92.37	5.0	ug/L	100		92.4	55-128	20.5	30	
trans-1,4-Dichloro-2-butene	92.37	5.0	ug/L	100		92.4	54-134	20.5	27	
1,1,2,2-Tetrachloroethane	46.61	1.0	ug/L	50.1		93.0	65-138	15.9	27	
1,1,2,2-Tetrachloroethane	46.61	1.0	ug/L	50.1		93.0	61-131	15.9	29	
1,3-Dichlorobenzene	48.15	1.0	ug/L	50.1		96.1	78-122	1.50	13	
1,4-Dichlorobenzene	48.53	1.0	ug/L	50.1		96.8	72-125	1.05	11	
1,4-Dichlorobenzene	48.53	1.0	ug/L	50.1		96.8	70-129	1.05	24	
1,2-Dichlorobenzene	47.49	1.0	ug/L	50.1		94.8	76-124	0.528	13	
1,2-Dichlorobenzene	47.49	1.0	ug/L	50.1		94.8	69-126	0.528	26	
1,2-Dibromo-3-chloropropane	46.73	1.0	ug/L	50.1		93.2	28-160	5.05	30	
1,2-Dibromo-3-chloropropane	46.73	5.0	ug/L	50.1		93.2	50-143	5.05	30	
1,2,4-Trichlorobenzene	51.20	1.0	ug/L	50.4		102	34-154	7.01	30	
Surrogate: Dibromofluoromethane	50.5		ug/L	50.2		101	57-128			
Surrogate: Dibromofluoromethane	50.5		ug/L	50.2		101	57-128			
Surrogate: Dibromofluoromethane	50.5		ug/L	50.2		101	75-136			
Surrogate: 1,2-Dichloroethane-d4	51.9		ug/L	50.4		103	49-135			
Surrogate: 1,2-Dichloroethane-d4	51.9		ug/L	50.4		103	49-135			
Surrogate: 1,2-Dichloroethane-d4	51.9		ug/L	50.4		103	49-135			
Surrogate: 1,2-Dichloroethane-d4	51.9		ug/L	50.4		103	61-142			
Surrogate: Toluene-d8	53.6		ug/L	50.5		106	82-116			
Surrogate: Toluene-d8	53.6		ug/L	50.5		106	82-116			
Surrogate: Toluene-d8	53.6		ug/L	50.5		106	82-116			
Surrogate: Toluene-d8	53.6		ug/L	50.5		106	82-121			
Surrogate: 4-Bromofluorobenzene	51.7		ug/L	50.2		103	77-114			
Surrogate: 4-Bromofluorobenzene	51.7		ug/L	50.2		103	77-114			
Surrogate: 4-Bromofluorobenzene	51.7		ug/L	50.2		103	77-114			
Surrogate: 4-Bromofluorobenzene	51.7		ug/L	50.2		103	80-116			

Matrix Spike (1IJ1790-MS1)

Source: 1IJ2324-01

Prepared: 10/30/25 00:00 Analyzed: 10/30/25 20:15

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CERTIFICATE OF ANALYSIS

1IJ2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1790 - EPA 5030B - EPA 8260D										
Matrix Spike (1IJ1790-MS1)	Source: 1IJ2324-01			Prepared: 10/30/25 00:00 Analyzed: 10/30/25 20:15						
Dichlorodifluoromethane	308.6	10.0	ug/L	303	ND	102	58-130			
Chloromethane	267.6	10.0	ug/L	303	ND	88.3	40-170			
Chloromethane	267.6	10.0	ug/L	303	ND	88.3	61-152			
Vinyl Chloride	159.3	10.0	ug/L	302	ND	52.7	49-154			
Vinyl Chloride	159.3	10.0	ug/L	302	ND	52.7	66-149			M2
Bromomethane	277.9	10.0	ug/L	301	ND	92.3	44-159			
Bromomethane	277.9	10.0	ug/L	301	ND	92.3	43-171			
Chloroethane	272.1	10.0	ug/L	303	ND	89.7	67-132			
Chloroethane	272.1	10.0	ug/L	303	ND	89.7	69-148			
Trichlorofluoromethane	304.8	10.0	ug/L	303	ND	101	56-142			
Trichlorofluoromethane	304.8	10.0	ug/L	303	ND	101	62-163			
Acrolein	429.0	100	ug/L	503	ND	85.2	10-170			
1,1-Dichloroethylene	422.3	10.0	ug/L	501	ND	84.2	63-136			
1,1-Dichloroethylene	422.3	10.0	ug/L	501	ND	84.2	70-148			
Acetone	872.0	100	ug/L	1000	ND	87.2	42-165			
Acetone	872.0	100	ug/L	1000	ND	87.2	45-173			
Methyl Iodide	1010	20.0	ug/L	1000	ND	101	67-133			
Methyl Iodide	1010	10.0	ug/L	1000	ND	101	62-167			
Carbon Disulfide	882.9	10.0	ug/L	1000	ND	88.3	56-129			
Carbon Disulfide	882.9	10.0	ug/L	1000	ND	88.3	71-163			
Acetonitrile	1021	100	ug/L	1000	ND	102	61-141			
Methylene Chloride	457.1	50.0	ug/L	501	ND	91.2	62-129			
Methylene Chloride	457.1	50.0	ug/L	501	ND	91.2	69-140			
Acrylonitrile	411.1	50.0	ug/L	504	ND	81.6	32-159			
Acrylonitrile	411.1	50.0	ug/L	504	ND	81.6	32-159			
trans-1,2-Dichloroethylene	446.1	10.0	ug/L	501	ND	89.1	65-136			
trans-1,2-Dichloroethylene	446.1	10.0	ug/L	501	ND	89.1	69-144			
1,1-Dichloroethane	407.3	10.0	ug/L	501	ND	81.3	64-137			
1,1-Dichloroethane	407.3	10.0	ug/L	501	ND	81.3	70-138			
Vinyl Acetate	1388	50.0	ug/L	1420	ND	97.4	69-148			
Vinyl Acetate	1388	50.0	ug/L	1420	ND	97.4	58-142			
2,2-Dichloropropane	372.8	10.0	ug/L	503	ND	74.1	52-123			
cis-1,2-Dichloroethylene	435.2	10.0	ug/L	504	ND	86.4	65-136			
cis-1,2-Dichloroethylene	435.2	10.0	ug/L	504	ND	86.4	68-151			
2-Butanone (MEK)	866.6	50.0	ug/L	1000	ND	86.7	56-147			
2-Butanone (MEK)	866.6	100	ug/L	1000	ND	86.7	50-160			
Bromochloromethane	395.1	10.0	ug/L	504	ND	78.4	78-121			
Bromochloromethane	395.1	10.0	ug/L	504	ND	78.4	65-143			
Chloroform	428.5	10.0	ug/L	501	ND	85.6	64-133			
Chloroform	428.5	10.0	ug/L	501	ND	85.6	71-143			
1,1,1-Trichloroethane	431.3	10.0	ug/L	501	ND	86.1	61-138			
1,1,1-Trichloroethane	431.3	10.0	ug/L	501	ND	86.1	63-133			
1,1-Dichloropropene	407.4	10.0	ug/L	505	ND	80.7	69-130			

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CERTIFICATE OF ANALYSIS

11J2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1790 - EPA 5030B - EPA 8260D										
Matrix Spike (11J1790-MS1)	Source: 11J2324-01			Prepared: 10/30/25 00:00 Analyzed: 10/30/25 20:15						
Carbon Tetrachloride	503.5	10.0	ug/L	501	ND	101	62-140			
Carbon Tetrachloride	503.5	10.0	ug/L	501	ND	101	63-142			
Benzene	435.1	10.0	ug/L	504	ND	86.3	62-137			
Benzene	435.1	10.0	ug/L	504	ND	86.3	69-133			
1,2-Dichloroethane	429.4	10.0	ug/L	501	ND	85.7	69-135			
1,2-Dichloroethane	429.4	10.0	ug/L	501	ND	85.7	63-138			
Trichloroethylene	471.5	10.0	ug/L	501	ND	94.1	77-123			
Trichloroethylene	471.5	10.0	ug/L	501	ND	94.1	71-133			
1,2-Dichloropropane	459.6	10.0	ug/L	501	ND	91.8	77-126			
1,2-Dichloropropane	459.6	10.0	ug/L	501	ND	91.8	69-132			
Dibromomethane	443.8	10.0	ug/L	504	ND	88.1	83-116			
Dibromomethane	443.8	10.0	ug/L	504	ND	88.1	70-147			
Bromodichloromethane	462.8	10.0	ug/L	501	ND	92.4	73-131			
Bromodichloromethane	462.8	10.0	ug/L	501	ND	92.4	67-130			
cis-1,3-Dichloropropene	406.3	10.0	ug/L	501	ND	81.1	71-115			
cis-1,3-Dichloropropene	406.3	10.0	ug/L	501	ND	81.1	61-126			
4-Methyl-2-pentanone (MIBK)	805.0	50.0	ug/L	1000	ND	80.5	71-138			
4-Methyl-2-pentanone (MIBK)	805.0	50.0	ug/L	1000	ND	80.5	55-147			
Toluene	459.9	10.0	ug/L	505	ND	91.1	76-121			
Toluene	459.9	10.0	ug/L	505	ND	91.1	71-133			
trans-1,3-Dichloropropene	400.3	10.0	ug/L	501	ND	79.9	76-113			
trans-1,3-Dichloropropene	400.3	10.0	ug/L	501	ND	79.9	63-124			
Ethyl Methacrylate	798.0	100	ug/L	1000	ND	79.8	74-121			
1,1,2-Trichloroethane	469.3	10.0	ug/L	501	ND	93.7	80-122			
1,1,2-Trichloroethane	469.3	10.0	ug/L	501	ND	93.7	69-133			
Tetrachloroethylene	532.2	10.0	ug/L	501	ND	106	76-125			
Tetrachloroethylene	532.2	10.0	ug/L	501	ND	106	70-124			
1,3-Dichloropropane	420.8	10.0	ug/L	504	ND	83.4	79-133			
2-Hexanone (MBK)	866.8	50.0	ug/L	1000	ND	86.7	64-154			
2-Hexanone (MBK)	866.8	50.0	ug/L	1000	ND	86.7	53-141			
Dibromochloromethane	482.2	10.0	ug/L	501	ND	96.3	84-122			
Dibromochloromethane	482.2	10.0	ug/L	501	ND	96.3	74-122			
1,2-Dibromoethane	481.3	10.0	ug/L	502	ND	95.8	81-120			
1,2-Dibromoethane	481.3	10.0	ug/L	502	ND	95.8	66-127			
Chlorobenzene	467.7	10.0	ug/L	501	ND	93.4	78-123			
Chlorobenzene	467.7	10.0	ug/L	501	ND	93.4	76-116			
1,1,1,2-Tetrachloroethane	520.9	10.0	ug/L	503	ND	103	83-117			
1,1,1,2-Tetrachloroethane	520.9	10.0	ug/L	503	ND	103	77-121			
Ethylbenzene	462.6	10.0	ug/L	502	ND	92.2	76-130			
Ethylbenzene	462.6	10.0	ug/L	502	ND	92.2	73-124			
Xylenes, total	1374	20.0	ug/L	1510	ND	90.9	77-129			
Xylenes, total	1374	20.0	ug/L	1510	ND	90.9	75-123			
Styrene	541.5	10.0	ug/L	504	ND	108	84-122			

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CERTIFICATE OF ANALYSIS

11J2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1790 - EPA 5030B - EPA 8260D										
Matrix Spike (11J1790-MS1)	Source: 11J2324-01			Prepared: 10/30/25 00:00 Analyzed: 10/30/25 20:15						
Styrene	541.5	10.0	ug/L	504	ND	108	70-120			
Bromoform	514.2	10.0	ug/L	501	ND	103	83-120			
Bromoform	514.2	10.0	ug/L	501	ND	103	70-124			
1,2,3-Trichloropropane	492.0	10.0	ug/L	503	ND	97.7	74-126			
1,2,3-Trichloropropane	492.0	10.0	ug/L	503	ND	97.7	62-135			
trans-1,4-Dichloro-2-butene	670.3	50.0	ug/L	1000	ND	67.0	63-114			
trans-1,4-Dichloro-2-butene	670.3	50.0	ug/L	1000	ND	67.0	50-120			
1,1,2,2-Tetrachloroethane	397.9	10.0	ug/L	501	ND	79.4	66-143			
1,1,2,2-Tetrachloroethane	397.9	10.0	ug/L	501	ND	79.4	63-126			
1,3-Dichlorobenzene	493.8	10.0	ug/L	501	ND	98.6	77-120			
1,4-Dichlorobenzene	492.0	10.0	ug/L	501	ND	98.2	71-123			
1,4-Dichlorobenzene	492.0	10.0	ug/L	501	ND	98.2	72-119			
1,2-Dichlorobenzene	485.3	10.0	ug/L	501	ND	96.9	76-122			
1,2-Dichlorobenzene	485.3	10.0	ug/L	501	ND	96.9	71-117			
1,2-Dibromo-3-chloropropane	489.6	10.0	ug/L	501	ND	97.7	38-161			
1,2-Dibromo-3-chloropropane	489.6	50.0	ug/L	501	ND	97.7	49-134			
1,2,4-Trichlorobenzene	534.7	10.0	ug/L	504	ND	106	33-150			
Surrogate: Dibromofluoromethane	466		ug/L	502		92.7	57-128			
Surrogate: Dibromofluoromethane	466		ug/L	502		92.7	57-128			
Surrogate: Dibromofluoromethane	466		ug/L	502		92.7	75-136			
Surrogate: 1,2-Dichloroethane-d4	414		ug/L	504		82.2	49-135			
Surrogate: 1,2-Dichloroethane-d4	414		ug/L	504		82.2	49-135			
Surrogate: 1,2-Dichloroethane-d4	414		ug/L	504		82.2	49-135			
Surrogate: 1,2-Dichloroethane-d4	414		ug/L	504		82.2	61-142			
Surrogate: Toluene-d8	494		ug/L	505		97.8	82-116			
Surrogate: Toluene-d8	494		ug/L	505		97.8	82-116			
Surrogate: Toluene-d8	494		ug/L	505		97.8	82-116			
Surrogate: Toluene-d8	494		ug/L	505		97.8	82-121			
Surrogate: 4-Bromofluorobenzene	495		ug/L	502		98.7	77-114			
Surrogate: 4-Bromofluorobenzene	495		ug/L	502		98.7	77-114			
Surrogate: 4-Bromofluorobenzene	495		ug/L	502		98.7	77-114			
Surrogate: 4-Bromofluorobenzene	495		ug/L	502		98.7	80-116			
Matrix Spike Dup (11J1790-MSD1)	Source: 11J2324-01			Prepared: 10/30/25 00:00 Analyzed: 10/30/25 20:38						
Dichlorodifluoromethane	294.9	10.0	ug/L	303	ND	97.4	58-130	4.54	30	
Chloromethane	257.3	10.0	ug/L	303	ND	84.9	40-170	3.92	16	
Chloromethane	257.3	10.0	ug/L	303	ND	84.9	61-152	3.92	26	
Vinyl Chloride	152.8	10.0	ug/L	302	ND	50.5	49-154	4.17	17	
Vinyl Chloride	152.8	10.0	ug/L	302	ND	50.5	66-149	4.17	23	M2
Bromomethane	259.2	10.0	ug/L	301	ND	86.1	44-159	6.96	15	
Bromomethane	259.2	10.0	ug/L	301	ND	86.1	43-171	6.96	29	
Chloroethane	249.7	10.0	ug/L	303	ND	82.4	67-132	8.59	15	
Chloroethane	249.7	10.0	ug/L	303	ND	82.4	69-148	8.59	25	
Trichlorofluoromethane	291.5	10.0	ug/L	303	ND	96.2	56-142	4.46	18	
Trichlorofluoromethane	291.5	10.0	ug/L	303	ND	96.2	62-163	4.46	25	

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CERTIFICATE OF ANALYSIS

1IJ2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1790 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IJ1790-MSD1)										
Source: 1IJ2324-01			Prepared: 10/30/25 00:00 Analyzed: 10/30/25 20:38							
Acrolein	411.9	100	ug/L	503	ND	81.8	10-170	4.07	30	
1,1-Dichloroethylene	401.5	10.0	ug/L	501	ND	80.1	63-136	5.05	16	
1,1-Dichloroethylene	401.5	10.0	ug/L	501	ND	80.1	70-148	5.05	22	
Acetone	849.8	100	ug/L	1000	ND	85.0	42-165	2.58	30	
Acetone	849.8	100	ug/L	1000	ND	85.0	45-173	2.58	30	
Methyl Iodide	1066	20.0	ug/L	1000	ND	107	67-133	5.36	14	
Methyl Iodide	1066	10.0	ug/L	1000	ND	107	62-167	5.36	24	
Carbon Disulfide	842.5	10.0	ug/L	1000	ND	84.2	56-129	4.68	16	
Carbon Disulfide	842.5	10.0	ug/L	1000	ND	84.2	71-163	4.68	22	
Acetonitrile	987.9	100	ug/L	1000	ND	98.8	61-141	3.31	10	
Methylene Chloride	438.6	50.0	ug/L	501	ND	87.5	62-129	4.13	14	
Methylene Chloride	438.6	50.0	ug/L	501	ND	87.5	69-140	4.13	19	
Acrylonitrile	407.0	50.0	ug/L	504	ND	80.8	32-159	1.00	30	
Acrylonitrile	407.0	50.0	ug/L	504	ND	80.8	32-159	1.00	30	
trans-1,2-Dichloroethylene	422.3	10.0	ug/L	501	ND	84.3	65-136	5.48	14	
trans-1,2-Dichloroethylene	422.3	10.0	ug/L	501	ND	84.3	69-144	5.48	22	
1,1-Dichloroethane	388.0	10.0	ug/L	501	ND	77.4	64-137	4.85	15	
1,1-Dichloroethane	388.0	10.0	ug/L	501	ND	77.4	70-138	4.85	20	
Vinyl Acetate	1357	50.0	ug/L	1420	ND	95.3	69-148	2.21	16	
Vinyl Acetate	1357	50.0	ug/L	1420	ND	95.3	58-142	2.21	24	
2,2-Dichloropropane	372.1	10.0	ug/L	503	ND	73.9	52-123	0.188	18	
cis-1,2-Dichloroethylene	413.1	10.0	ug/L	504	ND	82.0	65-136	5.21	16	
cis-1,2-Dichloroethylene	413.1	10.0	ug/L	504	ND	82.0	68-151	5.21	22	
2-Butanone (MEK)	822.3	50.0	ug/L	1000	ND	82.2	56-147	5.25	19	
2-Butanone (MEK)	822.3	100	ug/L	1000	ND	82.2	50-160	5.25	23	
Bromochloromethane	379.3	10.0	ug/L	504	ND	75.3	78-121	4.08	16	M2
Bromochloromethane	379.3	10.0	ug/L	504	ND	75.3	65-143	4.08	22	
Chloroform	405.2	10.0	ug/L	501	ND	80.9	64-133	5.59	14	
Chloroform	405.2	10.0	ug/L	501	ND	80.9	71-143	5.59	21	
1,1,1-Trichloroethane	409.0	10.0	ug/L	501	ND	81.6	61-138	5.31	15	
1,1,1-Trichloroethane	409.0	10.0	ug/L	501	ND	81.6	63-133	5.31	23	
1,1-Dichloropropene	391.1	10.0	ug/L	505	ND	77.5	69-130	4.08	16	
Carbon Tetrachloride	486.5	10.0	ug/L	501	ND	97.1	62-140	3.43	15	
Carbon Tetrachloride	486.5	10.0	ug/L	501	ND	97.1	63-142	3.43	22	
Benzene	413.4	10.0	ug/L	504	ND	82.0	62-137	5.11	16	
Benzene	413.4	10.0	ug/L	504	ND	82.0	69-133	5.11	18	
1,2-Dichloroethane	412.0	10.0	ug/L	501	ND	82.3	69-135	4.14	15	
1,2-Dichloroethane	412.0	10.0	ug/L	501	ND	82.3	63-138	4.14	20	
Trichloroethylene	454.0	10.0	ug/L	501	ND	90.6	77-123	3.78	14	
Trichloroethylene	454.0	10.0	ug/L	501	ND	90.6	71-133	3.78	23	
1,2-Dichloropropane	438.9	10.0	ug/L	501	ND	87.6	77-126	4.61	13	
1,2-Dichloropropane	438.9	10.0	ug/L	501	ND	87.6	69-132	4.61	20	
Dibromomethane	431.4	10.0	ug/L	504	ND	85.7	83-116	2.83	13	

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CERTIFICATE OF ANALYSIS

1IJ2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1790 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IJ1790-MSD1)										
Source: 1IJ2324-01			Prepared: 10/30/25 00:00 Analyzed: 10/30/25 20:38							
Dibromomethane	431.4	10.0	ug/L	504	ND	85.7	70-147	2.83	22	
Bromodichloromethane	442.6	10.0	ug/L	501	ND	88.4	73-131	4.46	16	
Bromodichloromethane	442.6	10.0	ug/L	501	ND	88.4	67-130	4.46	21	
cis-1,3-Dichloropropene	402.8	10.0	ug/L	501	ND	80.4	71-115	0.865	15	
cis-1,3-Dichloropropene	402.8	10.0	ug/L	501	ND	80.4	61-126	0.865	21	
4-Methyl-2-pentanone (MIBK)	779.3	50.0	ug/L	1000	ND	77.9	71-138	3.24	10	
4-Methyl-2-pentanone (MIBK)	779.3	50.0	ug/L	1000	ND	77.9	55-147	3.24	23	
Toluene	435.0	10.0	ug/L	505	ND	86.2	76-121	5.56	16	
Toluene	435.0	10.0	ug/L	505	ND	86.2	71-133	5.56	19	
trans-1,3-Dichloropropene	390.4	10.0	ug/L	501	ND	78.0	76-113	2.50	10	
trans-1,3-Dichloropropene	390.4	10.0	ug/L	501	ND	78.0	63-124	2.50	21	
Ethyl Methacrylate	780.5	100	ug/L	1000	ND	78.0	74-121	2.22	10	
1,1,2-Trichloroethane	451.6	10.0	ug/L	501	ND	90.2	80-122	3.84	11	
1,1,2-Trichloroethane	451.6	10.0	ug/L	501	ND	90.2	69-133	3.84	19	
Tetrachloroethylene	509.8	10.0	ug/L	501	ND	102	76-125	4.30	15	
Tetrachloroethylene	509.8	10.0	ug/L	501	ND	102	70-124	4.30	24	
1,3-Dichloropropane	415.9	10.0	ug/L	504	ND	82.5	79-133	1.17	13	
2-Hexanone (MBK)	847.0	50.0	ug/L	1000	ND	84.7	64-154	2.31	12	
2-Hexanone (MBK)	847.0	50.0	ug/L	1000	ND	84.7	53-141	2.31	24	
Dibromochloromethane	476.9	10.0	ug/L	501	ND	95.2	84-122	1.11	13	
Dibromochloromethane	476.9	10.0	ug/L	501	ND	95.2	74-122	1.11	21	
1,2-Dibromoethane	468.5	10.0	ug/L	502	ND	93.3	81-120	2.70	13	
1,2-Dibromoethane	468.5	10.0	ug/L	502	ND	93.3	66-127	2.70	23	
Chlorobenzene	449.6	10.0	ug/L	501	ND	89.8	78-123	3.95	12	
Chlorobenzene	449.6	10.0	ug/L	501	ND	89.8	76-116	3.95	21	
1,1,1,2-Tetrachloroethane	512.5	10.0	ug/L	503	ND	102	83-117	1.63	16	
1,1,1,2-Tetrachloroethane	512.5	10.0	ug/L	503	ND	102	77-121	1.63	25	
Ethylbenzene	446.5	10.0	ug/L	502	ND	89.0	76-130	3.54	13	
Ethylbenzene	446.5	10.0	ug/L	502	ND	89.0	73-124	3.54	20	
Xylenes, total	1326	20.0	ug/L	1510	ND	87.8	77-129	3.50	13	
Xylenes, total	1326	20.0	ug/L	1510	ND	87.8	75-123	3.50	20	
Styrene	526.6	10.0	ug/L	504	ND	105	84-122	2.79	14	
Styrene	526.6	10.0	ug/L	504	ND	105	70-120	2.79	23	
Bromoform	527.4	10.0	ug/L	501	ND	105	83-120	2.53	10	
Bromoform	527.4	10.0	ug/L	501	ND	105	70-124	2.53	22	
1,2,3-Trichloropropane	477.9	10.0	ug/L	503	ND	94.9	74-126	2.91	13	
1,2,3-Trichloropropane	477.9	10.0	ug/L	503	ND	94.9	62-135	2.91	28	
trans-1,4-Dichloro-2-butene	681.6	50.0	ug/L	1000	ND	68.2	63-114	1.67	14	
trans-1,4-Dichloro-2-butene	681.6	50.0	ug/L	1000	ND	68.2	50-120	1.67	26	
1,1,2,2-Tetrachloroethane	384.8	10.0	ug/L	501	ND	76.8	66-143	3.35	16	
1,1,2,2-Tetrachloroethane	384.8	10.0	ug/L	501	ND	76.8	63-126	3.35	24	
1,3-Dichlorobenzene	467.4	10.0	ug/L	501	ND	93.3	77-120	5.49	18	
1,4-Dichlorobenzene	464.8	10.0	ug/L	501	ND	92.7	71-123	5.69	16	

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1IJ2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1790 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IJ1790-MSD1)	Source: 1IJ2324-01			Prepared: 10/30/25 00:00 Analyzed: 10/30/25 20:38						
1,4-Dichlorobenzene	464.8	10.0	ug/L	501	ND	92.7	72-119	5.69	24	
1,2-Dichlorobenzene	463.6	10.0	ug/L	501	ND	92.5	76-122	4.57	17	
1,2-Dichlorobenzene	463.6	10.0	ug/L	501	ND	92.5	71-117	4.57	24	
1,2-Dibromo-3-chloropropane	480.0	10.0	ug/L	501	ND	95.8	38-161	1.98	27	
1,2-Dibromo-3-chloropropane	480.0	50.0	ug/L	501	ND	95.8	49-134	1.98	28	
1,2,4-Trichlorobenzene	526.0	10.0	ug/L	504	ND	104	33-150	1.64	29	
Surrogate: Dibromofluoromethane	468		ug/L	502		93.2	57-128			
Surrogate: Dibromofluoromethane	468		ug/L	502		93.2	57-128			
Surrogate: Dibromofluoromethane	468		ug/L	502		93.2	75-136			
Surrogate: 1,2-Dichloroethane-d4	416		ug/L	504		82.6	49-135			
Surrogate: 1,2-Dichloroethane-d4	416		ug/L	504		82.6	49-135			
Surrogate: 1,2-Dichloroethane-d4	416		ug/L	504		82.6	49-135			
Surrogate: 1,2-Dichloroethane-d4	416		ug/L	504		82.6	61-142			
Surrogate: Toluene-d8	493		ug/L	505		97.6	82-116			
Surrogate: Toluene-d8	493		ug/L	505		97.6	82-116			
Surrogate: Toluene-d8	493		ug/L	505		97.6	82-116			
Surrogate: Toluene-d8	493		ug/L	505		97.6	82-121			
Surrogate: 4-Bromofluorobenzene	486		ug/L	502		97.0	77-114			
Surrogate: 4-Bromofluorobenzene	486		ug/L	502		97.0	77-114			
Surrogate: 4-Bromofluorobenzene	486		ug/L	502		97.0	77-114			
Surrogate: 4-Bromofluorobenzene	486		ug/L	502		97.0	80-116			
Batch 1IJ1857 - EPA 5030B - EPA 8260D										
Blank (1IJ1857-BLK1)	Prepared: 10/31/25 00:00 Analyzed: 10/31/25 10:34									
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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1IJ2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1857 - EPA 5030B - EPA 8260D										
Blank (1IJ1857-BLK1)				Prepared: 10/31/25 00:00 Analyzed: 10/31/25 10:34						
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	46.0		ug/L	50.2		91.6	57-128			
Surrogate: Dibromofluoromethane	46.0		ug/L	50.2		91.6	75-136			
Surrogate: 1,2-Dichloroethane-d4	41.1		ug/L	50.4		81.7	49-135			
Surrogate: 1,2-Dichloroethane-d4	41.1		ug/L	50.4		81.7	61-142			
Surrogate: Toluene-d8	49.0		ug/L	50.5		97.0	82-116			
Surrogate: Toluene-d8	49.0		ug/L	50.5		97.0	82-121			
Surrogate: 4-Bromofluorobenzene	46.2		ug/L	50.2		92.2	77-114			
Surrogate: 4-Bromofluorobenzene	46.2		ug/L	50.2		92.2	80-116			
LCS (1IJ1857-BS1)				Prepared: 10/31/25 00:00 Analyzed: 10/31/25 09:25						
Chloromethane	25.86	1.0	ug/L	30.3		85.3	63-155			
Vinyl Chloride	15.30	1.0	ug/L	30.2		50.6	70-154			Q3
Bromomethane	25.24	1.0	ug/L	30.1		83.8	52-176			
Chloroethane	25.20	1.0	ug/L	30.3		83.1	72-148			
Trichlorofluoromethane	28.79	1.0	ug/L	30.3		95.0	70-152			
1,1-Dichloroethylene	39.65	1.0	ug/L	50.1		79.1	70-148			

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1857 - EPA 5030B - EPA 8260D										
LCS (1IJ1857-BS1)										
Prepared: 10/31/25 00:00 Analyzed: 10/31/25 09:25										
Acetone	75.91	10.0	ug/L	100		75.9	43-172			
Methyl Iodide	109.7	1.0	ug/L	100		110	69-170			
Carbon Disulfide	84.40	1.0	ug/L	100		84.4	72-162			
Methylene Chloride	44.17	5.0	ug/L	50.1		88.2	68-142			
Acrylonitrile	39.80	5.0	ug/L	50.4		79.0	33-163			
trans-1,2-Dichloroethylene	41.97	1.0	ug/L	50.1		83.8	66-148			
1,1-Dichloroethane	38.51	1.0	ug/L	50.1		76.9	66-143			
Vinyl Acetate	139.7	5.0	ug/L	142		98.0	43-153			
cis-1,2-Dichloroethylene	41.11	1.0	ug/L	50.4		81.6	71-149			
2-Butanone (MEK)	83.74	10.0	ug/L	100		83.7	52-159			
Bromochloromethane	37.95	1.0	ug/L	50.4		75.3	69-143			
Chloroform	39.81	1.0	ug/L	50.1		79.5	69-144			
1,1,1-Trichloroethane	41.10	1.0	ug/L	50.1		82.0	62-129			
Carbon Tetrachloride	48.98	1.0	ug/L	50.1		97.8	63-141			
Benzene	41.36	1.0	ug/L	50.4		82.0	71-134			
1,2-Dichloroethane	41.44	1.0	ug/L	50.1		82.7	72-132			
Trichloroethylene	45.28	1.0	ug/L	50.1		90.4	71-135			
1,2-Dichloropropane	43.83	1.0	ug/L	50.1		87.5	69-136			
Dibromomethane	43.11	1.0	ug/L	50.4		85.6	73-147			
Bromodichloromethane	44.00	1.0	ug/L	50.1		87.8	68-129			
cis-1,3-Dichloropropene	40.32	1.0	ug/L	50.1		80.5	65-134			
4-Methyl-2-pentanone (MIBK)	79.47	5.0	ug/L	100		79.5	58-147			
Toluene	43.66	1.0	ug/L	50.5		86.5	72-133			
trans-1,3-Dichloropropene	40.46	1.0	ug/L	50.1		80.8	67-130			
1,1,2-Trichloroethane	45.72	1.0	ug/L	50.1		91.3	69-135			
Tetrachloroethylene	51.50	1.0	ug/L	50.1		103	69-130			
2-Hexanone (MBK)	85.40	5.0	ug/L	100		85.4	55-144			
Dibromochloromethane	47.59	1.0	ug/L	50.1		95.0	73-127			
1,2-Dibromoethane	47.25	1.0	ug/L	50.2		94.1	67-132			
Chlorobenzene	44.94	1.0	ug/L	50.1		89.7	72-123			
1,1,1,2-Tetrachloroethane	51.01	1.0	ug/L	50.3		101	73-127			
Ethylbenzene	44.15	1.0	ug/L	50.2		88.0	71-127			
Xylenes, total	131.3	2.0	ug/L	151		86.9	74-127			
Styrene	52.26	1.0	ug/L	50.4		104	66-126			
Bromoform	52.08	1.0	ug/L	50.1		104	68-130			
1,2,3-Trichloropropane	47.51	1.0	ug/L	50.3		94.4	63-136			
trans-1,4-Dichloro-2-butene	73.12	5.0	ug/L	100		73.1	54-134			
1,1,2,2-Tetrachloroethane	38.82	1.0	ug/L	50.1		77.5	61-131			
1,4-Dichlorobenzene	47.24	1.0	ug/L	50.1		94.2	70-129			
1,2-Dichlorobenzene	46.43	1.0	ug/L	50.1		92.7	69-126			
1,2-Dibromo-3-chloropropane	46.97	5.0	ug/L	50.1		93.7	50-143			
Surrogate: Dibromofluoromethane	45.7		ug/L	50.2		91.0	57-128			

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CERTIFICATE OF ANALYSIS

1IJ2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1857 - EPA 5030B - EPA 8260D										
LCS (1IJ1857-BS1)										
				Prepared: 10/31/25 00:00 Analyzed: 10/31/25 09:25						
Surrogate: Dibromofluoromethane	45.7		ug/L	50.2		91.0	75-136			
Surrogate: 1,2-Dichloroethane-d4	40.7		ug/L	50.4		80.8	49-135			
Surrogate: 1,2-Dichloroethane-d4	40.7		ug/L	50.4		80.8	61-142			
Surrogate: Toluene-d8	49.1		ug/L	50.5		97.2	82-116			
Surrogate: Toluene-d8	49.1		ug/L	50.5		97.2	82-121			
Surrogate: 4-Bromofluorobenzene	49.2		ug/L	50.2		98.0	77-114			
Surrogate: 4-Bromofluorobenzene	49.2		ug/L	50.2		98.0	80-116			
LCS Dup (1IJ1857-BSD1)										
				Prepared: 10/31/25 00:00 Analyzed: 10/31/25 09:48						
Chloromethane	25.53	1.0	ug/L	30.3		84.2	63-155	1.28	24	
Vinyl Chloride	15.34	1.0	ug/L	30.2		50.7	70-154	0.261	25	Q3
Bromomethane	24.70	1.0	ug/L	30.1		82.0	52-176	2.16	27	
Chloroethane	25.11	1.0	ug/L	30.3		82.8	72-148	0.358	25	
Trichlorofluoromethane	28.69	1.0	ug/L	30.3		94.7	70-152	0.348	26	
1,1-Dichloroethylene	39.50	1.0	ug/L	50.1		78.8	70-148	0.379	24	
Acetone	75.07	10.0	ug/L	100		75.1	43-172	1.11	30	
Methyl Iodide	113.8	1.0	ug/L	100		114	69-170	3.71	30	
Carbon Disulfide	84.14	1.0	ug/L	100		84.1	72-162	0.309	24	
Methylene Chloride	42.98	5.0	ug/L	50.1		85.8	68-142	2.73	21	
Acrylonitrile	39.19	5.0	ug/L	50.4		77.8	33-163	1.54	28	
trans-1,2-Dichloroethylene	41.96	1.0	ug/L	50.1		83.8	66-148	0.0238	27	
1,1-Dichloroethane	38.27	1.0	ug/L	50.1		76.4	66-143	0.625	24	
Vinyl Acetate	134.0	5.0	ug/L	142		94.0	43-153	4.17	30	
cis-1,2-Dichloroethylene	41.01	1.0	ug/L	50.4		81.4	71-149	0.244	26	
2-Butanone (MEK)	82.16	10.0	ug/L	100		82.2	52-159	1.90	27	
Bromochloromethane	36.98	1.0	ug/L	50.4		73.4	69-143	2.59	23	
Chloroform	39.98	1.0	ug/L	50.1		79.8	69-144	0.426	23	
1,1,1-Trichloroethane	41.50	1.0	ug/L	50.1		82.8	62-129	0.969	24	
Carbon Tetrachloride	49.28	1.0	ug/L	50.1		98.4	63-141	0.611	25	
Benzene	41.67	1.0	ug/L	50.4		82.6	71-134	0.747	24	
1,2-Dichloroethane	41.15	1.0	ug/L	50.1		82.2	72-132	0.702	24	
Trichloroethylene	45.80	1.0	ug/L	50.1		91.4	71-135	1.14	24	
1,2-Dichloropropane	43.30	1.0	ug/L	50.1		86.4	69-136	1.22	24	
Dibromomethane	43.57	1.0	ug/L	50.4		86.5	73-147	1.06	25	
Bromodichloromethane	44.91	1.0	ug/L	50.1		89.7	68-129	2.05	22	
cis-1,3-Dichloropropene	41.14	1.0	ug/L	50.1		82.1	65-134	2.01	23	
4-Methyl-2-pentanone (MIBK)	78.30	5.0	ug/L	100		78.3	58-147	1.48	27	
Toluene	44.10	1.0	ug/L	50.5		87.4	72-133	1.00	24	
trans-1,3-Dichloropropene	40.48	1.0	ug/L	50.1		80.8	67-130	0.0494	24	
1,1,2-Trichloroethane	45.00	1.0	ug/L	50.1		89.8	69-135	1.59	23	
Tetrachloroethylene	51.65	1.0	ug/L	50.1		103	69-130	0.291	25	
2-Hexanone (MBK)	83.60	5.0	ug/L	100		83.6	55-144	2.13	25	
Dibromochloromethane	46.75	1.0	ug/L	50.1		93.4	73-127	1.78	22	
1,2-Dibromoethane	46.24	1.0	ug/L	50.2		92.1	67-132	2.16	24	

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CERTIFICATE OF ANALYSIS

1IJ2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1857 - EPA 5030B - EPA 8260D										
LCS Dup (1IJ1857-BSD1)										
Prepared: 10/31/25 00:00 Analyzed: 10/31/25 09:48										
Chlorobenzene	45.09	1.0	ug/L	50.1		90.0	72-123	0.333	23	
1,1,1,2-Tetrachloroethane	50.60	1.0	ug/L	50.3		101	73-127	0.807	24	
Ethylbenzene	44.54	1.0	ug/L	50.2		88.8	71-127	0.879	26	
Xylenes, total	132.0	2.0	ug/L	151		87.4	74-127	0.554	25	
Styrene	52.37	1.0	ug/L	50.4		104	66-126	0.210	23	
Bromoform	52.61	1.0	ug/L	50.1		105	68-130	1.01	23	
1,2,3-Trichloropropane	45.11	1.0	ug/L	50.3		89.6	63-136	5.18	24	
trans-1,4-Dichloro-2-butene	71.10	5.0	ug/L	100		71.1	54-134	2.80	27	
1,1,2,2-Tetrachloroethane	38.23	1.0	ug/L	50.1		76.3	61-131	1.53	29	
1,4-Dichlorobenzene	48.02	1.0	ug/L	50.1		95.8	70-129	1.64	24	
1,2-Dichlorobenzene	46.93	1.0	ug/L	50.1		93.7	69-126	1.07	26	
1,2-Dibromo-3-chloropropane	49.55	5.0	ug/L	50.1		98.8	50-143	5.35	30	
Surrogate: Dibromofluoromethane	45.7		ug/L	50.2		91.0	57-128			
Surrogate: Dibromofluoromethane	45.7		ug/L	50.2		91.0	75-136			
Surrogate: 1,2-Dichloroethane-d4	40.4		ug/L	50.4		80.3	49-135			
Surrogate: 1,2-Dichloroethane-d4	40.4		ug/L	50.4		80.3	61-142			
Surrogate: Toluene-d8	49.1		ug/L	50.5		97.3	82-116			
Surrogate: Toluene-d8	49.1		ug/L	50.5		97.3	82-121			
Surrogate: 4-Bromofluorobenzene	48.5		ug/L	50.2		96.6	77-114			
Surrogate: 4-Bromofluorobenzene	48.5		ug/L	50.2		96.6	80-116			
Matrix Spike (1IJ1857-MS1)										
Source: 1IJ2328-01 Prepared: 10/31/25 00:00 Analyzed: 10/31/25 15:08										
Chloromethane	266.9	10.0	ug/L	303	ND	88.0	61-152			
Vinyl Chloride	160.1	10.0	ug/L	302	ND	52.9	66-149			M2
Bromomethane	260.1	10.0	ug/L	301	ND	86.4	43-171			
Chloroethane	257.1	10.0	ug/L	303	ND	84.8	69-148			
Trichlorofluoromethane	301.5	10.0	ug/L	303	ND	99.5	62-163			
1,1-Dichloroethylene	414.2	10.0	ug/L	501	ND	82.6	70-148			
Acetone	1099	100	ug/L	1000	ND	110	45-173			
Methyl Iodide	1065	10.0	ug/L	1000	ND	106	62-167			
Carbon Disulfide	871.8	10.0	ug/L	1000	ND	87.2	71-163			
Methylene Chloride	452.3	50.0	ug/L	501	ND	90.3	69-140			
Acrylonitrile	409.6	50.0	ug/L	504	ND	81.4	32-159			
trans-1,2-Dichloroethylene	438.5	10.0	ug/L	501	ND	87.5	69-144			
1,1-Dichloroethane	406.9	10.0	ug/L	501	ND	81.2	70-138			
Vinyl Acetate	1423	50.0	ug/L	1420	ND	99.9	58-142			
cis-1,2-Dichloroethylene	431.3	10.0	ug/L	504	ND	85.7	68-151			
2-Butanone (MEK)	933.9	100	ug/L	1000	ND	93.4	50-160			
Bromochloromethane	390.9	10.0	ug/L	504	ND	77.6	65-143			
Chloroform	422.8	10.0	ug/L	501	ND	84.4	71-143			
1,1,1-Trichloroethane	429.4	10.0	ug/L	501	ND	85.7	63-133			
Carbon Tetrachloride	505.0	10.0	ug/L	501	ND	101	63-142			
Benzene	431.2	10.0	ug/L	504	ND	85.5	69-133			
1,2-Dichloroethane	427.4	10.0	ug/L	501	ND	85.3	63-138			

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CERTIFICATE OF ANALYSIS

11J2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1857 - EPA 5030B - EPA 8260D										
Matrix Spike (11J1857-MS1)	Source: 11J2328-01			Prepared: 10/31/25 00:00 Analyzed: 10/31/25 15:08						
Trichloroethylene	475.8	10.0	ug/L	501	ND	95.0	71-133			
1,2-Dichloropropane	449.5	10.0	ug/L	501	ND	89.7	69-132			
Dibromomethane	441.4	10.0	ug/L	504	ND	87.6	70-147			
Bromodichloromethane	454.3	10.0	ug/L	501	ND	90.7	67-130			
cis-1,3-Dichloropropene	411.1	10.0	ug/L	501	ND	82.1	61-126			
4-Methyl-2-pentanone (MIBK)	802.9	50.0	ug/L	1000	ND	80.3	55-147			
Toluene	456.2	10.0	ug/L	505	ND	90.4	71-133			
trans-1,3-Dichloropropene	402.2	10.0	ug/L	501	ND	80.3	63-124			
1,1,2-Trichloroethane	467.3	10.0	ug/L	501	ND	93.3	69-133			
Tetrachloroethylene	534.4	10.0	ug/L	501	ND	107	70-124			
2-Hexanone (MBK)	911.1	50.0	ug/L	1000	ND	91.1	53-141			
Dibromochloromethane	473.0	10.0	ug/L	501	ND	94.5	74-122			
1,2-Dibromoethane	472.4	10.0	ug/L	502	ND	94.1	66-127			
Chlorobenzene	458.3	10.0	ug/L	501	ND	91.5	76-116			
1,1,1,2-Tetrachloroethane	504.3	10.0	ug/L	503	ND	100	77-121			
Ethylbenzene	458.9	10.0	ug/L	502	ND	91.5	73-124			
Xylenes, total	1364	20.0	ug/L	1510	ND	90.3	75-123			
Styrene	534.0	10.0	ug/L	504	ND	106	70-120			
Bromoform	516.5	10.0	ug/L	501	ND	103	70-124			
1,2,3-Trichloropropane	471.8	10.0	ug/L	503	ND	93.7	62-135			
trans-1,4-Dichloro-2-butene	737.1	50.0	ug/L	1000	ND	73.7	50-120			
1,1,2,2-Tetrachloroethane	392.6	10.0	ug/L	501	ND	78.4	63-126			
1,4-Dichlorobenzene	490.7	10.0	ug/L	501	ND	97.9	72-119			
1,2-Dichlorobenzene	478.3	10.0	ug/L	501	ND	95.5	71-117			
1,2-Dibromo-3-chloropropane	488.8	50.0	ug/L	501	ND	97.5	49-134			
Surrogate: Dibromofluoromethane	462		ug/L	502		92.0	57-128			
Surrogate: Dibromofluoromethane	462		ug/L	502		92.0	75-136			
Surrogate: 1,2-Dichloroethane-d4	414		ug/L	504		82.2	49-135			
Surrogate: 1,2-Dichloroethane-d4	414		ug/L	504		82.2	61-142			
Surrogate: Toluene-d8	496		ug/L	505		98.3	82-116			
Surrogate: Toluene-d8	496		ug/L	505		98.3	82-121			
Surrogate: 4-Bromofluorobenzene	479		ug/L	502		95.4	77-114			
Surrogate: 4-Bromofluorobenzene	479		ug/L	502		95.4	80-116			
Matrix Spike Dup (11J1857-MSD1)	Source: 11J2328-01			Prepared: 10/31/25 00:00 Analyzed: 10/31/25 15:31						
Chloromethane	248.1	10.0	ug/L	303	ND	81.8	61-152	7.30	26	
Vinyl Chloride	150.7	10.0	ug/L	302	ND	49.8	66-149	6.05	23	M2
Bromomethane	250.8	10.0	ug/L	301	ND	83.3	43-171	3.64	29	
Chloroethane	247.8	10.0	ug/L	303	ND	81.7	69-148	3.68	25	
Trichlorofluoromethane	284.8	10.0	ug/L	303	ND	94.0	62-163	5.70	25	
1,1-Dichloroethylene	388.8	10.0	ug/L	501	ND	77.6	70-148	6.33	22	
Acetone	1058	100	ug/L	1000	ND	106	45-173	3.80	30	
Methyl Iodide	1101	10.0	ug/L	1000	ND	110	62-167	3.38	24	
Carbon Disulfide	806.4	10.0	ug/L	1000	ND	80.6	71-163	7.79	22	

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CERTIFICATE OF ANALYSIS

11J2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1857 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (11J1857-MSD1) Source: 11J2328-01 Prepared: 10/31/25 00:00 Analyzed: 10/31/25 15:31										
Methylene Chloride	430.8	50.0	ug/L	501	ND	86.0	69-140	4.87	19	
Acrylonitrile	399.1	50.0	ug/L	504	ND	79.3	32-159	2.60	30	
trans-1,2-Dichloroethylene	415.3	10.0	ug/L	501	ND	82.9	69-144	5.43	22	
1,1-Dichloroethane	382.4	10.0	ug/L	501	ND	76.3	70-138	6.21	20	
Vinyl Acetate	1400	50.0	ug/L	1420	ND	98.2	58-142	1.64	24	
cis-1,2-Dichloroethylene	408.2	10.0	ug/L	504	ND	81.1	68-151	5.50	22	
2-Butanone (MEK)	913.4	100	ug/L	1000	ND	91.3	50-160	2.22	23	
Bromochloromethane	374.4	10.0	ug/L	504	ND	74.3	65-143	4.31	22	
Chloroform	400.9	10.0	ug/L	501	ND	80.0	71-143	5.32	21	
1,1,1-Trichloroethane	405.9	10.0	ug/L	501	ND	81.0	63-133	5.63	23	
Carbon Tetrachloride	478.1	10.0	ug/L	501	ND	95.4	63-142	5.47	22	
Benzene	411.7	10.0	ug/L	504	ND	81.6	69-133	4.63	18	
1,2-Dichloroethane	411.6	10.0	ug/L	501	ND	82.2	63-138	3.77	20	
Trichloroethylene	447.5	10.0	ug/L	501	ND	89.3	71-133	6.13	23	
1,2-Dichloropropane	436.4	10.0	ug/L	501	ND	87.1	69-132	2.96	20	
Dibromomethane	428.7	10.0	ug/L	504	ND	85.1	70-147	2.92	22	
Bromodichloromethane	444.0	10.0	ug/L	501	ND	88.6	67-130	2.29	21	
cis-1,3-Dichloropropene	405.5	10.0	ug/L	501	ND	81.0	61-126	1.37	21	
4-Methyl-2-pentanone (MIBK)	793.3	50.0	ug/L	1000	ND	79.3	55-147	1.20	23	
Toluene	435.1	10.0	ug/L	505	ND	86.2	71-133	4.73	19	
trans-1,3-Dichloropropene	400.5	10.0	ug/L	501	ND	80.0	63-124	0.424	21	
1,1,2-Trichloroethane	456.4	10.0	ug/L	501	ND	91.1	69-133	2.36	19	
Tetrachloroethylene	501.8	10.0	ug/L	501	ND	100	70-124	6.29	24	
2-Hexanone (MBK)	904.4	50.0	ug/L	1000	ND	90.4	53-141	0.738	24	
Dibromochloromethane	468.2	10.0	ug/L	501	ND	93.5	74-122	1.02	21	
1,2-Dibromoethane	461.6	10.0	ug/L	502	ND	91.9	66-127	2.31	23	
Chlorobenzene	440.7	10.0	ug/L	501	ND	88.0	76-116	3.92	21	
1,1,1,2-Tetrachloroethane	507.1	10.0	ug/L	503	ND	101	77-121	0.554	25	
Ethylbenzene	432.6	10.0	ug/L	502	ND	86.2	73-124	5.90	20	
Xylenes, total	1286	20.0	ug/L	1510	ND	85.1	75-123	5.85	20	
Styrene	516.0	10.0	ug/L	504	ND	102	70-120	3.43	23	
Bromoform	521.2	10.0	ug/L	501	ND	104	70-124	0.906	22	
1,2,3-Trichloropropane	469.0	10.0	ug/L	503	ND	93.2	62-135	0.595	28	
trans-1,4-Dichloro-2-butene	726.4	50.0	ug/L	1000	ND	72.6	50-120	1.46	26	
1,1,2,2-Tetrachloroethane	384.0	10.0	ug/L	501	ND	76.6	63-126	2.21	24	
1,4-Dichlorobenzene	469.8	10.0	ug/L	501	ND	93.7	72-119	4.35	24	
1,2-Dichlorobenzene	460.5	10.0	ug/L	501	ND	91.9	71-117	3.79	24	
1,2-Dibromo-3-chloropropane	472.8	50.0	ug/L	501	ND	94.3	49-134	3.33	28	
Surrogate: Dibromofluoromethane	460		ug/L	502		91.6	57-128			
Surrogate: Dibromofluoromethane	460		ug/L	502		91.6	75-136			
Surrogate: 1,2-Dichloroethane-d4	411		ug/L	504		81.7	49-135			
Surrogate: 1,2-Dichloroethane-d4	411		ug/L	504		81.7	61-142			
Surrogate: Toluene-d8	497		ug/L	505		98.5	82-116			

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CERTIFICATE OF ANALYSIS

1IJ2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1857 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IJ1857-MSD1)	Source: 1IJ2328-01			Prepared: 10/31/25 00:00 Analyzed: 10/31/25 15:31						
Surrogate: Toluene-d8	497		ug/L	505		98.5	82-121			
Surrogate: 4-Bromofluorobenzene	485		ug/L	502		96.6	77-114			
Surrogate: 4-Bromofluorobenzene	485		ug/L	502		96.6	80-116			
Batch 1IK0326 - EPA 5030B - EPA 8260D										
Blank (1IK0326-BLK1)	Prepared: 11/06/25 00:00 Analyzed: 11/06/25 10:19									
Carbon Disulfide	<1.0	1.0	ug/L							
Surrogate: Dibromofluoromethane	53.4		ug/L	50.2		106	75-136			
Surrogate: 1,2-Dichloroethane-d4	49.0		ug/L	50.4		97.4	61-142			
Surrogate: Toluene-d8	49.0		ug/L	50.5		97.1	82-121			
Surrogate: 4-Bromofluorobenzene	46.6		ug/L	50.2		92.8	80-116			
LCS (1IK0326-BS1)	Prepared: 11/06/25 00:00 Analyzed: 11/06/25 09:10									
Carbon Disulfide	103.7	1.0	ug/L	100		104	72-162			
Surrogate: Dibromofluoromethane	53.7		ug/L	50.2		107	75-136			
Surrogate: 1,2-Dichloroethane-d4	47.9		ug/L	50.4		95.1	61-142			
Surrogate: Toluene-d8	49.3		ug/L	50.5		97.6	82-121			
Surrogate: 4-Bromofluorobenzene	48.6		ug/L	50.2		96.8	80-116			
LCS Dup (1IK0326-BSD1)	Prepared: 11/06/25 00:00 Analyzed: 11/06/25 09:33									
Carbon Disulfide	105.7	1.0	ug/L	100		106	72-162	1.97	24	
Surrogate: Dibromofluoromethane	53.6		ug/L	50.2		107	75-136			
Surrogate: 1,2-Dichloroethane-d4	47.3		ug/L	50.4		93.8	61-142			
Surrogate: Toluene-d8	49.1		ug/L	50.5		97.2	82-121			
Surrogate: 4-Bromofluorobenzene	48.2		ug/L	50.2		96.1	80-116			
Matrix Spike (1IK0326-MS1)	Source: 3IJ0165-01			Prepared: 11/06/25 00:00 Analyzed: 11/07/25 11:12						
Carbon Disulfide	857.0	10.0	ug/L	1000	ND	85.7	71-163			
Surrogate: Dibromofluoromethane	171		ug/L	502		34.1	75-136			S2
Surrogate: 1,2-Dichloroethane-d4	429		ug/L	504		85.2	61-142			
Surrogate: Toluene-d8	501		ug/L	505		99.3	82-121			
Surrogate: 4-Bromofluorobenzene	485		ug/L	502		96.7	80-116			
Matrix Spike Dup (1IK0326-MSD1)	Source: 3IJ0165-01			Prepared: 11/06/25 00:00 Analyzed: 11/07/25 11:35						
Carbon Disulfide	823.9	10.0	ug/L	1000	ND	82.4	71-163	3.94	22	
Surrogate: Dibromofluoromethane	176		ug/L	502		35.1	75-136			S2
Surrogate: 1,2-Dichloroethane-d4	432		ug/L	504		85.7	61-142			
Surrogate: Toluene-d8	497		ug/L	505		98.4	82-121			
Surrogate: 4-Bromofluorobenzene	480		ug/L	502		95.7	80-116			

Batch 1IK0381 - EPA 5030B - EPA 8260D

Blank (1IK0381-BLK1)	Prepared: 11/07/25 00:00 Analyzed: 11/07/25 14:15									

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CERTIFICATE OF ANALYSIS

1IJ2324

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IK0381 - EPA 5030B - EPA 8260D										
Blank (1IK0381-BLK1) Prepared: 11/07/25 00:00 Analyzed: 11/07/25 14:15										
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	16.0		ug/L	50.2		31.9	57-128			S2
Surrogate: 1,2-Dichloroethane-d4	48.7		ug/L	50.4		96.8	49-135			
Surrogate: Toluene-d8	47.4		ug/L	50.5		94.0	82-116			
Surrogate: 4-Bromofluorobenzene	53.0		ug/L	50.2		106	77-114			
LCS (1IK0381-BS1) Prepared: 11/07/25 00:00 Analyzed: 11/07/25 13:07										
Allyl chloride	43.20	1.0	ug/L	50.0		86.4	56-152			
Chloroprene	63.69	1.0	ug/L	50.0		127	58-152			
Methacrylonitrile	55.36	1.0	ug/L	50.0		111	67-129			
Methyl Methacrylate	56.26	1.0	ug/L	50.0		113	73-122			
Propionitrile	53.18	10.0	ug/L	50.0		106	57-157			
Surrogate: Dibromofluoromethane	17.2		ug/L	50.2		34.3	57-128			S2
Surrogate: 1,2-Dichloroethane-d4	47.9		ug/L	50.4		95.1	49-135			
Surrogate: Toluene-d8	47.5		ug/L	50.5		94.2	82-116			
Surrogate: 4-Bromofluorobenzene	50.2		ug/L	50.2		100	77-114			
LCS Dup (1IK0381-BSD1) Prepared: 11/07/25 00:00 Analyzed: 11/07/25 13:30										
Allyl chloride	42.07	1.0	ug/L	50.0		84.1	56-152	2.65	16	
Chloroprene	61.68	1.0	ug/L	50.0		123	58-152	3.21	30	
Methacrylonitrile	56.22	1.0	ug/L	50.0		112	67-129	1.54	30	
Methyl Methacrylate	56.28	1.0	ug/L	50.0		113	73-122	0.0355	17	
Propionitrile	56.48	10.0	ug/L	50.0		113	57-157	6.02	30	
Surrogate: Dibromofluoromethane	18.2		ug/L	50.2		36.3	57-128			S2
Surrogate: 1,2-Dichloroethane-d4	48.4		ug/L	50.4		96.2	49-135			
Surrogate: Toluene-d8	47.8		ug/L	50.5		94.6	82-116			
Surrogate: 4-Bromofluorobenzene	49.4		ug/L	50.2		98.4	77-114			
Matrix Spike (1IK0381-MS1) Source: 1IJ2324-06 Prepared: 11/07/25 00:00 Analyzed: 11/07/25 15:01										
Allyl chloride	455.6	10.0	ug/L	500	ND	91.1	66-136			
Chloroprene	655.6	10.0	ug/L	500	ND	131	67-139			
Methacrylonitrile	568.3	10.0	ug/L	500	ND	114	60-140			
Methyl Methacrylate	567.1	10.0	ug/L	500	ND	113	86-112			Q7
Propionitrile	579.2	100	ug/L	500	ND	116	52-182			
Surrogate: Dibromofluoromethane	226		ug/L	502		45.1	57-128			S2
Surrogate: 1,2-Dichloroethane-d4	486		ug/L	504		96.6	49-135			
Surrogate: Toluene-d8	481		ug/L	505		95.3	82-116			
Surrogate: 4-Bromofluorobenzene	509		ug/L	502		101	77-114			
Matrix Spike Dup (1IK0381-MSD1) Source: 1IJ2324-06 Prepared: 11/07/25 00:00 Analyzed: 11/07/25 15:24										



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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 1IK0381 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IK0381-MSD1)	Source: 1IJ2324-06			Prepared: 11/07/25 00:00 Analyzed: 11/07/25 15:24						
Allyl chloride	439.4	10.0	ug/L	500	ND	87.9	66-136	3.62	30	
Chloroprene	623.7	10.0	ug/L	500	ND	125	67-139	4.99	30	
Methacrylonitrile	570.2	10.0	ug/L	500	ND	114	60-140	0.334	30	
Methyl Methacrylate	579.7	10.0	ug/L	500	ND	116	86-112	2.20	30	Q7
Propionitrile	609.5	100	ug/L	500	ND	122	52-182	5.10	30	
Surrogate: Dibromofluoromethane	236		ug/L	502		47.0	57-128			S2
Surrogate: 1,2-Dichloroethane-d4	493		ug/L	504		97.9	49-135			
Surrogate: Toluene-d8	485		ug/L	505		96.2	82-116			
Surrogate: 4-Bromofluorobenzene	504		ug/L	502		101	77-114			

Determination of General Solvents	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IK0446 - Semi-Vol GC - EPA 8015C										
Blank (1IK0446-BLK1)	Prepared: 11/07/25 10:50 Analyzed: 11/07/25 13:58									
Isobutanol	<1.0	1.0	mg/L							
LCS (1IK0446-BS1)	Prepared: 11/07/25 10:50 Analyzed: 11/07/25 11:29									
Isobutanol	26.74	1.0	mg/L	24.0		111	77-128			
Matrix Spike (1IK0446-MS1)	Source: 1IJ2590-03			Prepared: 11/07/25 10:50 Analyzed: 11/08/25 01:31						
Isobutanol	22.30	1.0	mg/L	24.0	ND	92.9	68-127			
Matrix Spike Dup (1IK0446-MSD1)	Source: 1IJ2590-03			Prepared: 11/07/25 10:50 Analyzed: 11/08/25 02:08						
Isobutanol	15.33	1.0	mg/L	24.0	ND	63.9	68-127	37.0	30	M2

Metals Total by AA	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IK0233 - EPA 7470A Hg Water - EPA 7470A										
Blank (1IK0233-BLK1)	Prepared: 11/05/25 15:41 Analyzed: 11/06/25 15:29									
Mercury	<0.00050	0.00050	mg/L							
LCS (1IK0233-BS1)	Prepared: 11/05/25 15:41 Analyzed: 11/06/25 15:32									
Mercury	0.00254	0.00050	mg/L	0.00250		101	80-120			
Matrix Spike (1IK0233-MS1)	Source: 1IJ2285-01			Prepared: 11/05/25 15:41 Analyzed: 11/06/25 15:36						
Mercury	0.0165	0.00200	mg/L	0.00250	0.0154	44.8	75-125			M6
Matrix Spike Dup (1IK0233-MSD1)	Source: 1IJ2285-01			Prepared: 11/05/25 15:41 Analyzed: 11/06/25 15:39						
Mercury	0.0191	0.00200	mg/L	0.00250	0.0154	151	75-125	14.8	20	M6

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1683 - 3520C BNA Cont Liq - EPA 8270C										



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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 11J1683 - 3520C BNA Cont Liq - EPA 8270C									
Blank (11J1683-BLK1)				Prepared: 10/29/25 14:34 Analyzed: 11/11/25 10:37					
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						
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						

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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 11J1683 - 3520C BNA Cont Liq - EPA 8270C									
Blank (11J1683-BLK1)				Prepared: 10/29/25 14:34 Analyzed: 11/11/25 10:37					
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						
Isodrin	<8	8	ug/L						
Chlorobenzilate	<8	8	ug/L						
Pyrene	<8	8	ug/L						
p-(Dimethylamino)azobenzene	<8	8	ug/L						

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CERTIFICATE OF ANALYSIS

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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 11J1683 - 3520C BNA Cont Liq - EPA 8270C									
Blank (11J1683-BLK1)				Prepared: 10/29/25 14:34 Analyzed: 11/11/25 10:37					
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	17.1		ug/L	20.2		84.5	10-159		
Surrogate: Phenol-d6	14.2		ug/L	19.8		71.5	10-162		
Surrogate: Nitrobenzene-d5	15.8		ug/L	19.5		80.9	17-154		
Surrogate: 2-Fluorobiphenyl	16.2		ug/L	19.4		83.2	15-150		
Surrogate: 2,4,6-Tribromophenol	19.2		ug/L	20.5		93.8	10-156		
Surrogate: Terphenyl-d14	10.7		ug/L	12.2		88.0	10-179		
LCS (11J1683-BS1)				Prepared: 10/29/25 14:34 Analyzed: 11/11/25 11:27					
N-Nitrosodimethylamine	<8	8	ug/L	12.0		42.4	12-122		
Methyl Methanesulfonate	<8	8	ug/L	12.0		59.6	49-110		
N-Nitrosodiethylamine	9.5	8	ug/L	12.0		79.1	19-139		
N-Nitrosomethylethylamine	8.2	8	ug/L	12.0		68.3	13-158		
Ethyl Methanesulfonate	9.4	8	ug/L	12.0		78.4	50-110		
Phenol	10.8	8	ug/L	12.0		90.2	15-130		
Bis(2-Chloroethyl) Ether	11.9	8	ug/L	12.0		99.1	28-128		
2-Chlorophenol	10.2	8	ug/L	12.0		84.9	12-155		
Benzyl Alcohol	<8	8	ug/L	12.0		56.0	13-143		
2-Methylphenol (o-Cresol)	9.8	8	ug/L	12.0		81.3	37-125		
Bis[2-Chloroisopropyl]ether	9.8	8	ug/L	12.0		81.4	31-130		
n-Nitroso-di-n-propylamine	10.2	8	ug/L	12.0		85.4	38-128		
N-Nitrosopyrrolidine	9.7	8	ug/L	12.0		81.2	22-143		
Acetophenone	10.3	8	ug/L	12.0		86.0	52-120		
o-Toluidine	<8	8	ug/L	12.0			10-110		Q3
(3 & 4)-Methylphenol	11.0	8	ug/L	12.0		91.8	35-129		
Hexachloroethane	<8	8	ug/L	12.0		55.0	19-110		

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CERTIFICATE OF ANALYSIS

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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 1IJ1683 - 3520C BNA Cont Liq - EPA 8270C									
LCS (1IJ1683-BS1)				Prepared: 10/29/25 14:34 Analyzed: 11/11/25 11:27					
Nitrobenzene	9.9	8	ug/L	12.0		82.3	26-148		
N-Nitrosopiperidine	9.8	8	ug/L	12.0		81.3	23-140		
Isophorone	10.0	8	ug/L	12.0		83.2	37-134		
2-Nitrophenol	10.6	8	ug/L	12.0		88.1	37-127		
2,4-Dimethylphenol	10.8	8	ug/L	12.0		89.7	36-131		
Bis (2-Chloroethoxy) Methane	9.9	8	ug/L	12.0		82.3	31-119		
2,4-Dichlorophenol	11.3	8	ug/L	12.0		94.2	32-148		
Naphthalene	9.2	8	ug/L	12.0		76.4	37-110		
4-Chloroaniline	<8	8	ug/L	12.0			10-110		Q3
2,6-Dichlorophenol	11.4	8	ug/L	12.0		94.8	28-154		
Hexachloropropene	8.4	8	ug/L	12.0		69.7	10-110		
Hexachlorobutadiene	<8	8	ug/L	12.0		54.9	21-110		
N-Nitrosodi-n-butylamine	9.3	8	ug/L	12.0		77.4	24-135		
1,4-Phenylenediamine	<8	8	ug/L	12.0			10-103		Q3
4-Chloro-3-methylphenol	11.2	8	ug/L	12.0		92.9	32-146		
2-Methylnaphthalene	9.9	8	ug/L	12.0		82.2	36-113		
Isosafrole	10.0	8	ug/L	12.0		83.0	43-117		
1,2,4,5-Tetrachlorobenzene	9.2	8	ug/L	12.0		76.6	34-110		
Hexachlorocyclopentadiene	<8	8	ug/L	12.0		56.2	10-110		
2,4,6-Trichlorophenol	10.6	8	ug/L	12.0		88.2	32-159		
2,4,5-Trichlorophenol	10.6	8	ug/L	12.0		88.2	35-164		
Safrole	10.0	8	ug/L	12.0		83.8	34-122		
2-Chloronaphthalene	10.0	8	ug/L	12.0		83.1	18-136		
2-Nitroaniline	10.1	8	ug/L	12.0		84.4	35-151		
1,4-Naphthoquinone	11.9	8	ug/L	12.0		99.0	32-188		
Dimethylphthalate	10.5	8	ug/L	12.0		87.3	39-147		
1,3-Dinitrobenzene	11.1	8	ug/L	12.0		92.2	30-163		
1,2-Dinitrobenzene	10.8	8	ug/L	12.0		89.8	31-159		
2,6-Dinitrotoluene	10.8	8	ug/L	12.0		89.9	42-144		
Acenaphthylene	9.7	8	ug/L	12.0		81.2	35-122		
3-Nitroaniline	<8	8	ug/L	12.0			10-135		Q3
Acenaphthene	9.6	8	ug/L	12.0		80.4	37-128		
2,4-Dinitrophenol	13.3	8	ug/L	12.0		111	31-164		
4-Nitrophenol	10.3	8	ug/L	12.0		85.8	11-175		
Dibenzofuran	10.0	8	ug/L	12.0		83.1	36-132		
2,4-Dinitrotoluene	10.8	8	ug/L	12.0		90.3	45-142		
2,3,4,6-Tetrachlorophenol	10.1	8	ug/L	12.0		84.2	22-159		
Pentachlorobenzene	9.7	8	ug/L	12.0		80.7	45-125		
Diethyl Phthalate	10.7	8	ug/L	12.0		89.0	38-155		
Fluorene	10.2	8	ug/L	12.0		85.3	40-131		
4-Chlorophenyl Phenyl Ether	10.3	8	ug/L	12.0		85.8	36-130		
4-Nitroaniline	<8	8	ug/L	12.0		60.7	10-142		

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CERTIFICATE OF ANALYSIS

11J2324

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1683 - 3520C BNA Cont Liq - EPA 8270C									
LCS (11J1683-BS1)				Prepared: 10/29/25 14:34 Analyzed: 11/11/25 11:27					
5-Nitro-o-toluidine	<8	8	ug/L	12.0	25.3	10-172			
4,6-Dinitro-2-methylphenol	11.7	8	ug/L	12.0	97.7	32-150			
N-Nitrosodiphenylamine	10.1	8	ug/L	12.0	84.0	10-154			
Diphenylamine	10.1	8	ug/L	12.0	84.0	10-166			
Azobenzene	10.6	8	ug/L	12.0	88.3	33-144			
Diallate	9.8	8	ug/L	12.0	81.7	47-152			
1,3,5-Trinitrobenzene	10.3	8	ug/L	12.0	86.2	51-151			
Phenacetin	10.5	8	ug/L	12.0	87.8	58-143			
4-Bromophenyl Phenyl Ether	10.4	8	ug/L	12.0	86.6	38-141			
4-Aminobiphenyl	<8	8	ug/L	12.0		10-178			Q3
Pentachlorophenol	10.0	8	ug/L	12.0	82.9	21-154			
Pronamide	9.1	8	ug/L	12.0	75.8	27-143			
Pentachloronitrobenzene (PCNB)	11.0	8	ug/L	12.0	91.5	51-163			
Phenanthrene	10.0	8	ug/L	12.0	83.1	42-141			
Anthracene	10.1	8	ug/L	12.0	83.9	43-136			
Di-n-butyl Phthalate	10.5	8	ug/L	12.0	87.4	44-158			
Fluoranthene	9.8	8	ug/L	12.0	81.5	44-145			
Isodrin	8.5	8	ug/L	12.0	71.0	54-126			
Chlorobenzilate	11.3	8	ug/L	12.0	94.5	25-164			
Pyrene	11.0	8	ug/L	12.0	92.0	37-155			
p-(Dimethylamino)azobenzene	<8	8	ug/L	12.0	61.4	10-175			
Butyl Benzyl Phthalate	10.9	8	ug/L	12.0	91.1	35-163			
Benzo(a)anthracene	9.7	8	ug/L	12.0	81.0	40-142			
Chrysene	9.8	8	ug/L	12.0	81.3	45-142			
Bis(2-Ethylhexyl) Phthalate	12.3	6	ug/L	12.0	103	32-180			
Kepone	14.7	8	ug/L	12.0	122	10-147			
2-Acetylaminofluorene	10.7	8	ug/L	12.0	89.5	27-177			
Di-n-octyl Phthalate	11.6	8	ug/L	12.0	96.6	32-181			
Benzo(b)Fluoranthene	9.7	8	ug/L	12.0	80.9	40-160			
7,12-Dimethylbenz [a] anthracene	10.5	8	ug/L	12.0	87.7	46-128			
Benzo(k)Fluoranthene	9.5	8	ug/L	12.0	79.3	42-159			
Benzo(a)Pyrene	9.3	8	ug/L	12.0	77.5	45-143			
3-Methylcholanthrene	8.8	8	ug/L	12.0	73.7	10-164			
Dibenzo(a,h)anthracene	<8	8	ug/L	12.0	65.2	30-159			
Indeno(1,2,3-cd)Pyrene	<8	8	ug/L	12.0	65.2	31-156			
Benzo(g,h,i)perylene	8.2	8	ug/L	12.0	68.3	26-158			
Surrogate: 2-Fluorophenol	17.8		ug/L	20.2	88.0	10-159			
Surrogate: Phenol-d6	17.1		ug/L	19.8	86.1	10-162			
Surrogate: Nitrobenzene-d5	16.9		ug/L	19.5	86.4	34-138			
Surrogate: 2-Fluorobiphenyl	16.5		ug/L	19.4	85.2	42-129			

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CERTIFICATE OF ANALYSIS

11J2324

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1683 - 3520C BNA Cont Liq - EPA 8270C									
LCS (11J1683-BS1)				Prepared: 10/29/25 14:34 Analyzed: 11/11/25 11:27					
Surrogate: 2,4,6-Tribromophenol	18.5		ug/L	20.5		90.0 10-156			
Surrogate: Terphenyl-d14	12.0		ug/L	12.2		98.6 46-154			
LCS Dup (11J1683-BSD1)				Prepared: 10/29/25 14:34 Analyzed: 11/11/25 11:52					
N-Nitrosodimethylamine	<8	8	ug/L	12.0		29.6 12-122	35.6	27	R1
Methyl Methanesulfonate	<8	8	ug/L	12.0		38.0 49-110	44.2	16	Q3
N-Nitrosodiethylamine	<8	8	ug/L	12.0		45.8 19-139	53.4	30	R1
N-Nitrosomethylethylamine	<8	8	ug/L	12.0		39.7 13-158	53.1	30	R1
Ethyl Methanesulfonate	<8	8	ug/L	12.0		43.2 50-110	57.8	17	Q3
Phenol	10.4	8	ug/L	12.0		86.6 15-130	4.15	30	
Bis(2-Chloroethyl) Ether	11.6	8	ug/L	12.0		96.9 28-128	2.21	24	
2-Chlorophenol	10.2	8	ug/L	12.0		84.7 12-155	0.295	30	
Benzyl Alcohol	<8	8	ug/L	12.0		44.8 13-143	22.1	30	
2-Methylphenol (o-Cresol)	9.5	8	ug/L	12.0		79.3 37-125	2.49	30	
Bis[2-Chloroisopropyl]ether	10.0	8	ug/L	12.0		83.1 31-130	2.03	26	
n-Nitroso-di-n-propylamine	10.1	8	ug/L	12.0		84.3 38-128	1.28	21	
N-Nitrosopyrrolidine	<8	8	ug/L	12.0		45.0 22-143	57.3	30	R1
Acetophenone	10.3	8	ug/L	12.0		85.8 52-120	0.291	22	
o-Toluidine	<8	8	ug/L	12.0		10-110		30	Q3
(3 & 4)-Methylphenol	10.7	8	ug/L	12.0		88.8 35-129	3.32	30	
Hexachloroethane	<8	8	ug/L	12.0		55.8 19-110	1.50	30	
Nitrobenzene	10.5	8	ug/L	12.0		87.2 26-148	5.70	30	
N-Nitrosopiperidine	<8	8	ug/L	12.0		54.8 23-140	38.9	30	R1
Isophorone	10.5	8	ug/L	12.0		87.7 37-134	5.17	26	
2-Nitrophenol	11.2	8	ug/L	12.0		93.4 37-127	5.88	30	
2,4-Dimethylphenol	11.2	8	ug/L	12.0		93.2 36-131	3.83	30	
Bis (2-Chloroethoxy) Methane	10.2	8	ug/L	12.0		85.2 31-119	3.48	30	
2,4-Dichlorophenol	11.7	8	ug/L	12.0		97.8 32-148	3.73	30	
Naphthalene	9.7	8	ug/L	12.0		80.6 37-110	5.31	30	
4-Chloroaniline	<8	8	ug/L	12.0		10-110		30	Q3
2,6-Dichlorophenol	11.7	8	ug/L	12.0		97.6 28-154	2.95	30	
Hexachloropropene	9.1	8	ug/L	12.0		76.0 10-110	8.70	30	
Hexachlorobutadiene	<8	8	ug/L	12.0		56.0 21-110	1.95	30	
N-Nitrosodi-n-butylamine	9.8	8	ug/L	12.0		81.8 24-135	5.45	30	
1,4-Phenylenediamine	<8	8	ug/L	12.0		10-103		30	R1
4-Chloro-3-methylphenol	11.2	8	ug/L	12.0		93.2 32-146	0.269	30	
2-Methylnaphthalene	10.2	8	ug/L	12.0		84.6 36-113	2.80	26	
Isosafrole	10.3	8	ug/L	12.0		86.1 43-117	3.65	29	
1,2,4,5-Tetrachlorobenzene	9.8	8	ug/L	12.0		82.1 34-110	6.93	30	
Hexachlorocyclopentadiene	<8	8	ug/L	12.0		63.8 10-110	12.8	30	
2,4,6-Trichlorophenol	11.2	8	ug/L	12.0		93.2 32-159	5.51	30	
2,4,5-Trichlorophenol	11.0	8	ug/L	12.0		91.5 35-164	3.71	30	

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Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch 11J1683 - 3520C BNA Cont Liq - EPA 8270C								
LCS Dup (11J1683-BSD1)				Prepared: 10/29/25 14:34 Analyzed: 11/11/25 11:52				
Safrole	10.4	8	ug/L	12.0	86.3	34-122	3.04	30
2-Chloronaphthalene	10.3	8	ug/L	12.0	86.0	18-136	3.45	30
2-Nitroaniline	10.8	8	ug/L	12.0	89.8	35-151	6.12	21
1,4-Naphthoquinone	12.8	8	ug/L	12.0	106	32-188	7.22	30
Dimethylphthalate	10.8	8	ug/L	12.0	90.3	39-147	3.38	22
1,3-Dinitrobenzene	11.1	8	ug/L	12.0	92.8	30-163	0.630	26
1,2-Dinitrobenzene	11.3	8	ug/L	12.0	94.3	31-159	4.98	26
2,6-Dinitrotoluene	11.1	8	ug/L	12.0	92.8	42-144	3.10	20
Acenaphthylene	10.2	8	ug/L	12.0	84.6	35-122	4.12	30
3-Nitroaniline	<8	8	ug/L	12.0		10-135		30 Q3
Acenaphthene	10.0	8	ug/L	12.0	83.6	37-128	3.86	30
2,4-Dinitrophenol	13.2	8	ug/L	12.0	110	31-164	0.755	30
4-Nitrophenol	10.4	8	ug/L	12.0	87.0	11-175	1.45	30
Dibenzofuran	10.2	8	ug/L	12.0	85.1	36-132	2.38	30
2,4-Dinitrotoluene	11.4	8	ug/L	12.0	94.6	45-142	4.60	20
2,3,4,6-Tetrachlorophenol	10.7	8	ug/L	12.0	88.8	22-159	5.30	30
Pentachlorobenzene	10.3	8	ug/L	12.0	85.7	45-125	6.01	30
Diethyl Phthalate	11.2	8	ug/L	12.0	93.5	38-155	4.93	30
Fluorene	10.6	8	ug/L	12.0	88.4	40-131	3.55	30
4-Chlorophenyl Phenyl Ether	10.5	8	ug/L	12.0	87.5	36-130	1.92	22
4-Nitroaniline	<8	8	ug/L	12.0	62.1	10-142	2.31	30
5-Nitro-o-toluidine	<8	8	ug/L	12.0	26.2	10-172	3.55	30
4,6-Dinitro-2-methylphenol	12.0	8	ug/L	12.0	99.8	32-150	2.11	30
N-Nitrosodiphenylamine	10.6	8	ug/L	12.0	88.3	10-154	5.03	30
Diphenylamine	10.6	8	ug/L	12.0	88.3	10-166	5.03	30
Azobenzene	11.0	8	ug/L	12.0	91.8	33-144	3.89	27
Diallate	10.4	8	ug/L	12.0	86.9	47-152	6.23	30
1,3,5-Trinitrobenzene	10.9	8	ug/L	12.0	90.8	51-151	5.18	30
Phenacetin	11.2	8	ug/L	12.0	93.0	58-143	5.71	24
4-Bromophenyl Phenyl Ether	10.6	8	ug/L	12.0	88.5	38-141	2.19	17
4-Aminobiphenyl	<8	8	ug/L	12.0		10-178		30 Q3
Pentachlorophenol	10.1	8	ug/L	12.0	83.9	21-154	1.20	30
Pronamide	10.2	8	ug/L	12.0	85.3	27-143	11.9	30
Pentachloronitrobenzene (PCNB)	11.7	8	ug/L	12.0	97.5	51-163	6.35	30
Phenanthrene	10.3	8	ug/L	12.0	85.7	42-141	3.06	30
Anthracene	10.6	8	ug/L	12.0	88.2	43-136	4.94	30
Di-n-butyl Phthalate	11.1	8	ug/L	12.0	92.3	44-158	5.47	23
Fluoranthene	10.5	8	ug/L	12.0	87.3	44-145	6.91	26
Isodrin	9.9	8	ug/L	12.0	82.2	54-126	14.7	30
Chlorobenzilate	11.9	8	ug/L	12.0	99.3	25-164	4.99	30
Pyrene	11.3	8	ug/L	12.0	93.9	37-155	2.06	24

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Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch 11J1683 - 3520C BNA Cont Liq - EPA 8270C								
LCS Dup (11J1683-BSD1)			Prepared: 10/29/25 14:34 Analyzed: 11/11/25 11:52					
p-(Dimethylamino)azobenzene	8.5	8	ug/L	12.0	70.8	10-175	14.2	30
Butyl Benzyl Phthalate	11.3	8	ug/L	12.0	94.5	35-163	3.68	21
Benzo(a)anthracene	9.5	8	ug/L	12.0	79.4	40-142	1.97	20
Chrysene	9.6	8	ug/L	12.0	79.6	45-142	2.18	30
Bis(2-Ethylhexyl) Phthalate	15.0	6	ug/L	12.0	125	32-180	19.5	30
Kepone	13.2	8	ug/L	12.0	110	10-147	11.1	30
2-Acetylaminofluorene	11.3	8	ug/L	12.0	93.9	27-177	4.82	30
Di-n-octyl Phthalate	12.5	8	ug/L	12.0	104	32-181	7.48	16
Benzo(b)Fluoranthene	9.3	8	ug/L	12.0	77.8	40-160	3.99	24
7,12-Dimethylbenz [a] anthracene	10.7	8	ug/L	12.0	89.2	46-128	1.79	30
Benzo(k)Fluoranthene	8.9	8	ug/L	12.0	73.9	42-159	7.07	20
Benzo(a)Pyrene	8.6	8	ug/L	12.0	71.2	45-143	8.40	30
3-Methylcholanthrene	8.2	8	ug/L	12.0	68.0	10-164	8.00	30
Dibenzo(a,h)anthracene	<8	8	ug/L	12.0	58.0	30-159	11.8	26
Indeno(1,2,3-cd)Pyrene	<8	8	ug/L	12.0	56.7	31-156	14.1	30
Benzo(g,h,i)perylene	<8	8	ug/L	12.0	59.9	26-158	13.1	30
Surrogate: 2-Fluorophenol	17.1		ug/L	20.2	84.4	10-159		
Surrogate: Phenol-d6	15.4		ug/L	19.8	77.8	10-162		
Surrogate: Nitrobenzene-d5	17.0		ug/L	19.5	87.3	34-138		
Surrogate: 2-Fluorobiphenyl	16.5		ug/L	19.4	85.1	42-129		
Surrogate: 2,4,6-Tribromophenol	18.6		ug/L	20.5	90.6	10-156		
Surrogate: Terphenyl-d14	11.7		ug/L	12.2	96.4	46-154		

Metals Total by ICPMS	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch 11J1688 - EPA 3005A Total Recoverable Metals - EPA 6020A								
Blank (11J1688-BLK1)			Prepared: 10/29/25 15:22 Analyzed: 10/30/25 17:52					
Antimony	<0.0010	0.0010	mg/L					
Arsenic	<0.0020	0.0020	mg/L					
Barium	<0.0010	0.0010	mg/L					
Beryllium	<0.0005	0.0005	mg/L					
Cadmium	<0.0002	0.0002	mg/L					
Chromium	<0.0010	0.0010	mg/L					B
Cobalt	<0.0005	0.0005	mg/L					
Copper	<0.0050	0.0050	mg/L					
Lead	<0.0010	0.0010	mg/L					
Nickel	<0.0050	0.0050	mg/L					
Selenium	<0.0020	0.0020	mg/L					
Silver	<0.0050	0.0050	mg/L					
Thallium	<0.0005	0.0005	mg/L					
Tin	<0.0050	0.0050	mg/L					



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Metals Total by ICPMS	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1688 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1IJ1688-BLK1)				Prepared: 10/29/25 15:22 Analyzed: 10/30/25 17:52						
Vanadium	<0.0020	0.0020	mg/L							
Zinc	<0.0050	0.0050	mg/L							
LCS (1IJ1688-BS1)				Prepared: 10/29/25 15:22 Analyzed: 10/30/25 17:55						
Antimony	0.0993	0.0010	mg/L	0.100		99.3	80-120			
Arsenic	0.0918	0.0020	mg/L	0.100		91.8	80-120			
Barium	0.100	0.0010	mg/L	0.100		100	80-120			
Beryllium	0.0972	0.0005	mg/L	0.100		97.2	80-120			
Cadmium	0.0950	0.0002	mg/L	0.100		95.0	80-120			
Chromium	0.0990	0.0010	mg/L	0.100		99.0	80-120			
Cobalt	0.103	0.0005	mg/L	0.100		103	80-120			
Copper	0.0950	0.0050	mg/L	0.100		95.0	80-120			
Lead	0.0982	0.0010	mg/L	0.100		98.2	80-120			
Nickel	0.0970	0.0050	mg/L	0.100		97.0	80-120			
Selenium	0.0948	0.0020	mg/L	0.100		94.8	80-120			
Silver	0.0974	0.0050	mg/L	0.100		97.4	80-120			
Thallium	0.0954	0.0005	mg/L	0.100		95.4	80-120			
Tin	0.108	0.0050	mg/L	0.100		108	80-120			
Vanadium	0.107	0.0020	mg/L	0.100		107	80-120			
Zinc	0.0950	0.0050	mg/L	0.100		95.0	80-120			
Matrix Spike (1IJ1688-MS1)				Source: 1IJ2324-01	Prepared: 10/29/25 15:22 Analyzed: 10/30/25 18:05					
Antimony	0.101	0.0010	mg/L	0.100	0.0006	101	75-125			
Arsenic	0.102	0.0020	mg/L	0.100	0.0035	98.5	75-125			
Barium	0.400	0.0010	mg/L	0.100	0.321	79.2	75-125			
Beryllium	0.105	0.0005	mg/L	0.100	ND	105	75-125			
Cadmium	0.0943	0.0002	mg/L	0.100	0.0003	94.1	75-125			
Chromium	0.107	0.0010	mg/L	0.100	0.0016	105	75-125			
Cobalt	0.110	0.0005	mg/L	0.100	0.0021	108	75-125			
Copper	0.0945	0.0050	mg/L	0.100	0.0027	91.9	75-125			
Lead	0.101	0.0010	mg/L	0.100	0.0002	101	75-125			
Nickel	0.0986	0.0050	mg/L	0.100	0.0029	95.7	75-125			
Selenium	0.1032	0.0020	mg/L	0.100	0.0011	102	75-125			
Silver	0.102	0.0050	mg/L	0.100	ND	102	75-125			
Thallium	0.0996	0.0005	mg/L	0.100	ND	99.6	75-125			
Tin	0.111	0.0050	mg/L	0.100	ND	111	75-125			
Vanadium	0.119	0.0020	mg/L	0.100	0.0012	118	75-125			
Zinc	0.0981	0.0050	mg/L	0.100	0.0050	93.1	75-125			
Matrix Spike Dup (1IJ1688-MSD1)				Source: 1IJ2324-01	Prepared: 10/29/25 15:22 Analyzed: 10/30/25 18:07					
Antimony	0.105	0.0010	mg/L	0.100	0.0006	104	75-125	3.18	20	
Arsenic	0.0991	0.0020	mg/L	0.100	0.0035	95.6	75-125	2.81	20	
Barium	0.403	0.0010	mg/L	0.100	0.321	82.0	75-125	0.694	20	
Beryllium	0.105	0.0005	mg/L	0.100	ND	105	75-125	0.482	20	
Cadmium	0.0940	0.0002	mg/L	0.100	0.0003	93.7	75-125	0.410	20	
Chromium	0.105	0.0010	mg/L	0.100	0.0016	103	75-125	1.69	20	

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Metals Total by ICPMS	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1688 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Matrix Spike Dup (1IJ1688-MSD1) Source: 1IJ2324-01 Prepared: 10/29/25 15:22 Analyzed: 10/30/25 18:07										
Cobalt	0.112	0.0005	mg/L	0.100	0.0021	109	75-125	1.58	20	
Copper	0.0944	0.0050	mg/L	0.100	0.0027	91.7	75-125	0.167	20	
Lead	0.101	0.0010	mg/L	0.100	0.0002	101	75-125	0.307	20	
Nickel	0.0976	0.0050	mg/L	0.100	0.0029	94.7	75-125	1.04	20	
Selenium	0.1027	0.0020	mg/L	0.100	0.0011	102	75-125	0.498	20	
Silver	0.104	0.0050	mg/L	0.100	ND	104	75-125	1.26	20	
Thallium	0.100	0.0005	mg/L	0.100	ND	100	75-125	0.790	20	
Tin	0.115	0.0050	mg/L	0.100	ND	115	75-125	3.43	20	
Vanadium	0.114	0.0020	mg/L	0.100	0.0012	113	75-125	4.08	20	
Zinc	0.0987	0.0050	mg/L	0.100	0.0050	93.7	75-125	0.631	20	
Post Spike (1IJ1688-PS1) Source: 1IJ2324-01 Prepared: 10/29/25 15:22 Analyzed: 10/30/25 18:10										
Antimony	0.0208		mg/L	0.0200	0.0006	101	80-120			
Arsenic	0.0226		mg/L	0.0200	0.0034	96.1	80-120			
Barium	0.330		mg/L	0.0200	0.314	81.0	80-120			
Beryllium	0.0204		mg/L	0.0200	0.00004	102	80-120			
Cadmium	0.0185		mg/L	0.0200	0.0002	91.1	80-120			
Chromium	0.0206		mg/L	0.0200	0.0015	95.5	80-120			
Cobalt	0.0208		mg/L	0.0200	0.0021	93.7	80-120			
Copper	0.0211		mg/L	0.0200	0.0026	92.6	80-120			
Lead	0.0198		mg/L	0.0200	0.0002	98.0	80-120			
Nickel	0.0214		mg/L	0.0200	0.0029	92.7	80-120			
Selenium	0.0211		mg/L	0.0200	0.0011	100	80-120			
Silver	0.0204		mg/L	0.0200	0.00007	101	80-120			
Thallium	0.0199		mg/L	0.0200	0.000009	99.4	80-120			
Tin	0.0208		mg/L	0.0200	0.0006	101	75-125			
Vanadium	0.0204		mg/L	0.0200	0.0011	96.5	80-120			
Zinc	0.0228		mg/L	0.0200	0.0049	89.7	80-120			
Batch 1IK0084 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1IK0084-BLK1) Prepared: 11/03/25 16:20 Analyzed: 11/04/25 19:48										
Lead	<0.0010	0.0010	mg/L							
Nickel	<0.0050	0.0050	mg/L							
Vanadium	<0.0020	0.0020	mg/L							
Zinc	<0.0050	0.0050	mg/L							
LCS (1IK0084-BS1) Prepared: 11/03/25 16:20 Analyzed: 11/04/25 19:51										
Lead	0.0968	0.0010	mg/L	0.100		96.8	80-120			
Nickel	0.104	0.0050	mg/L	0.100		104	80-120			
Vanadium	0.105	0.0020	mg/L	0.100		105	80-120			
Zinc	0.104	0.0050	mg/L	0.100		104	80-120			
Matrix Spike (1IK0084-MS1) Source: 1IJ2324-08RE3 Prepared: 11/03/25 16:20 Analyzed: 11/04/25 20:01										
Lead	0.0975	0.0010	mg/L	0.100	ND	97.5	75-125			
Nickel	0.100	0.0050	mg/L	0.100	ND	100	75-125			

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Metals Total by ICPMS	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IK0084 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Matrix Spike (1IK0084-MS1)	Source: 1IJ2324-08RE3 Prepared: 11/03/25 16:20 Analyzed: 11/04/25 20:01									
Vanadium	0.108	0.0020	mg/L	0.100	0.0007	108	75-125			
Zinc	0.101	0.0050	mg/L	0.100	0.0033	97.2	75-125			
Matrix Spike Dup (1IK0084-MSD1)	Source: 1IJ2324-08RE3 Prepared: 11/03/25 16:20 Analyzed: 11/04/25 20:03									
Lead	0.0961	0.0010	mg/L	0.100	ND	96.1	75-125	1.48	20	
Nickel	0.101	0.0050	mg/L	0.100	ND	101	75-125	0.596	20	
Vanadium	0.110	0.0020	mg/L	0.100	0.0007	109	75-125	1.03	20	
Zinc	0.108	0.0050	mg/L	0.100	0.0033	105	75-125	6.96	20	
Post Spike (1IK0084-PS1)	Source: 1IJ2324-08RE3 Prepared: 11/03/25 16:20 Analyzed: 11/04/25 20:06									
Lead	0.0187		mg/L	0.0200	0.00008	93.1	80-120			
Nickel	0.0196		mg/L	0.0200	0.0001	97.3	80-120			
Vanadium	0.0196		mg/L	0.0200	0.0007	94.6	80-120			
Zinc	0.0222		mg/L	0.0200	0.0033	94.5	80-120			
Determination of Organophosphorus Insecticides	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IK0053 - 3510C NP/OC Sep Fnl - EPA 8141										
Blank (1IK0053-BLK1)	Prepared: 11/03/25 14:30 Analyzed: 11/10/25 12:08									
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	10.7		ug/L	13.9		77.1	32-110			
LCS (1IK0053-BS1)	Prepared: 11/03/25 14:30 Analyzed: 11/10/25 13:36									
O,O,O-Triethyl phosphorothioate	3.51	0.4	ug/L	4.00		87.8	31-156			
Thionazin	3.74	0.4	ug/L	4.00		93.5	60-128			
Phorate	3.56	0.4	ug/L	4.00		88.9	33-143			
Dimethoate	5.12	0.4	ug/L	4.00		128	60-172			
Disulfoton	2.50	0.4	ug/L	4.00		62.6	51-134			
Methyl Parathion	3.82	0.4	ug/L	4.00		95.5	65-121			
Parathion	3.36	0.4	ug/L	4.00		84.1	60-113			
Famphur	3.73	0.4	ug/L	4.00		93.2	65-133			
Surrogate: 2-Nitro-m-xylene	12.7		ug/L	13.9		91.1	32-110			
LCS Dup (1IK0053-BSD1)	Prepared: 11/03/25 14:30 Analyzed: 11/10/25 14:20									
O,O,O-Triethyl phosphorothioate	3.50	0.4	ug/L	4.00		87.6	31-156	0.143	30	
Thionazin	3.88	0.4	ug/L	4.00		97.1	60-128	3.80	30	

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Determination of Organophosphorus Insecticides	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IK0053 - 3510C NP/OC Sep Fnl - EPA 8141									
LCS Dup (1IK0053-BSD1)				Prepared: 11/03/25 14:30 Analyzed: 11/10/25 14:20					
Phorate	3.92	0.4	ug/L	4.00		97.9 33-143	9.64	30	
Dimethoate	5.25	0.4	ug/L	4.00		131 60-172	2.60	30	
Disulfoton	3.06	0.4	ug/L	4.00		76.6 51-134	20.1	30	
Methyl Parathion	3.79	0.4	ug/L	4.00		94.8 65-121	0.788	30	
Parathion	3.45	0.4	ug/L	4.00		86.2 60-113	2.49	26	
Famphur	3.76	0.4	ug/L	4.00		94.1 65-133	0.934	30	

Surrogate: 2-Nitro-m-xylene 12.4 ug/L 13.9 89.3 32-110

Determination of Chlorinated Phenoxy Herbicides	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1760 - EPA 8151A - EPA 8151A									
Blank (11J1760-BLK1)				Prepared: 10/30/25 13:05 Analyzed: 11/03/25 14:55					
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 1.73 ug/L 1.81 95.8 49-174

LCS (11J1760-BS1)				Prepared: 10/30/25 13:05 Analyzed: 11/03/25 15:55					
2,4-D	<2.0	2.0	ug/L	1.00		60.0 38-135			
2,4,5-TP (Silvex)	<0.5	0.5	ug/L	0.500		70.4 50-137			
2,4,5-T	<0.5	0.5	ug/L	0.500		85.1 49-157			
Dinoseb	0.94	0.5	ug/L	1.00		93.6 10-129			

Surrogate: 2,5-Dichlorobenzoic Acid 1.57 ug/L 1.81 86.7 49-174

LCS Dup (11J1760-BSD1)				Prepared: 10/30/25 13:05 Analyzed: 11/03/25 16:25					
2,4-D	<2.0	2.0	ug/L	1.00		47.2 38-135	23.8	30	
2,4,5-TP (Silvex)	<0.5	0.5	ug/L	0.500		68.0 50-137	3.50	30	
2,4,5-T	<0.5	0.5	ug/L	0.500		84.6 49-157	0.573	30	
Dinoseb	0.59	0.5	ug/L	1.00		58.9 10-129	45.5	30	R1

Surrogate: 2,5-Dichlorobenzoic Acid 1.25 ug/L 1.81 69.0 49-174

Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IK0050 - 3510C NP/OC Sep Fnl - EPA 8081A									
Blank (1IK0050-BLK1)				Prepared: 11/03/25 14:29 Analyzed: 11/10/25 11:35					
Alpha-BHC	<0.05	0.05	ug/L						



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Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch 1IK0050 - 3510C NP/OC Sep Fnl - EPA 8081A								
Blank (1IK0050-BLK1)			Prepared: 11/03/25 14:29 Analyzed: 11/10/25 11:35					
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	0.459		ug/L	0.600		76.4	45-111	
LCS (1IK0050-BS1)			Prepared: 11/03/25 14:29 Analyzed: 11/10/25 11:49					
Alpha-BHC	0.213	0.05	ug/L	0.250		85.2	60-125	
Gamma-BHC [Lindane]	0.213	0.05	ug/L	0.250		85.2	60-130	
Beta-BHC	0.222	0.05	ug/L	0.250		89.0	63-118	
Heptachlor	0.225	0.05	ug/L	0.250		89.8	67-130	
Delta-BHC	0.219	0.05	ug/L	0.250		87.5	65-143	
Aldrin	0.208	0.05	ug/L	0.250		83.3	59-114	
Heptachlor Epoxide	0.214	0.05	ug/L	0.250		85.6	56-129	
Endosulfan I	0.225	0.05	ug/L	0.250		89.8	64-134	
4,4'-DDE	0.225	0.05	ug/L	0.250		89.8	66-128	
Dieldrin	0.229	0.05	ug/L	0.250		91.8	62-121	
Endrin	0.249	0.05	ug/L	0.250		99.6	27-177	
4,4'-DDD	0.221	0.05	ug/L	0.250		88.4	64-131	
Endosulfan II	0.224	0.05	ug/L	0.250		89.4	68-130	
4,4'-DDT	0.224	0.05	ug/L	0.250		89.5	64-145	
Endrin Aldehyde	0.217	0.05	ug/L	0.250		86.6	50-135	
Endosulfan Sulfate	0.235	0.05	ug/L	0.250		93.9	72-121	
Methoxychlor	0.227	0.05	ug/L	0.250		91.0	60-157	
Surrogate: Tetrachloro-m-xylene	0.448		ug/L	0.600		74.7	45-111	
LCS Dup (1IK0050-BSD1)			Prepared: 11/03/25 14:29 Analyzed: 11/10/25 12:03					

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Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IK0050 - 3510C NP/OC Sep Fnl - EPA 8081A									
LCS Dup (1IK0050-BSD1)									
Prepared: 11/03/25 14:29 Analyzed: 11/10/25 12:03									
Alpha-BHC	0.216	0.05	ug/L	0.250		86.2 60-125	1.17	30	
Gamma-BHC [Lindane]	0.214	0.05	ug/L	0.250		85.6 60-130	0.443	30	
Beta-BHC	0.237	0.05	ug/L	0.250		94.7 63-118	6.18	30	
Heptachlor	0.232	0.05	ug/L	0.250		92.8 67-130	3.30	30	
Delta-BHC	0.224	0.05	ug/L	0.250		89.4 65-143	2.24	30	
Aldrin	0.205	0.05	ug/L	0.250		82.2 59-114	1.43	30	
Heptachlor Epoxide	0.215	0.05	ug/L	0.250		86.2 56-129	0.652	30	
Endosulfan I	0.221	0.05	ug/L	0.250		88.4 64-134	1.62	30	
4,4'-DDE	0.218	0.05	ug/L	0.250		87.2 66-128	2.97	30	
Dieldrin	0.225	0.05	ug/L	0.250		90.2 62-121	1.75	30	
Endrin	0.242	0.05	ug/L	0.250		96.7 27-177	2.95	30	
4,4'-DDD	0.217	0.05	ug/L	0.250		87.0 64-131	1.64	30	
Endosulfan II	0.221	0.05	ug/L	0.250		88.6 68-130	0.978	30	
4,4'-DDT	0.218	0.05	ug/L	0.250		87.3 64-145	2.49	30	
Endrin Aldehyde	0.210	0.05	ug/L	0.250		84.0 50-135	3.13	30	
Endosulfan Sulfate	0.232	0.05	ug/L	0.250		92.9 72-121	1.03	30	
Methoxychlor	0.220	0.05	ug/L	0.250		88.0 60-157	3.31	30	
Surrogate: Tetrachloro-m-xylene	0.416		ug/L	0.600		69.3 45-111			

Determination of Polychlorinated Biphenyls (PCB)	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IK0049 - 3510C NP/OC Sep Fnl - EPA 8082A									
Blank (1IK0049-BLK1)									
Prepared: 11/03/25 14:27 Analyzed: 11/10/25 11:35									
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	0.534		ug/L	0.600		89.1 50-116			
Surrogate: Decachlorobiphenyl	0.561		ug/L	0.600		93.6 38-122			
LCS (1IK0049-BS1)									
Prepared: 11/03/25 14:27 Analyzed: 11/10/25 12:31									
Arochlor 1016	2.229	0.20	ug/L	2.60		85.7 54-124			
Arochlor 1260	2.298	0.20	ug/L	2.60		88.4 66-138			
Surrogate: Tetrachloro-m-xylene	0.508		ug/L	0.600		84.7 50-116			
Surrogate: Decachlorobiphenyl	0.473		ug/L	0.600		78.8 38-122			



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Determination of	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Polychlorinated Biphenyls (PCB)										
Batch 1IK0049 - 3510C NP/OC Sep Fnl - EPA 8082A										
LCS Dup (1IK0049-BSD1)				Prepared: 11/03/25 14:27 Analyzed: 11/10/25 12:45						
Arochlor 1016	2.366	0.20	ug/L	2.60		91.0	54-124	5.97	20	
Arochlor 1260	2.478	0.20	ug/L	2.60		95.3	66-138	7.52	24	
Surrogate: Tetrachloro-m-xylene	0.525		ug/L	0.600		87.5	50-116			
Surrogate: Decachlorobiphenyl	0.553		ug/L	0.600		92.2	38-122			
Determination of	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Conventional Chemistry Parameters										
Batch 1IJ1827 - Wet Chem Preparation - SM 4500-S2- D-2011										
Blank (1IJ1827-BLK1)				Prepared: 10/31/25 12:42 Analyzed: 10/31/25 16:22						
Sulfide, total	<0.10	0.10	mg/L							
Sulfide, total	<0.10	0.10	mg/L							
LCS (1IJ1827-BS1)				Prepared: 10/31/25 12:42 Analyzed: 10/31/25 16:22						
Sulfide, total	<0.10	0.10	mg/L	0.102		82.1	56-120			
Sulfide, total	<0.10	0.10	mg/L	0.10		82.1	56-118			
Matrix Spike (1IJ1827-MS1)				Source: 1IJ2195-01		Prepared: 10/31/25 12:42 Analyzed: 10/31/25 16:22				
Sulfide, total	0.122	0.10	mg/L	0.102	ND	119	50-150			
Sulfide, total	0.122	0.10	mg/L	0.10	ND	119	50-150			
Matrix Spike Dup (1IJ1827-MSD1)				Source: 1IJ2195-01		Prepared: 10/31/25 12:42 Analyzed: 10/31/25 16:22				
Sulfide, total	0.109	0.10	mg/L	0.102	ND	106	50-150	11.7	30	
Sulfide, total	0.109	0.10	mg/L	0.10	ND	106	50-150	11.7	30	
Batch 1IK0238 - Wet Chem Preparation - EPA 9014										
Blank (1IK0238-BLK1)				Prepared & Analyzed: 11/05/25 16:07						
Cyanide, total	<0.010	0.010	mg/L							
LCS (1IK0238-BS1)				Prepared & Analyzed: 11/05/25 16:07						
Cyanide, total	0.0498	0.010	mg/L	0.0600		83.0	64-125			
Matrix Spike (1IK0238-MS1)				Source: 1IJ2324-06		Prepared & Analyzed: 11/05/25 16:07				
Cyanide, total	<0.010	0.010	mg/L	0.0600	ND		64-134			M2
Matrix Spike Dup (1IK0238-MSD1)				Source: 1IJ2324-06		Prepared & Analyzed: 11/05/25 16:07				
Cyanide, total	0.0382	0.010	mg/L	0.0600	ND	63.6	64-134		25	M2



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Definitions

B:	The target analyte was detected in the blank at or above the method acceptance criteria.
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.
Q3:	LCS recovery is below acceptance limits. The reported value is estimated.
Q7:	CCV recovery is above acceptance limits.
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:	3.7°C	Cooler ID:	New Cooler	Temp:	2.9°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
11/12/25 16:47

CHAIN OF CUSTODY RECORD



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SITE INFORMATION

Sampler: JCH

Project: Cass Co SLF

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Brandi Mericle CURIS JAHNKE
Cass County Landfill
65928 Jackson Rd
Atlantic, IA 50022

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY



HLW Engineering
PM: Heather Murphy

Temperature: 3.7/2.9 °C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	MW-15R	Aqueous	GRAB	10/27/25	8:06	7	Indfil-app1-metals-6020dfill-app1-voc-group	01
02-001	MW-12 <u>DET- NO SAMPLE</u>	Aqueous	GRAB				Indfil-app1-metals-6020dfill-app1-voc-group	
03-001	MW-19	Aqueous	GRAB	10/27/25	10:38	8	Indfil-app1-metals-6020dfill-app1-voc-group sulfide-t-4500d-low	02
04-001	MW-20	Aqueous	GRAB	10/27/25	10:47	8	Indfil-app1-metals-6020dfill-app1-voc-group sulfide-t-4500d-low	03
05-001	MW-21	Aqueous	GRAB	10/27/25	9:52	8	Indfil-app1-metals-6020dfill-app1-voc-group sulfide-t-4500d-low	04
06-001	MW-24	Aqueous	GRAB	10/27/25	11:00	7	Indfil-app1-metals-6020dfill-app1-voc-group	05
07-001	MW-37R	Aqueous	GRAB	10/27/25	13:22	18	Indfil-app2-org Indfil-app2-inorg-6020	06
08-001	MW-38R	Aqueous	GRAB	10/27/25	9:36	7	Indfil-app2-org Indfil-app2-inorg-6020 <u>Indfil-app1-metals 6020 & voc group</u>	07
09-001	MW-39	Aqueous	GRAB	10/27/25	11:44	7	Indfil-app1-metals-6020dfill-app1-voc-group	08

Relinquished By J. L. GaltDate/Time 10/28/25Relinquished By D. A. W. ZelleDate/Time 10-28-25 10:35

Received By

Date/Time

Received for Lab By

Date/Time

Remarks:

CHAIN OF CUSTODY RECORD



600 East 17th Street South
Newton, IA 50208
Phone: 641-792-8451

Page 2 of 3

Printed: 9/29/2025 4:48:50PM

Page 82 of 83

SITE INFORMATION

Sampler: Leit

Project: Cass Co SLF

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

~~Brandi Mericle~~ CHRIS JANKKE
Cass County Landfill
65928 Jackson Rd
Atlantic, IA 50022

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY



1 I J 2 3 2 4

HLW Engineering
PM: Heather Murphy

Temperature: 3.7/2.9 °C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
10-001	MW-43	Aqueous	GRAB	10/27/25	9:20	7	Indfil-app1-metals-6020dfill-app1-voc-group	09
11-001	UD-0 - DRY - NO SAMPLE	Aqueous	GRAB				Indfil-app1-metals-6020dfill-app1-voc-group	
12-001	UD-1 DRY - NO SAMPLE	Aqueous	GRAB				Indfil-app1-metals-6020dfill-app1-voc-group	
13-001	MW-13	Aqueous	GRAB	10/27/25	9:05	7	Indfil-app1-metals-6020dfill-app1-voc-group	10
14-001	MW-22	Aqueous	GRAB	10/27/25	12:44	7	Indfil-app1-metals-6020dfill-app1-voc-group	11
15-001	MW-11	Aqueous	GRAB	10/27/25	8:55	7	Indfil-app1-metals-6020dfill-app1-voc-group	12
16-001	MW-23	Aqueous	GRAB	10/27/25	10:03	7	Indfil-app1-metals-6020dfill-app1-voc-group	13
17-001	MW-36	Aqueous	GRAB	10/27/25	11:28	7	Indfil-app1-metals-6020dfill-app1-voc-group	14
18-001	Duplicate	Aqueous	GRAB	10/27/25	8:27	1	Indfil-app1-metals-6020	15
19-001	MW-40	Aqueous	GRAB	10/27/25	8:25	1	Indfil-app1-metals-6020	16

Relinquished By SLC/HS Date/Time 10/28/25

Received By _____ Date/Time _____

Relinquished By _____ Date/Time _____

Received for Lab By Heather Murphy Date/Time 10-28-25 10:35

Remarks:

CHAIN OF CUSTODY RECORD



600 East 17th Street South
Newton, IA 50208
Phone: 641-792-8451

Page 3 of 3

Printed: 9/29/2025 4:48:50PM

Page 83 of 83

SITE INFORMATION

Sampler:

Project: Cass Co SLF

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

~~Brandi Mericle~~ *CHRIS JANKE*
Cass County Landfill
65928 Jackson Rd
Atlantic, IA 50022

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY



1 I J 2 3 2 4

HLW Engineering
PM: Heather Murphy

Temperature: 3.7/2.9 °C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
20-001	MW-41	Aqueous	GRAB	10/27/25	8:27	1	Indfil-app1-metals-6020	17
21-001	MW-42 <i>NOT SAMPLED</i>	Aqueous	GRAB				Indfil-app1-metals-6020	
22-001	MW-27	Aqueous	GRAB	10/27/25	12:20	1	Indfil-app1-metals-6020	18
23-001	MW-28	Aqueous	GRAB	10/27/25	12:25	1	Indfil-app1-metals-6020	19
24-001	MW-29	Aqueous	GRAB	10/27/25	12:07	1	Indfil-app1-metals-6020	20
25-001	MW-32 <i>DRY-NO SAMPLE</i>	Aqueous	GRAB	10/27/25			Indfil-app1-metals-6020	

J. Collett

10/28/25

Relinquished By

Date/Time

Relinquished By

Date/Time

Received By

Date/Time

Received for Lab By

Date/Time

Remarks:

Dan Riel 10-28-25 10:35



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11L0698

Project Description

Cass Co SLF

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Thursday, December 18, 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

1IL0698

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: Cass Co SLF

Project / PO Number: N/A
Received: 12/08/2025
Reported: 12/18/2025

Case Narrative

Amended Report, December 17, 2025: Sample 1IL0698-01 was re-analyzed for copper using EPA method 6020A to achieve a lower reporting limit. The results of both analyses are included in this report.

James Eggers
Quality Assurance Officer

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-43	1IL0698-01	Aqueous	GRAB		12/05/25 13:29	12/08/25 10:50



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11L0698

Analytical Testing Parameters

Client Sample ID:	MW-43	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	12/05/2025 13:29
Lab Sample ID:	11L0698-01		

Metals Total by ICP	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 200.7, Rv. 4.4 (1994)							
Nickel	<0.010	0.010	mg/L		12/10/25 0700	12/10/25 2037	JAR
Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Nickel	0.0087	0.0050	mg/L		12/16/25 0612	12/17/25 0001	JAR



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11L0698

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
		11L0698-01	MW-43
Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	11L0855	11L0855-BLK1	
		11L0855-BS1	
		11L0855-MS1	11L0696-01
		11L0855-MSD1	11L0696-01
		11L0855-PS1	11L0696-01
		11L0698-01	MW-43

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						
Nickel	<0.010	0.010	mg/L							
LCS (11L0547-BS1)				Prepared: 12/10/25 07:00 Analyzed: 12/10/25 18:57						
Nickel	0.204	0.010	mg/L	0.200		102	85-115			
Matrix Spike (11L0547-MS1)				Source: 11L0664-01 Prepared: 12/10/25 07:00 Analyzed: 12/10/25 19:20						
Nickel	0.269	0.010	mg/L	0.200	0.0585	105	70-130			
Matrix Spike Dup (11L0547-MSD1)				Source: 11L0664-01 Prepared: 12/10/25 07:00 Analyzed: 12/10/25 19:26						
Nickel	0.266	0.010	mg/L	0.200	0.0585	104	70-130	1.26	20	
Post Spike (11L0547-PS1)				Source: 11L0664-01 Prepared: 12/10/25 07:00 Analyzed: 12/10/25 19:31						
Nickel	0.880		mg/L	0.800	0.0585	103	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										
Blank (11L0855-BLK1)				Prepared: 12/16/25 06:12 Analyzed: 12/16/25 23:36						
Nickel	<0.0050	0.0050	mg/L							
LCS (11L0855-BS1)				Prepared: 12/16/25 06:12 Analyzed: 12/16/25 23:38						
Nickel	0.0953	0.0050	mg/L	0.100		95.3	80-120			
Matrix Spike (11L0855-MS1)				Source: 11L0696-01 Prepared: 12/16/25 06:12 Analyzed: 12/16/25 23:43						
Nickel	0.0989	0.0050	mg/L	0.100	0.0048	94.1	75-125			
Matrix Spike Dup (11L0855-MSD1)				Source: 11L0696-01 Prepared: 12/16/25 06:12 Analyzed: 12/16/25 23:46						
Nickel	0.0963	0.0050	mg/L	0.100	0.0048	91.5	75-125	2.66	20	
Post Spike (11L0855-PS1)				Source: 11L0696-01 Prepared: 12/16/25 06:12 Analyzed: 12/16/25 23:49						
Nickel	0.0237		mg/L	0.0200	0.0048	94.3	80-120			

Microbac Laboratories, Inc., Newton

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IL0698

Definitions

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		

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
12/18/25 08:19

Keystone

LABORATORIES, INC.

☐ 600 E. 17th St. S.
Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989



HLW Engineering
PM: Heather Murphy

St Paul
City, KS 66105
913-321-7856
913-831-6778

☐ 205 E VanBuren St
Centerville, IA 52544
Phone: 641-437-7023
Fax: 641-437-7040

PAGE 1 OF 1

Page 6 of 6

PRINT OR TYPE INFORMATION BELOW

SAMPLER: JGH
SITE NAME: CASS CO SLF
ADDRESS: _____
CITY/ST/ZIP: _____
PHONE: _____

REPORT TO:
NAME: TODD WHIPPLE
COMPANY NAME: HLW ENG
ADDRESS: PO Box 31A
CITY/ST/ZIP: STORY CITY, IA 50248
PHONE: 515-733-4144
FAX: 515-733-4146

BILL TO:
NAME: CHRIS JANKKE
COMPANY NAME: CASS CO SLF
ADDRESS: 65928 JACKSON RD
CITY/ST/ZIP: ATLANTIC, IA 50022
PHONE: _____
Keystone Quote No: _____
(If Applicable)

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED										LAB USE ONLY	
							Carbon Disulfide	Nickel, Total									LABORATORY WORK ORDER NO.	LABORATORY SAMPLE NUMBER
~~MW 13~~	~~12/8/25~~	~~13:15~~	<del></del>	~~3~~	~~WATER~~	~~6~~												
MW 43	12/8/25	13:29		1	WATER	6		X										01

Relinquished by: (Signature) 	Date 12/8/25	Received by: (Signature) 	Date 12/8/25	Turn-Around: ☐ Standard ☐ Rush Contact Lab Prior to Submission
	Time		Time	
Relinquished by: (Signature)	Date 12/8/25	Received for Lab by: (Signature) 	Date 12/8/25	Remarks:
	Time		Time 10:50	

Appendix E

Field Turbidity (NTU) Summary

Cass County Sanitary Landfill
Field Turbidity Over Time

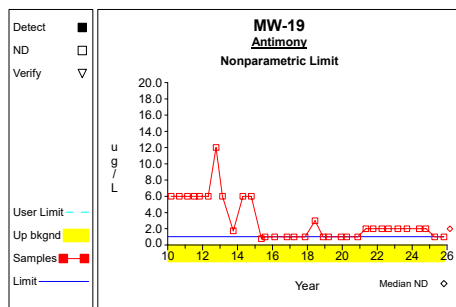
No-Purge Sampling

	10/14/2025	4/16/2025	7/14/2025	10/27/2025	12/5/2025
MW	Field Turbidity NTU	Field Turbidity NTU	Field Turbidity NTU	Field Turbidity NTU	Field Turbidity NTU
15R	14.00	6.51	3.49	5.08	
12		dry		dry	
13	55.47	5.57		4.95	
19	1.72	1.78		2.31	
20	6.56	12.00		8.06	
21	4.75	5.73		4.04	
24	44.20	24.00		9.94	
27		2.44		0.77	
28		3.54		2.02	
29		2.55		1.11	
32		dry		dry	
37R	2.37	2.67		2.02	
38R	398.00	6.56		4.25	
39	2.04	4.19		1.62	
40		482.00		1.86	
41		3.42		2.32	
43	4.37	4.22		9.09	13.10
22	5.35	2.07		1.56	
11	3.70	10.80	7.88	2.35	
23	2.86	2.22		3.27	
36	4.24	3.33		25.10	
UD-0	dry	dry		dry	
UD-1	dry	dry		dry	

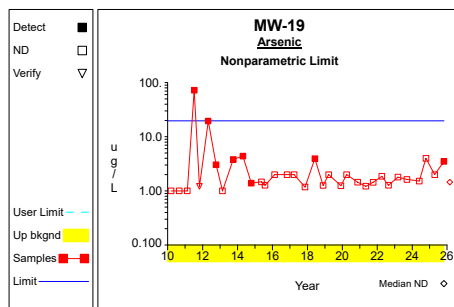
Appendix F

Time Series Plots MW-12 and MW-20

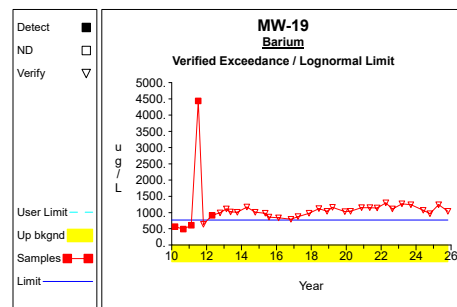
Up vs. Down Prediction Limits



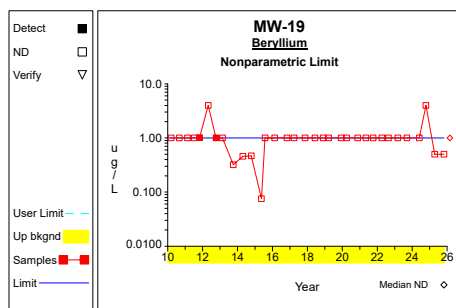
Graph 1



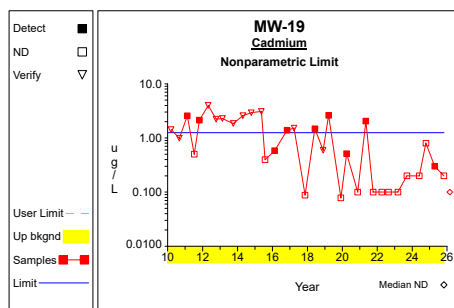
Graph 2



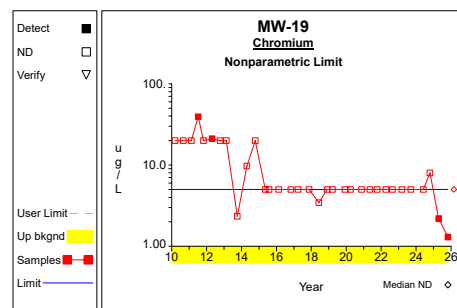
Graph 3



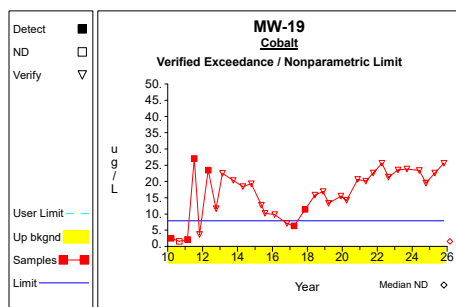
Graph 4



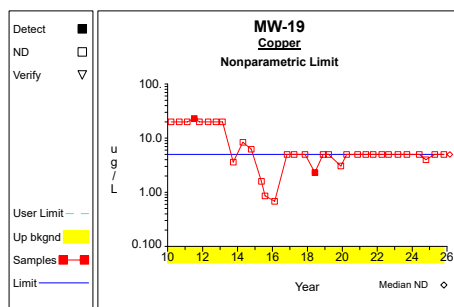
Graph 5



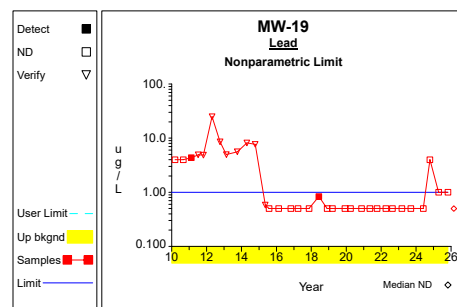
Graph 6



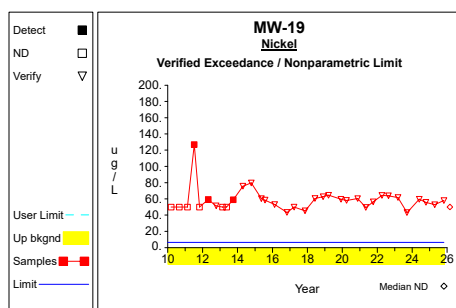
Graph 7



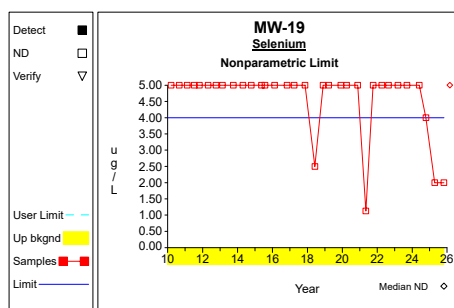
Graph 8



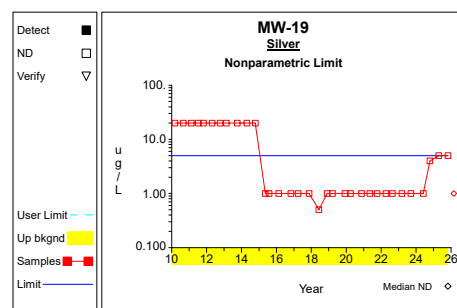
Graph 9



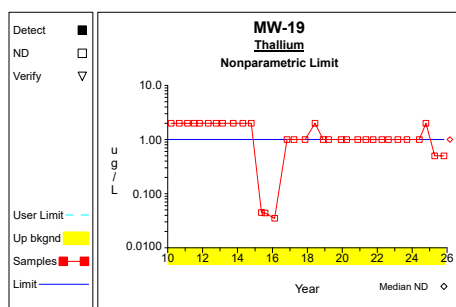
Graph 10



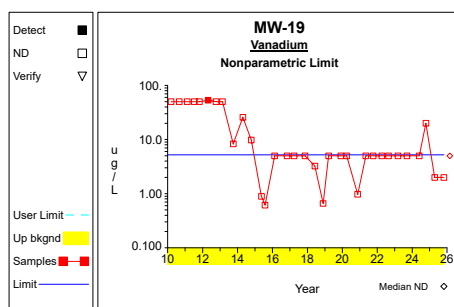
Graph 11



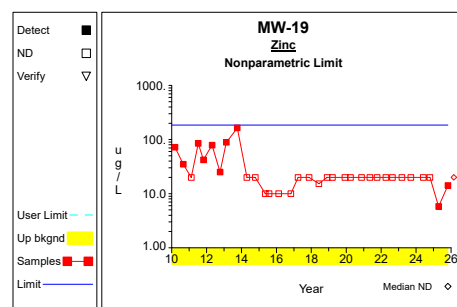
Graph 12



Graph 13

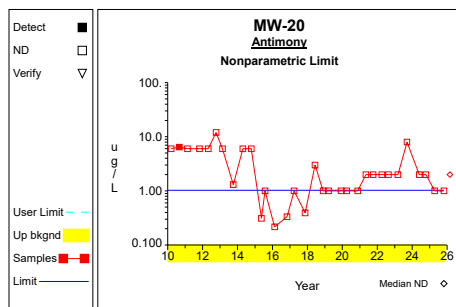


Graph 14

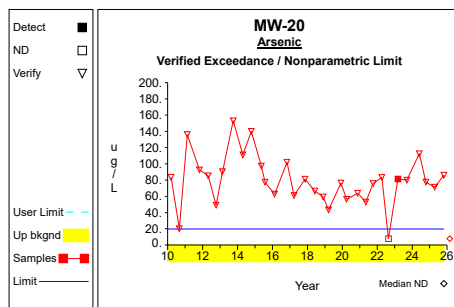


Graph 15

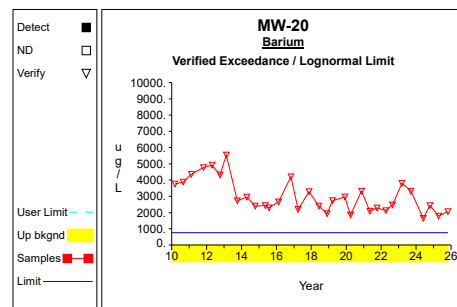
Up vs. Down Prediction Limits



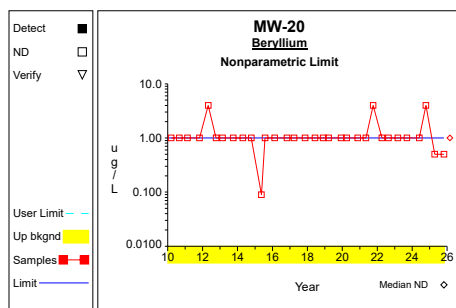
Graph 16



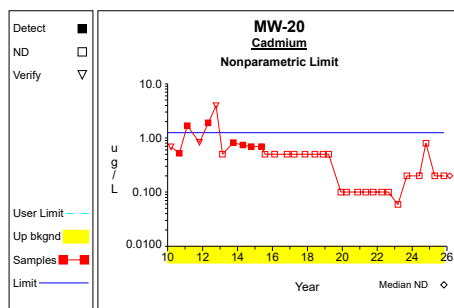
Graph 17



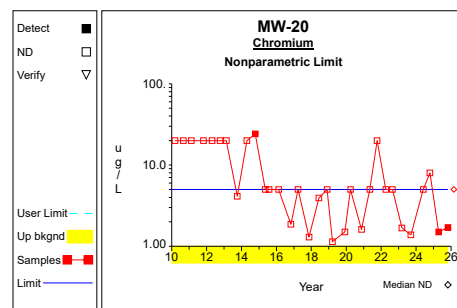
Graph 18



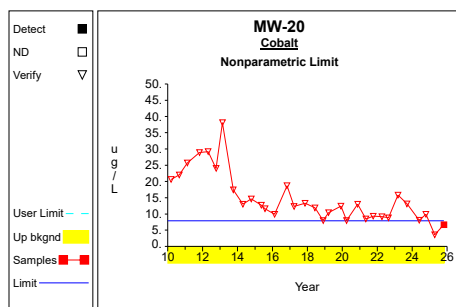
Graph 19



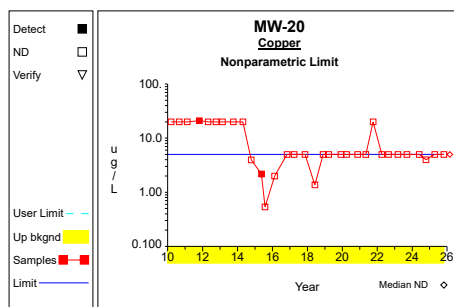
Graph 20



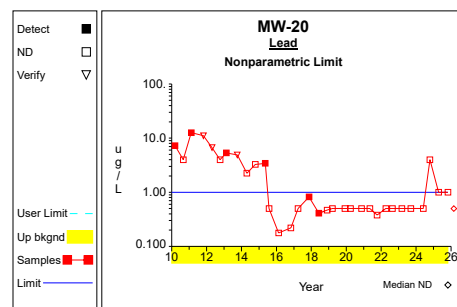
Graph 21



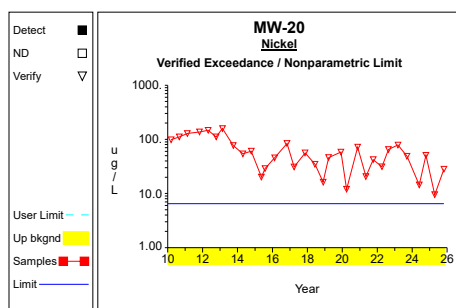
Graph 22



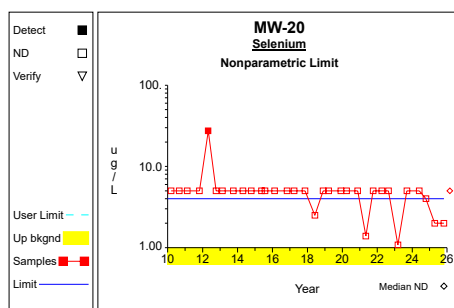
Graph 23



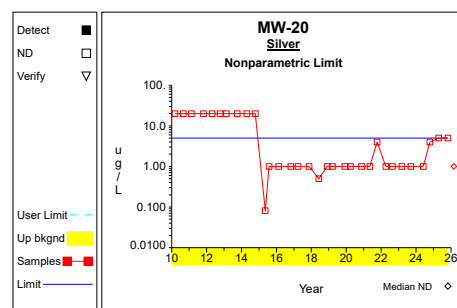
Graph 24



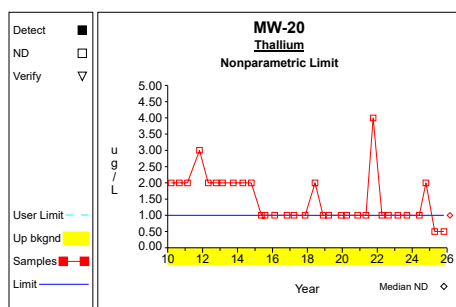
Graph 25



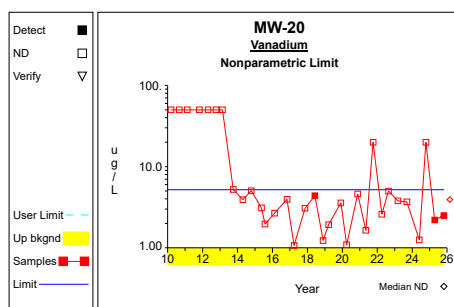
Graph 26



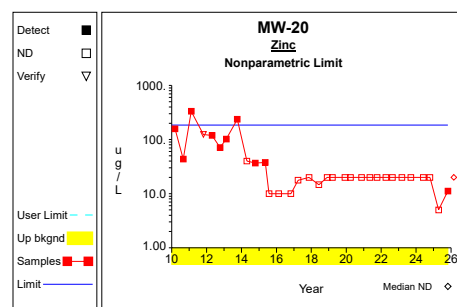
Graph 27



Graph 28

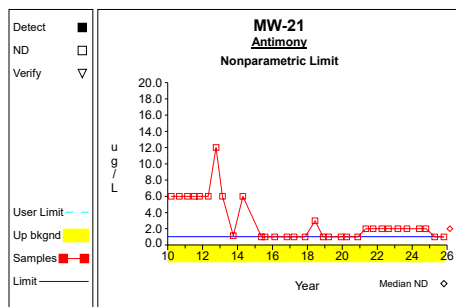


Graph 29

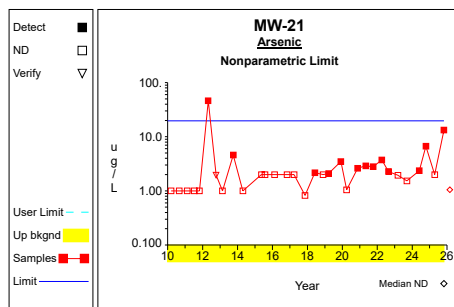


Graph 30

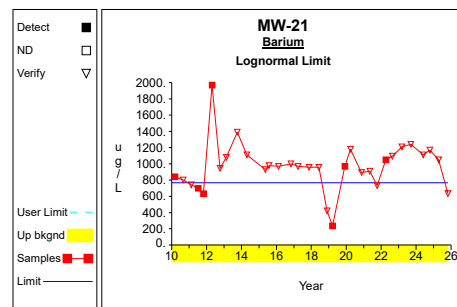
Up vs. Down Prediction Limits



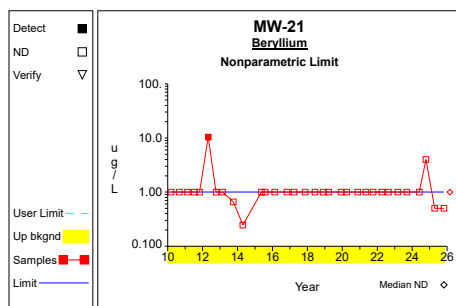
Graph 31



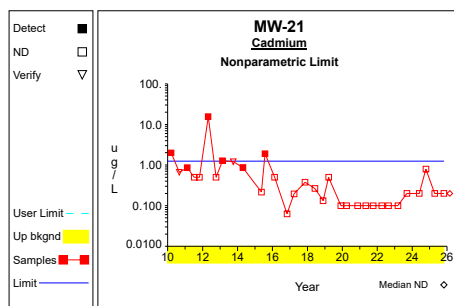
Graph 32



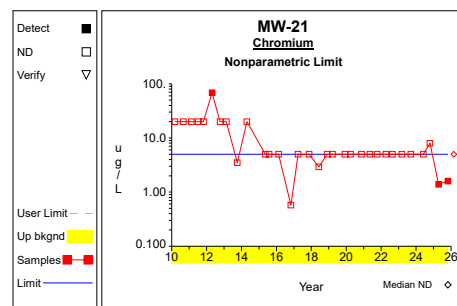
Graph 33



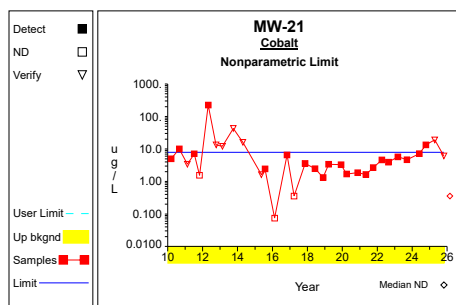
Graph 34



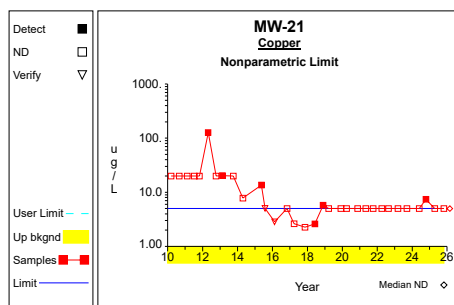
Graph 35



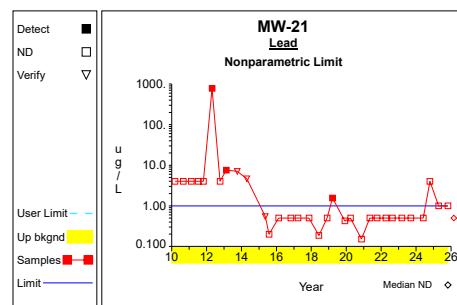
Graph 36



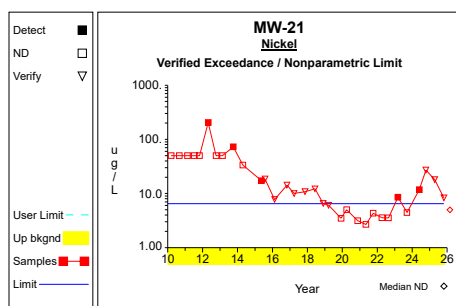
Graph 37



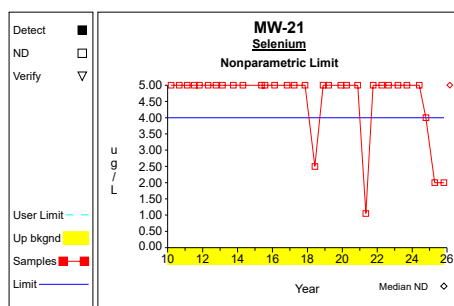
Graph 38



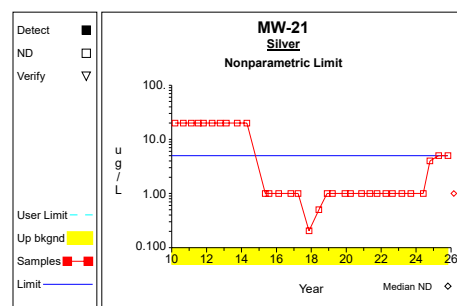
Graph 39



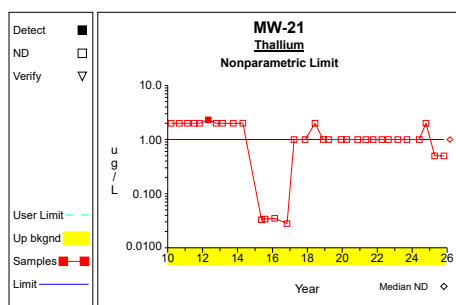
Graph 40



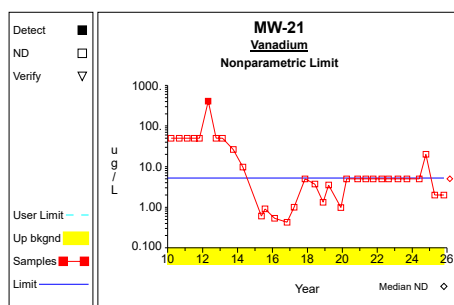
Graph 41



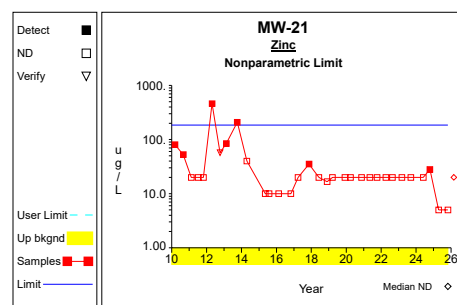
Graph 42



Graph 43

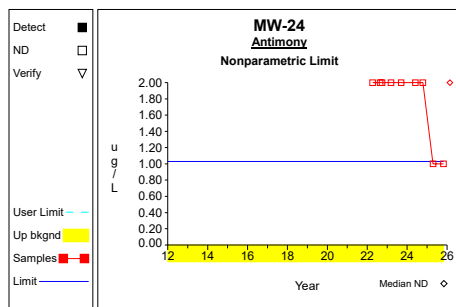


Graph 44

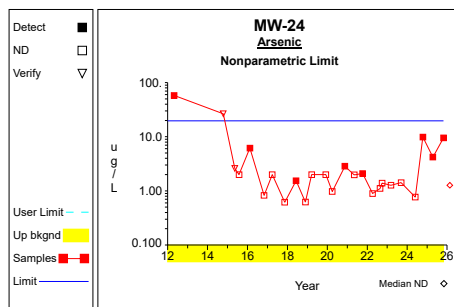


Graph 45

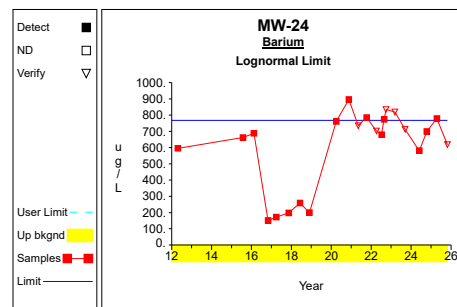
Up vs. Down Prediction Limits



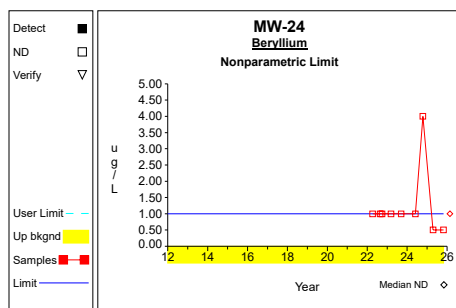
Graph 46



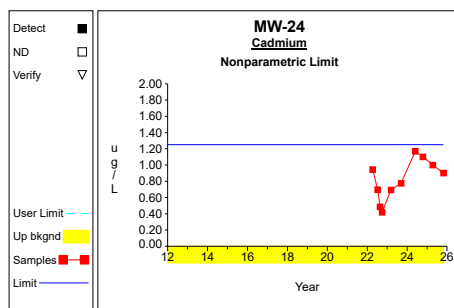
Graph 47



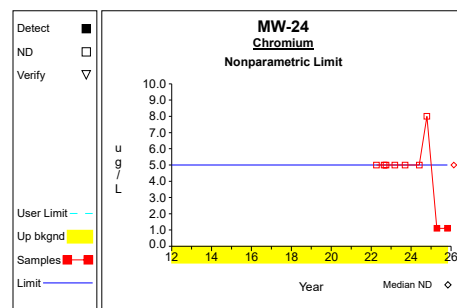
Graph 48



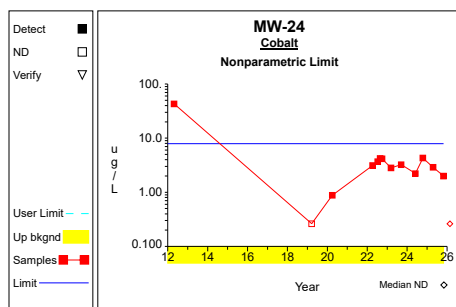
Graph 49



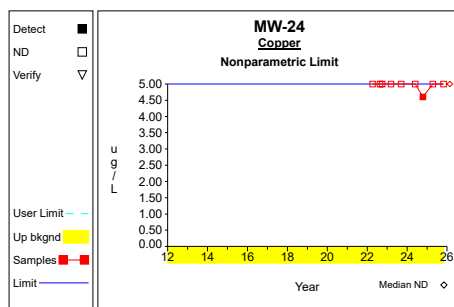
Graph 50



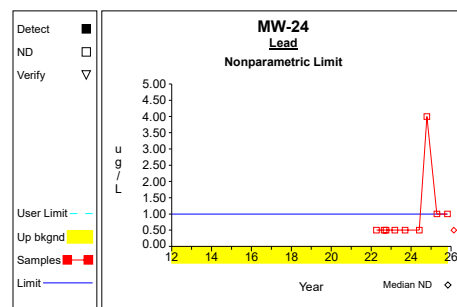
Graph 51



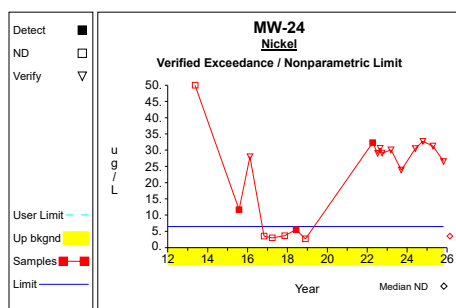
Graph 52



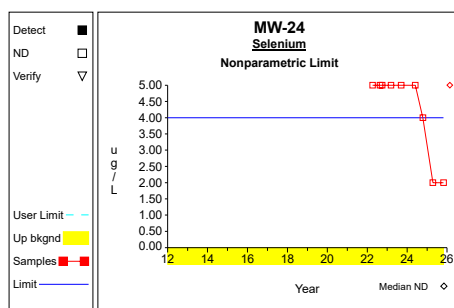
Graph 53



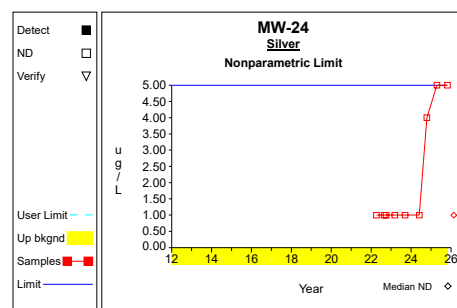
Graph 54



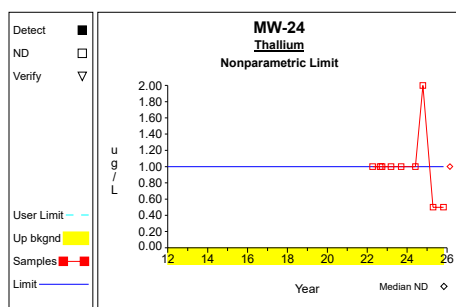
Graph 55



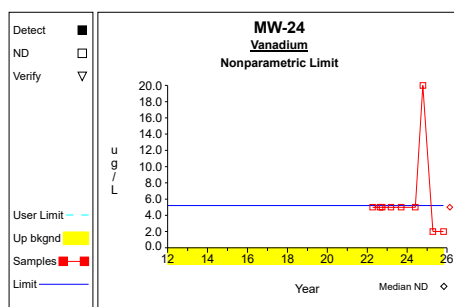
Graph 56



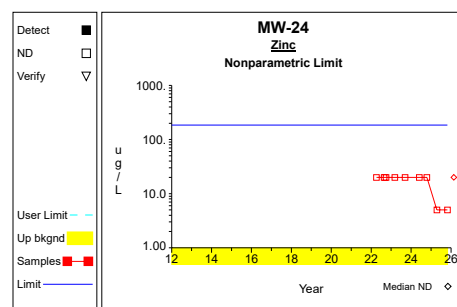
Graph 57



Graph 58

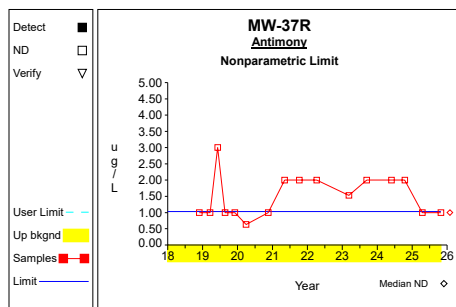


Graph 59

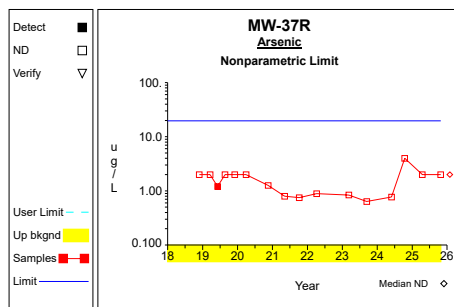


Graph 60

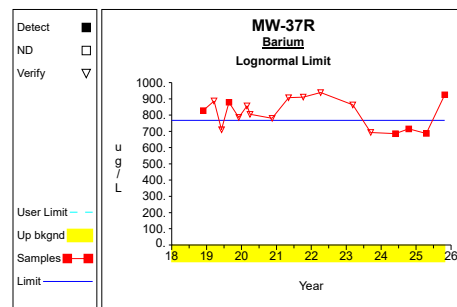
Up vs. Down Prediction Limits



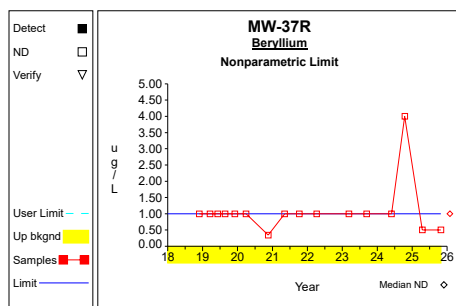
Graph 61



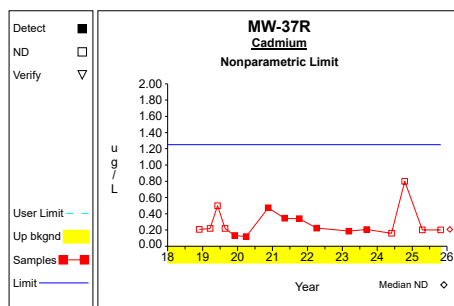
Graph 62



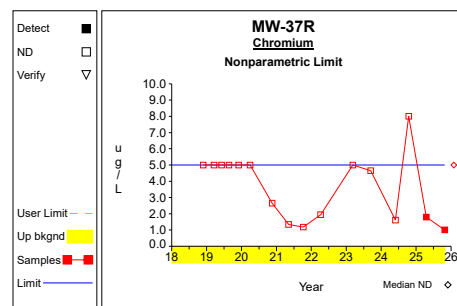
Graph 63



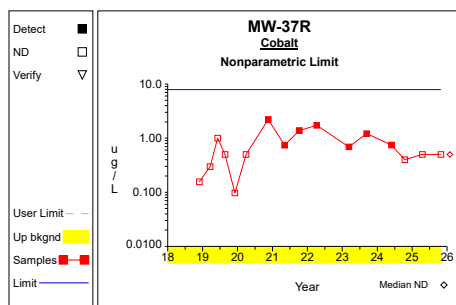
Graph 64



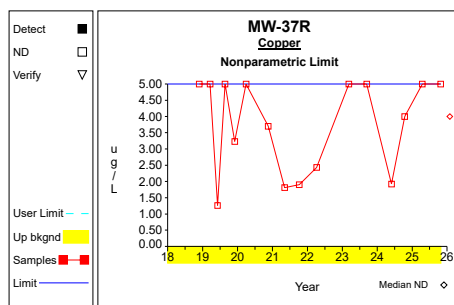
Graph 65



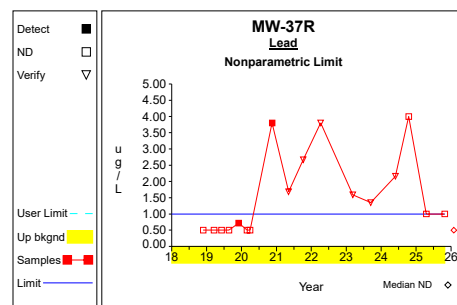
Graph 66



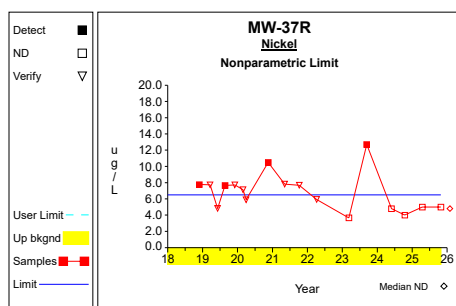
Graph 67



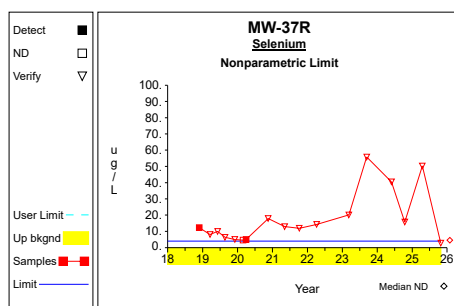
Graph 68



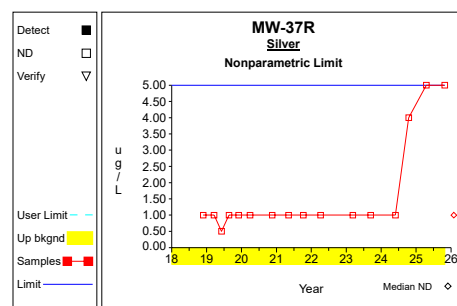
Graph 69



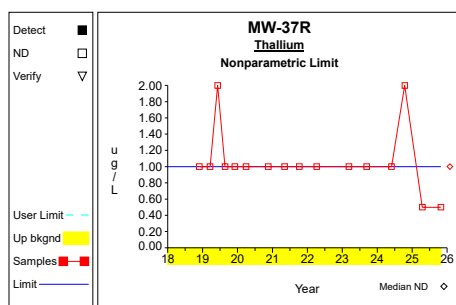
Graph 70



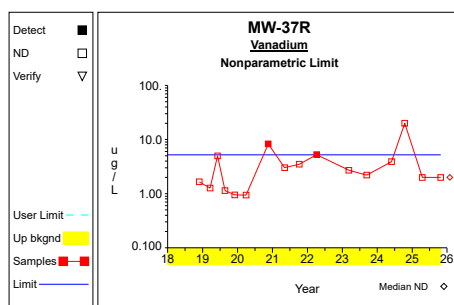
Graph 71



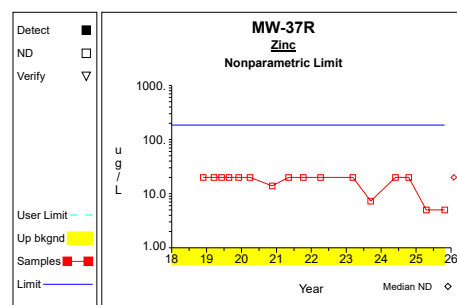
Graph 72



Graph 73

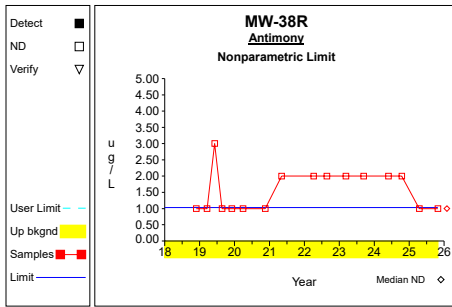


Graph 74

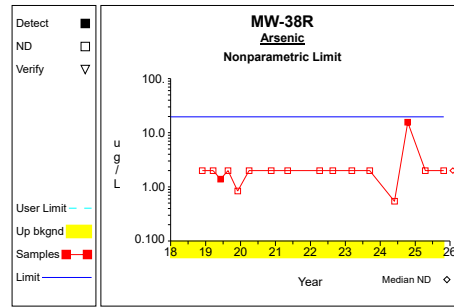


Graph 75

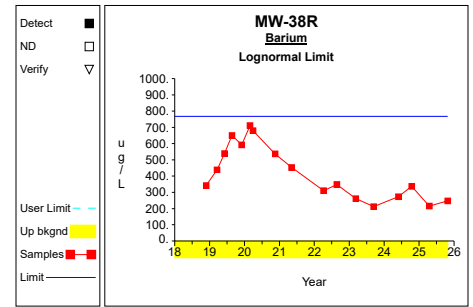
Up vs. Down Prediction Limits



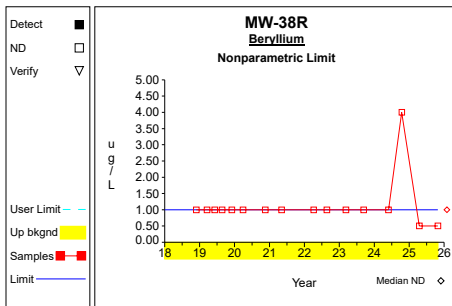
Graph 76



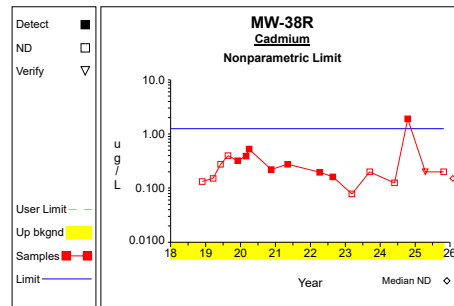
Graph 77



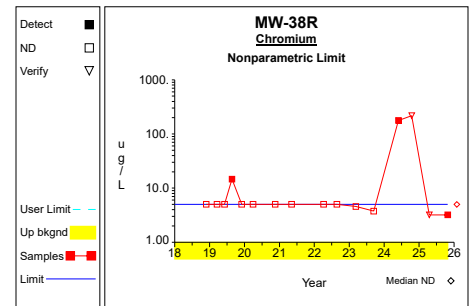
Graph 78



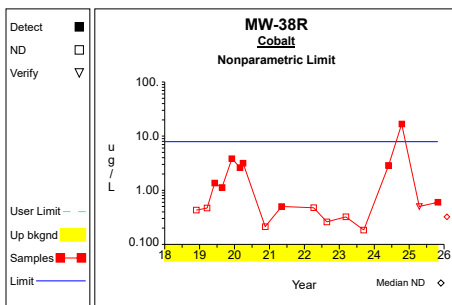
Graph 79



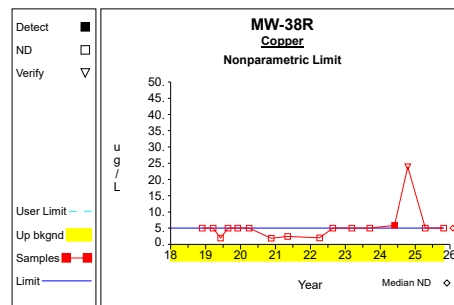
Graph 80



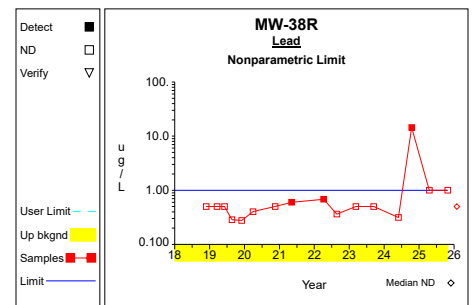
Graph 81



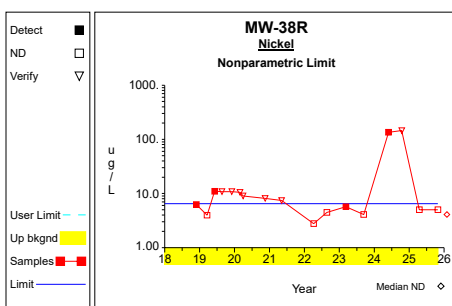
Graph 82



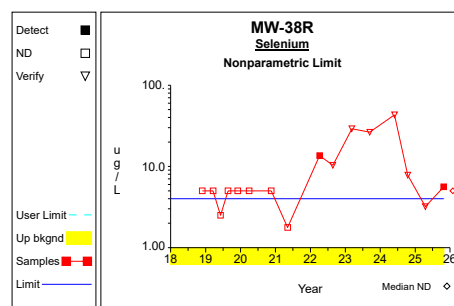
Graph 83



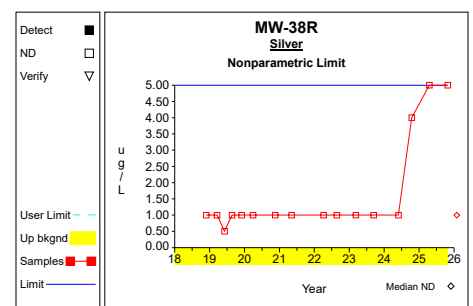
Graph 84



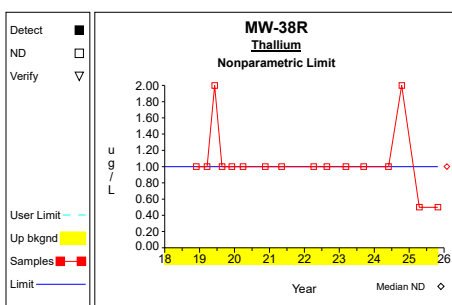
Graph 85



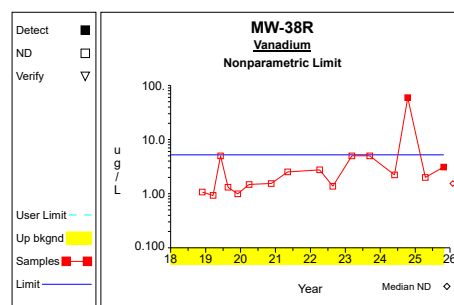
Graph 86



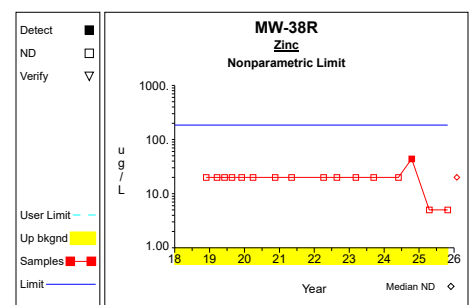
Graph 87



Graph 88

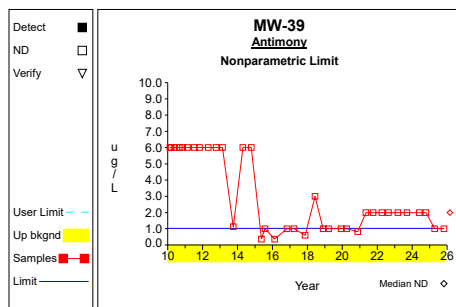


Graph 89

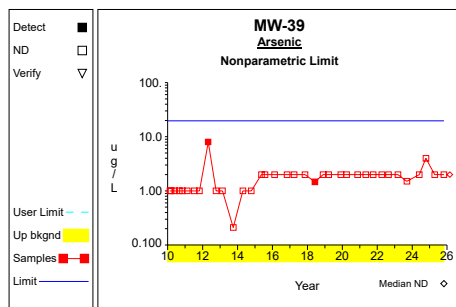


Graph 90

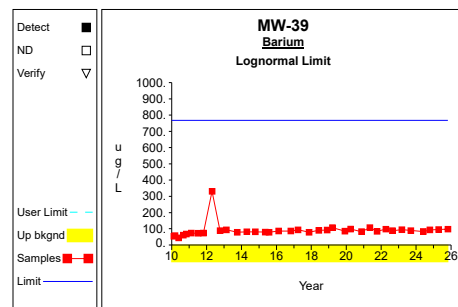
Up vs. Down Prediction Limits



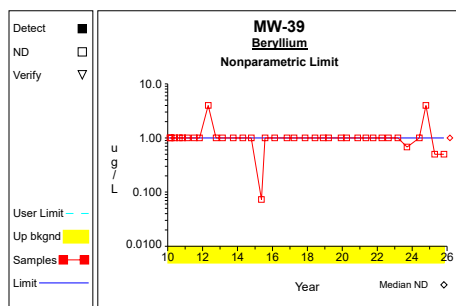
Graph 91



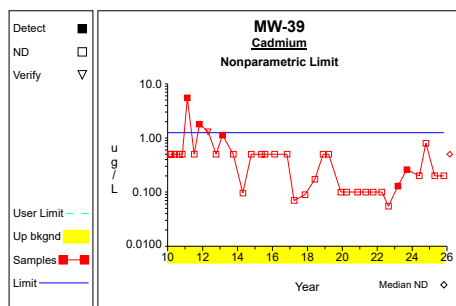
Graph 92



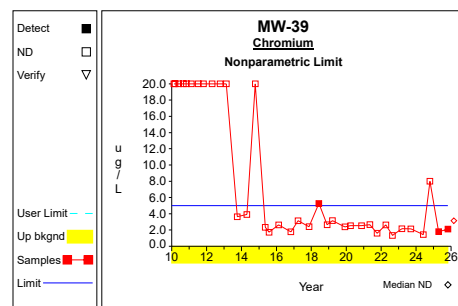
Graph 93



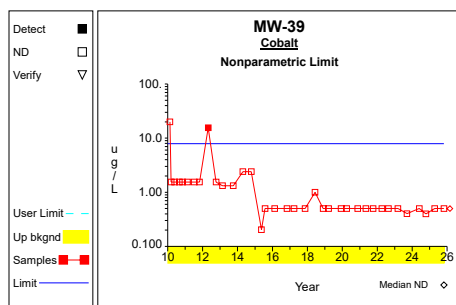
Graph 94



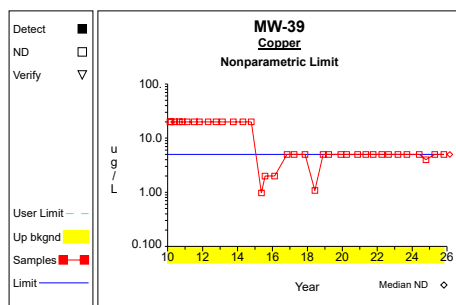
Graph 95



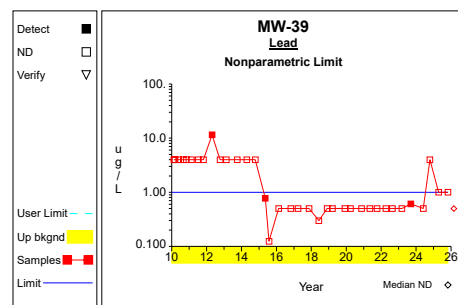
Graph 96



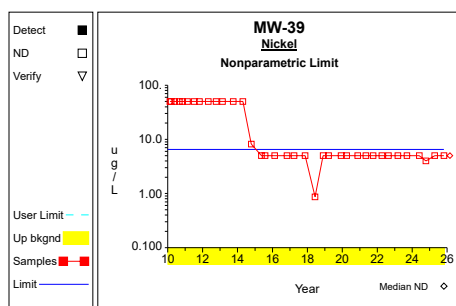
Graph 97



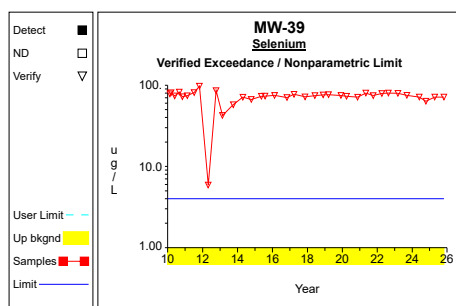
Graph 98



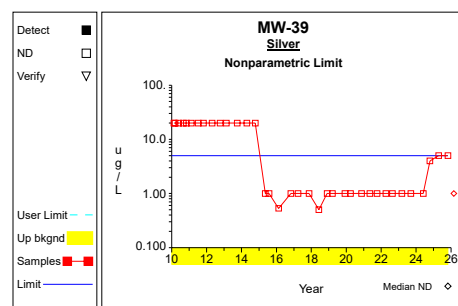
Graph 99



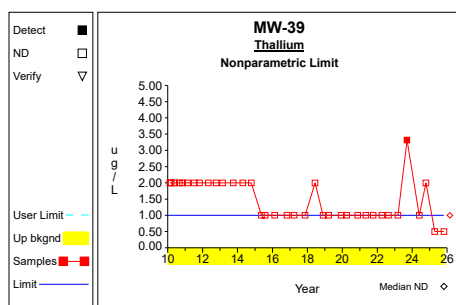
Graph 100



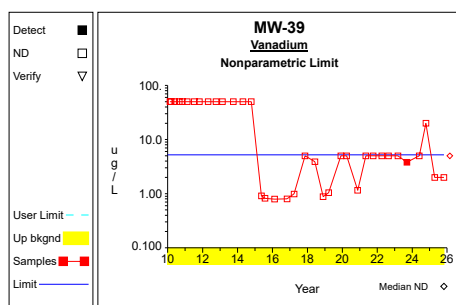
Graph 101



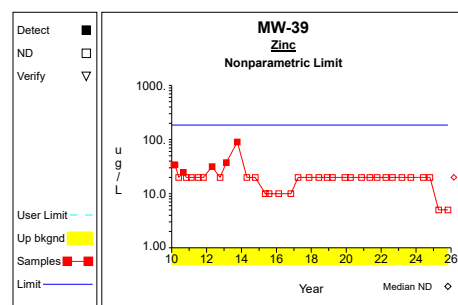
Graph 102



Graph 103

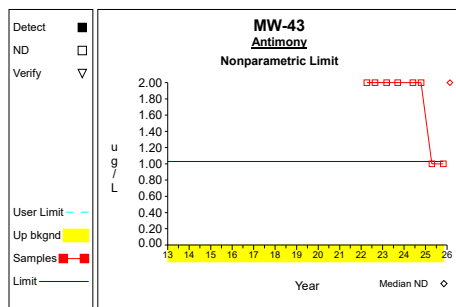


Graph 104

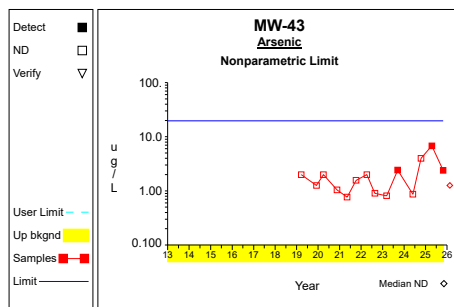


Graph 105

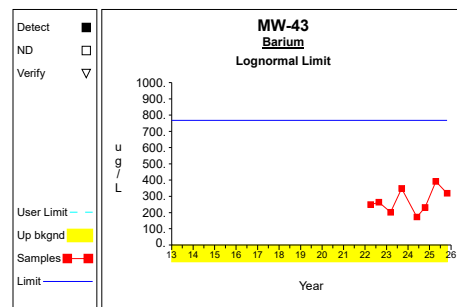
Up vs. Down Prediction Limits



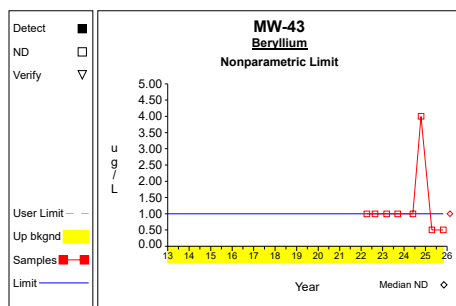
Graph 106



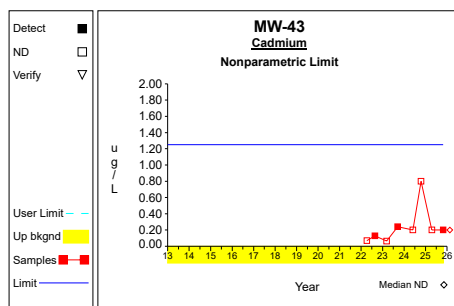
Graph 107



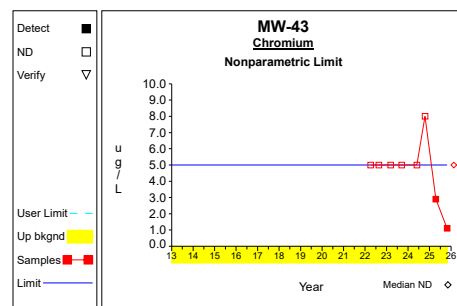
Graph 108



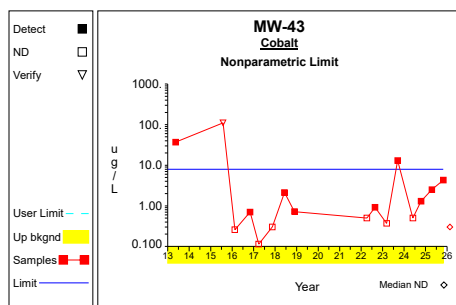
Graph 109



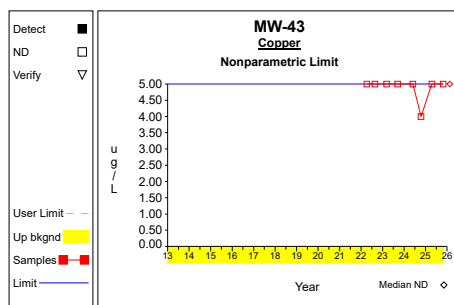
Graph 110



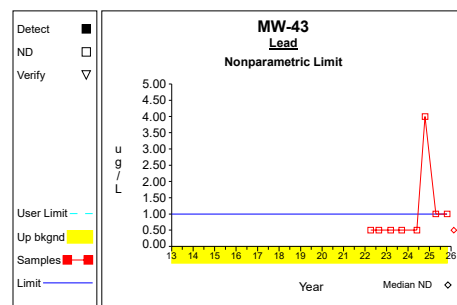
Graph 111



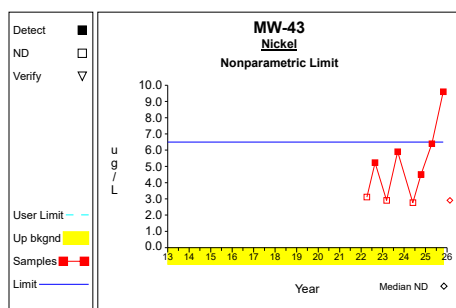
Graph 112



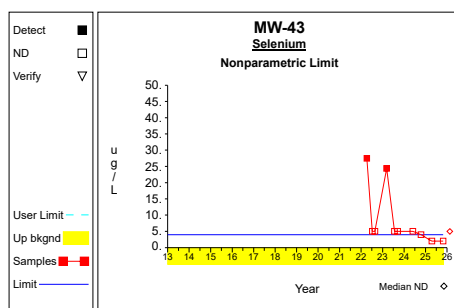
Graph 113



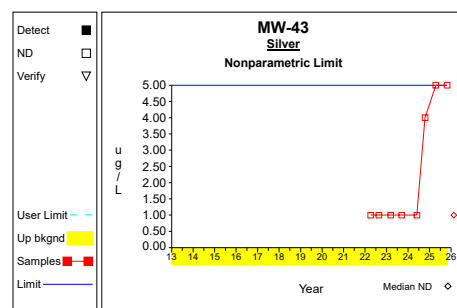
Graph 114



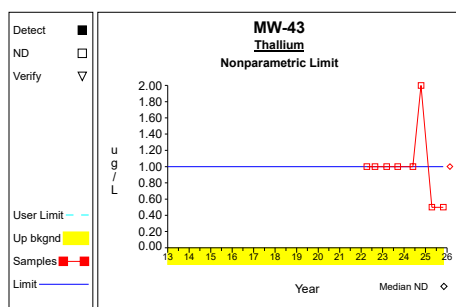
Graph 115



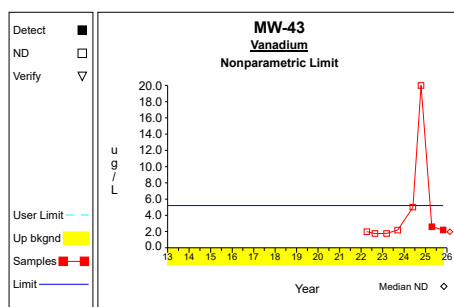
Graph 116



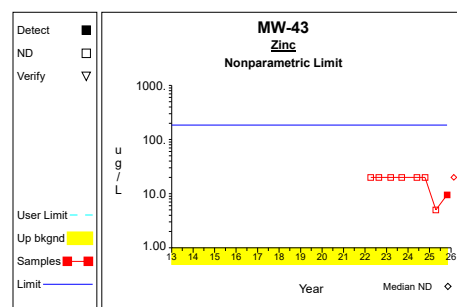
Graph 117



Graph 118

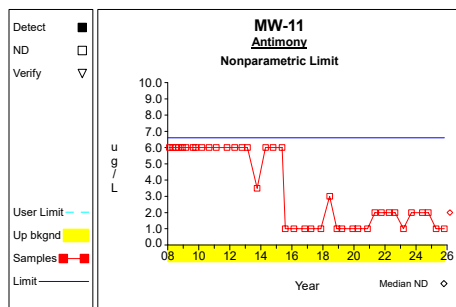


Graph 119

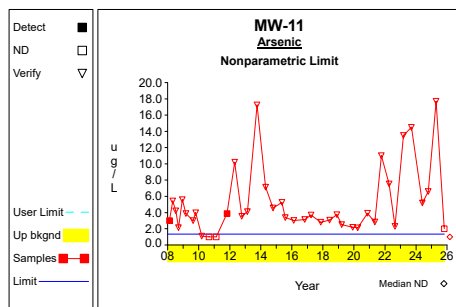


Graph 120

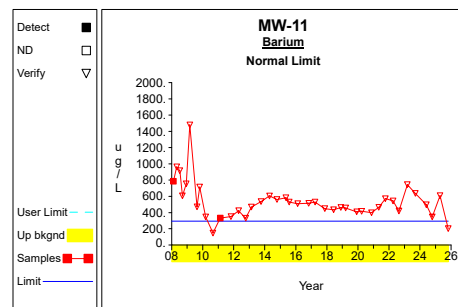
Up vs. Down Prediction Limits



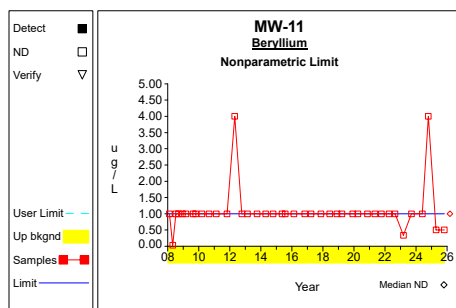
Graph 1



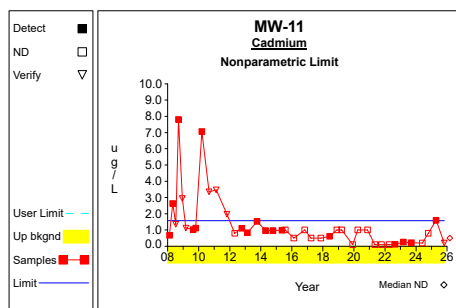
Graph 2



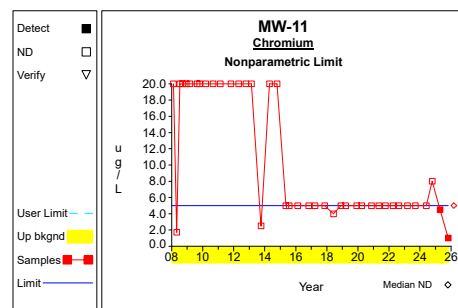
Graph 3



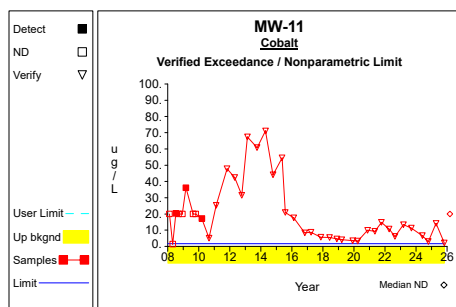
Graph 4



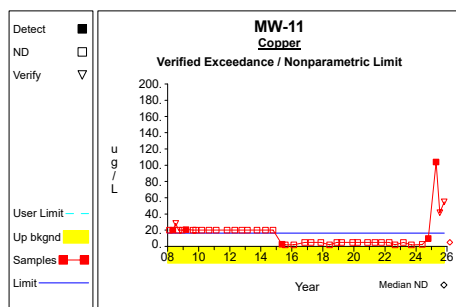
Graph 5



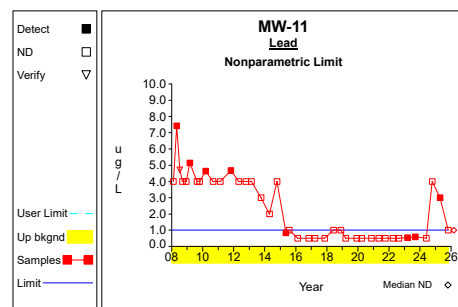
Graph 6



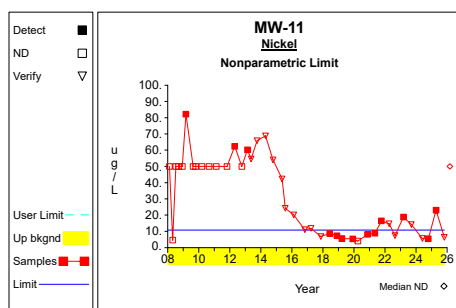
Graph 7



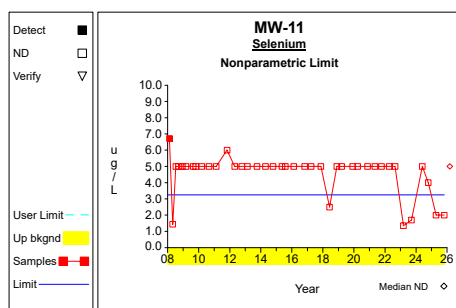
Graph 8



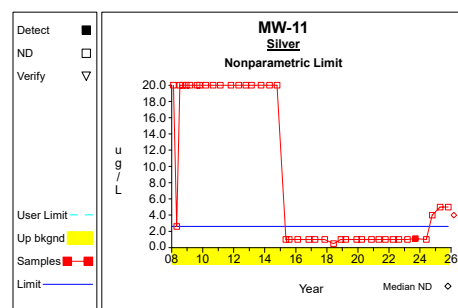
Graph 9



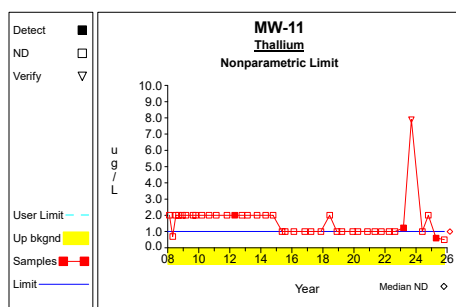
Graph 10



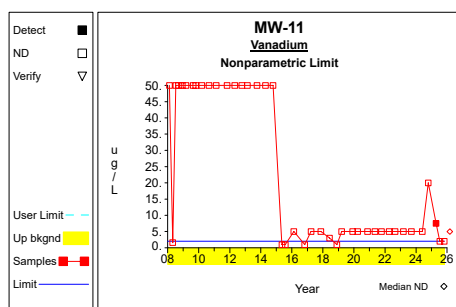
Graph 11



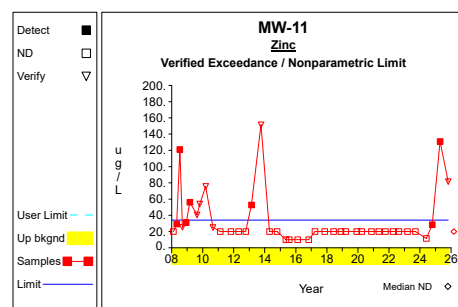
Graph 12



Graph 13

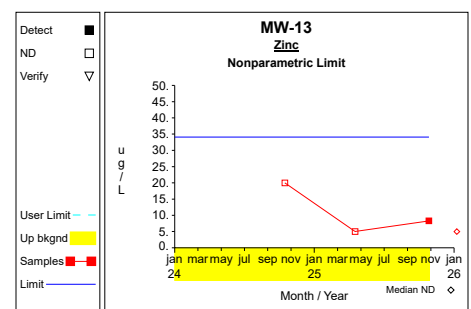
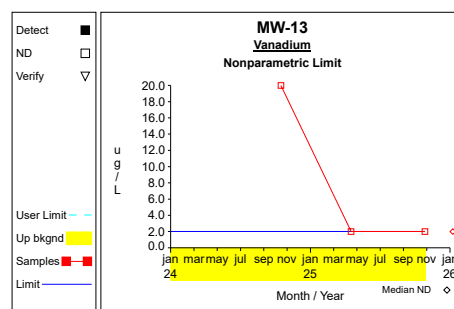
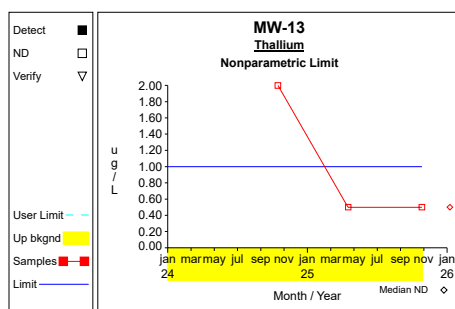
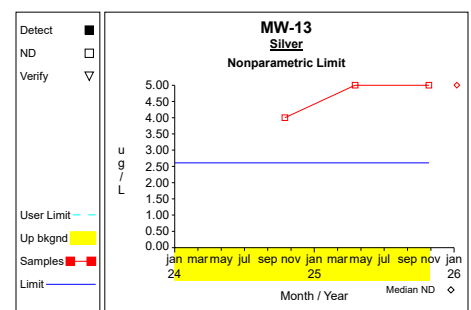
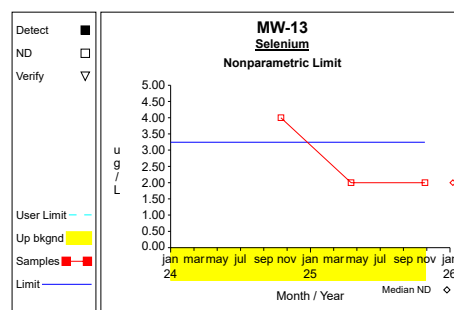
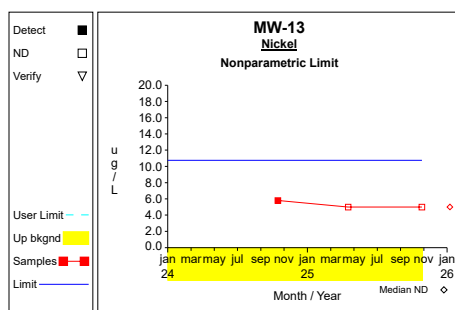
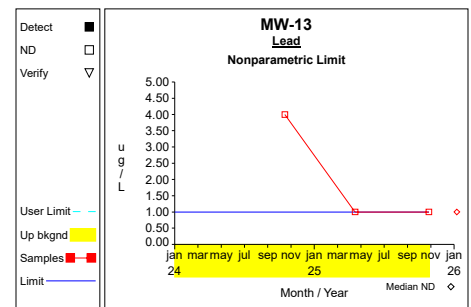
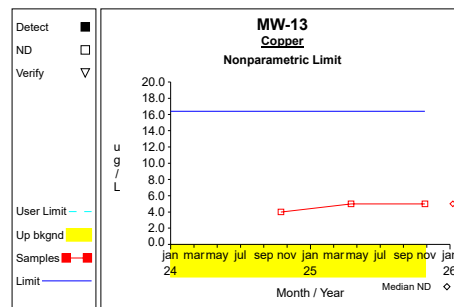
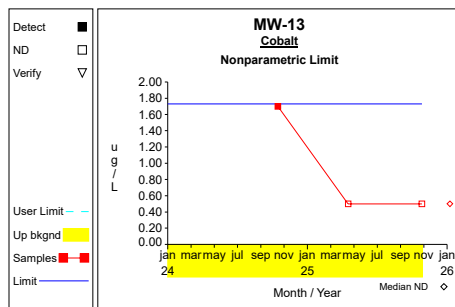
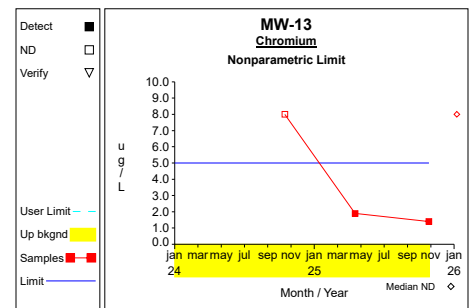
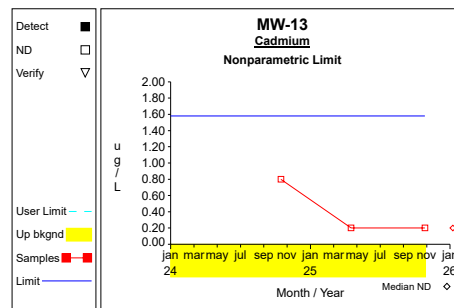
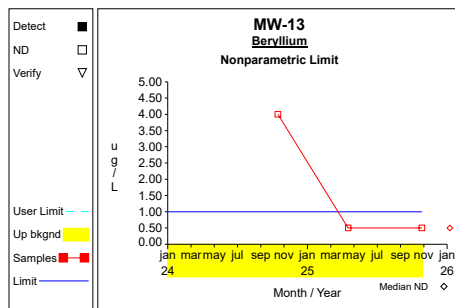
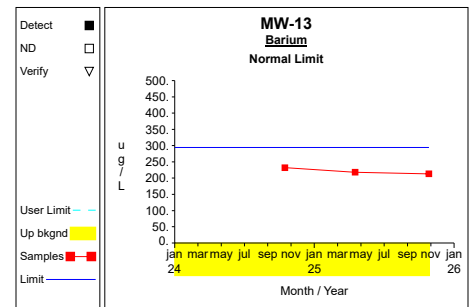
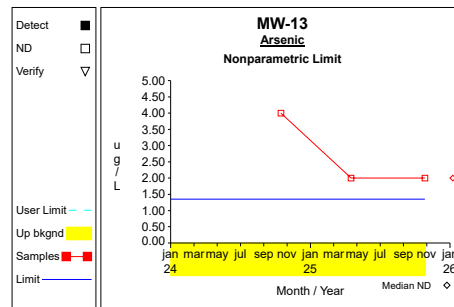
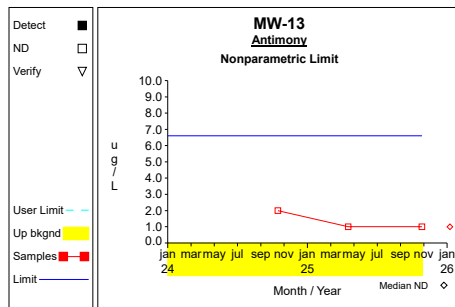


Graph 14

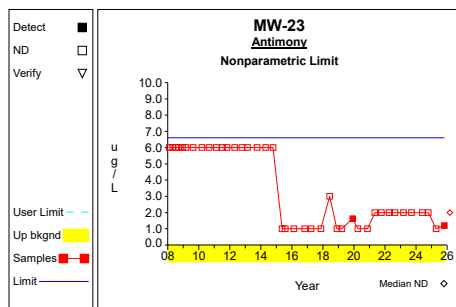


Graph 15

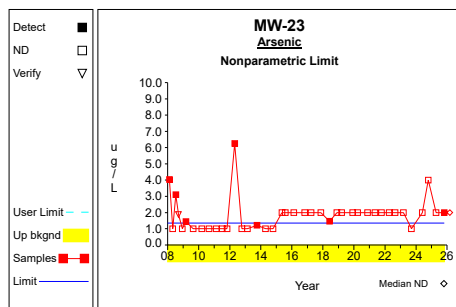
Up vs. Down Prediction Limits



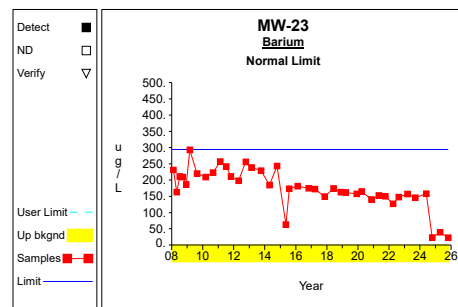
Up vs. Down Prediction Limits



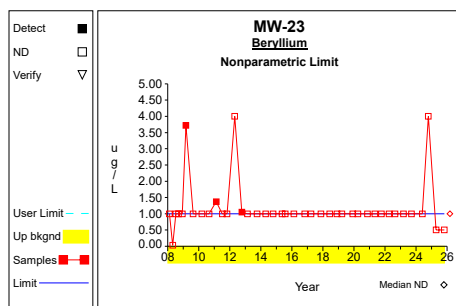
Graph 31



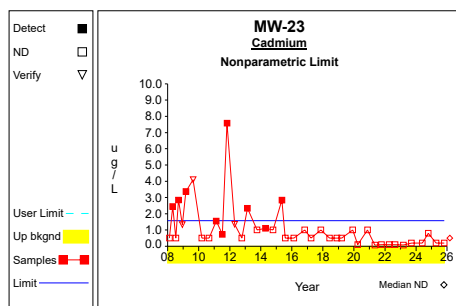
Graph 32



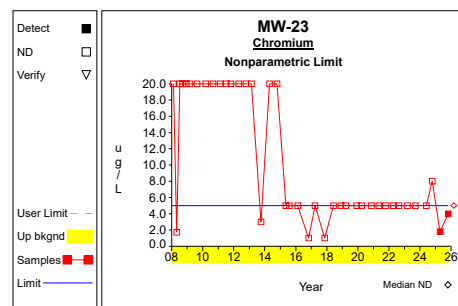
Graph 33



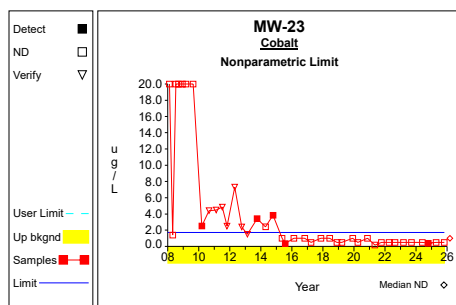
Graph 34



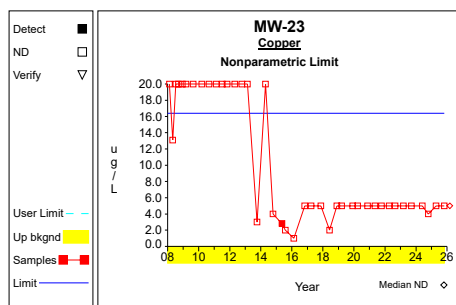
Graph 35



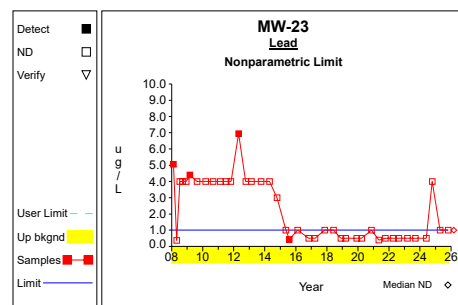
Graph 36



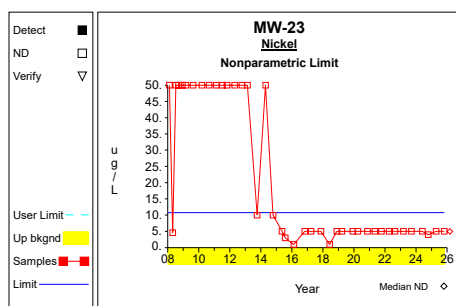
Graph 37



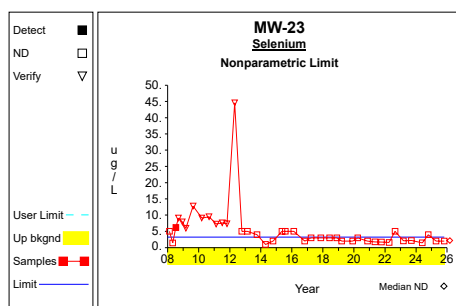
Graph 38



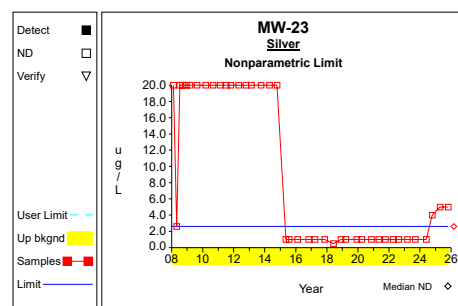
Graph 39



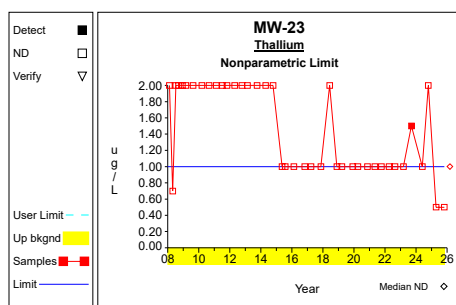
Graph 40



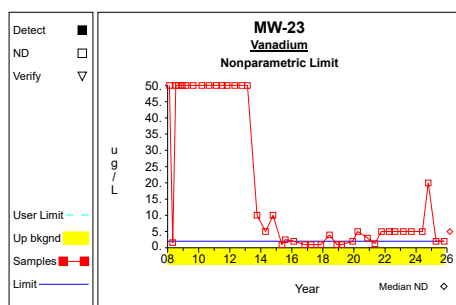
Graph 41



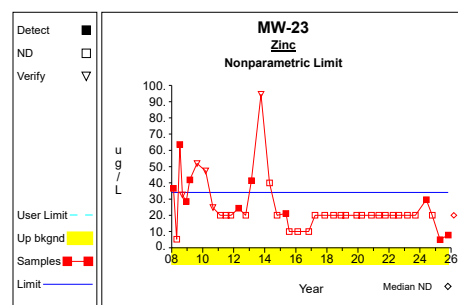
Graph 42



Graph 43

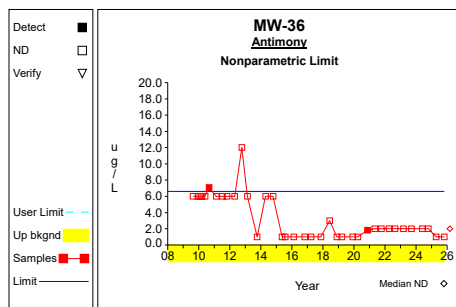


Graph 44

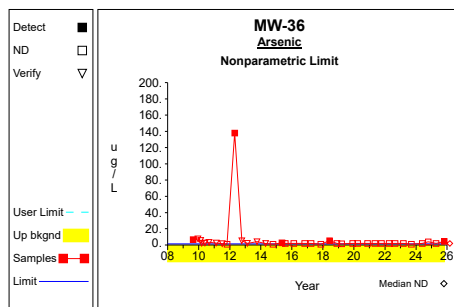


Graph 45

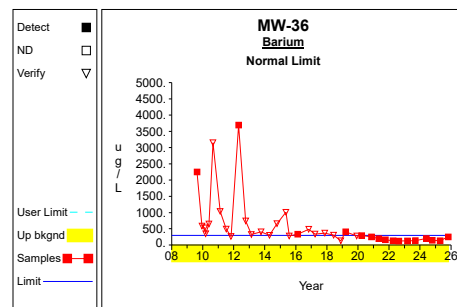
Up vs. Down Prediction Limits



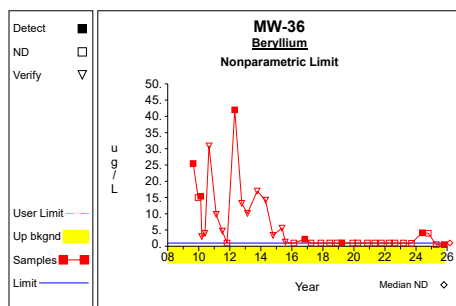
Graph 46



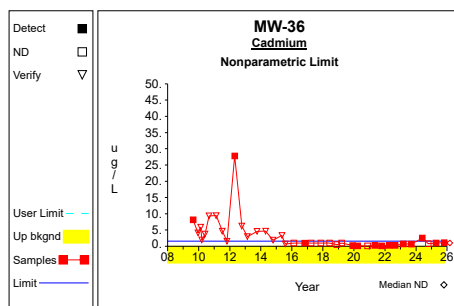
Graph 47



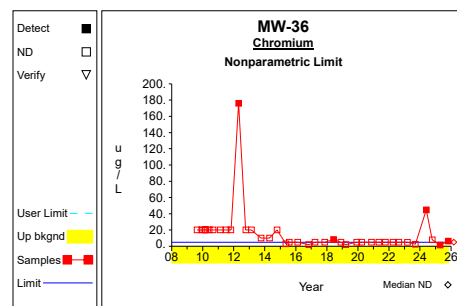
Graph 48



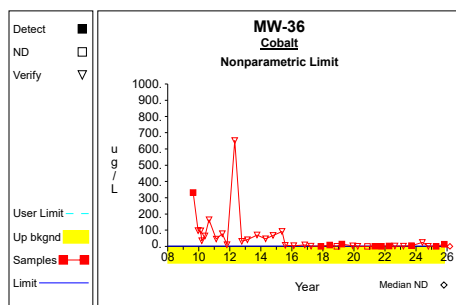
Graph 49



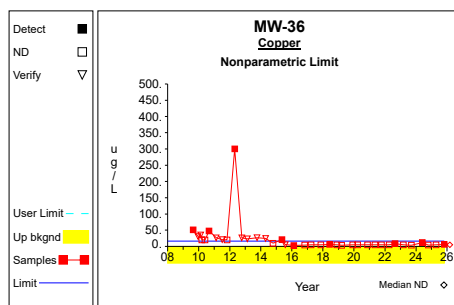
Graph 50



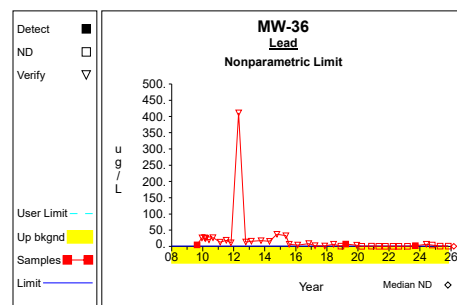
Graph 51



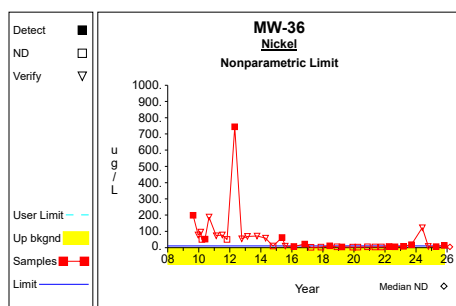
Graph 52



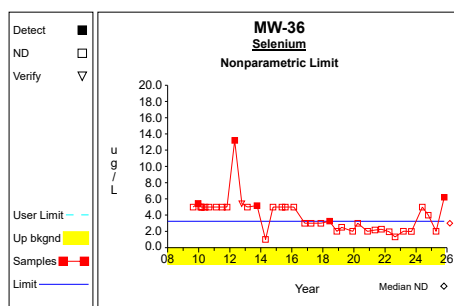
Graph 53



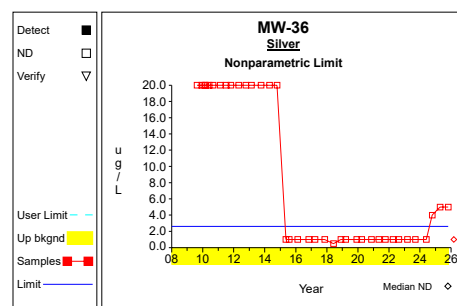
Graph 54



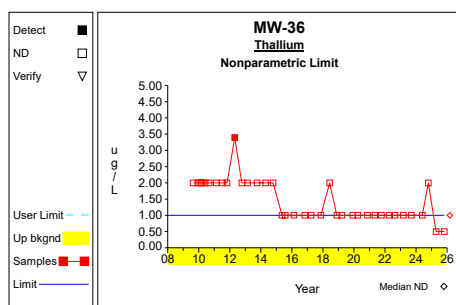
Graph 55



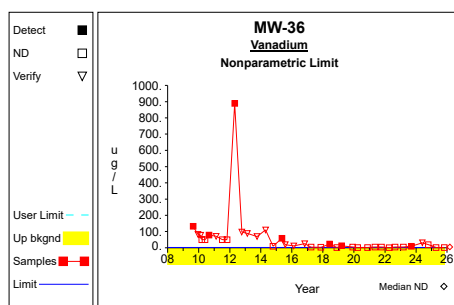
Graph 56



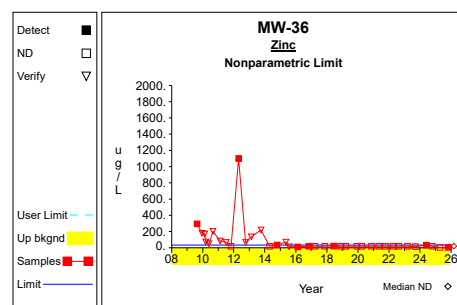
Graph 57



Graph 58



Graph 59



Graph 60

Appendix G

Assessment Testing Results Summary

Sulfide **Water Table System (mg/L)**

Date	MW-19	MW-21	MW-24	MW-37R	MW-38R	MW-39
7/7/11	6.4	0.29	NT	NT	NT	<0.12
10/27/11	<1	3.9	NT	NT	NT	NT
1/23/12	<1	<1	NT	NT	NT	NT
4/26/12	<1	<1	NT	NT	NT	NT
10/9/12	2.6	4.5	NT	NT	NT	<0.23
2/20/13	<1	<1	NT	NT	NT	NT
5/15/13	<1	NT	<1	NT	NT	NT
10/3/13	NT	<1	NT	NT	NT	NT
4/22/14	<1	<1	NT	NT	NT	NT
7/10/14	NT	NT	NT	NT	NT	NT
10/14/14	<1	NT	NT	NT	NT	NT
5/12/15	NT	NT	NT	NT	NT	NT
7/29/15	<1	<1	NT	NT	NT	NT
2/15/16	<1	<1	NT	NT	NT	NT
10/31/16	<1	<1	NT	NT	NT	NT
3/27/17	<1	<1	NT	NT	NT	<1
11/13/17	3.09	4.93	NT	NT	NT	NT
6/6/18	NT	<1	NT	NT	NT	NT
11/27/18	NT	<1	NT	NT	<1	NT
3/18/19	<1	2.02	NT	NT	NT	NT
12/2/19	<1	0.707	NT	NT	NT	NT
3/30/20	<1	1.08	NT	<1	<1	NT
11/17/20	NT	NT	NT	<1	<1	NT
5/6/21	NT	NT	NT	NT	NT	NT
10/7/21	NT	0.588	NT	NT	NT	NT
4/6/22	<1	<1	NT	NT	NT	<1
8/23/22	<1	<1	NT	NT	NT	NT
9/29/22	<1	NT	<1	NT	NT	NT
3/8/23	<1	<1	<1	NT	NT	NT
9/13/23	<1	<1	NT	NT	NT	NT
5/29/24	<1	<1	NT	NT	NT	NT
10/14/24	NT	NT	NT	NT	NT	NT
4/16/2025	NT	NT	NT	NT	NT	NT
10/27/2025	<0.1	0.1	NT	<0.1	NT	NT

Sulfide **Dakota System (mg/L)**

Date	MW-11	MW-23	MW-36
8/29/09	<1	NT	NT
8/31/10	<1	NT	NT
7/7/11	NT	<0.12	<0.12
10/27/11	<1	NT	NT
10/9/12	NT	<0.23	<0.23
5/15/13	<1	NT	<1
4/22/14	NT	NT	NT
7/10/14	NT	NT	NT
10/14/14	NT	NT	NT
5/12/15	NT	NT	NT
2/15/16	<1	NT	NT
10/31/16	NT	NT	NT
3/27/17	NT	<1	<1
5/6/21	<1	NT	NT
10/7/21	<1	NT	NT
4/7/22	NT	0.781	<1
5/29/24	NT	NT	NT
10/14/24	NT	NT	NT
4/16/2025	NT	NT	NT
10/27/2025	NT	NT	NT

* Outlier

Gamma-Chlordane **Water Table System (ug/L)**

Date	MW-19	MW-21	MW-24	MW-37R	MW-38R	MW-39
10/9/12	0.0633	<0.064	NT	NT	NT	<0.032
2/20/13	<0.032	NT	NT	NT	NT	NT
10/3/13	0.137	NT	NT	NT	NT	NT
12/18/13	0.124	NT	NT	NT	NT	NT
4/22/14	0.176	NT	NT	NT	NT	NT
10/31/16	<0.174	NT	NT	NT	NT	NT
3/27/17	<0.034	<0.034	NT	NT	NT	<0.034
11/13/17	0.029	NT	NT	NT	NT	NT
6/6/18	0.0207	NT	NT	NT	NT	NT
11/27/18	<0.034	NT	NT	NT	NT	NT
3/18/19	<0.034	NT	NT	NT	NT	NT
12/2/19	<0.0328	NT	NT	NT	NT	NT
3/30/20	0.0634	NT	NT	<0.034	<0.034	NT
11/17/20	NT	NT	NT	<0.034	<0.034	NT
5/6/21	0.119	NT	NT	NT	NT	NT
10/7/21	<0.034	NT	NT	NT	NT	NT
4/6/22	<0.034	<0.034	NT	NT	NT	<0.034
8/23/22	NT	NT	NT	NT	NT	NT
9/29/22	NT	NT	<0.034	NT	NT	NT
3/8/23	NT	NT	<0.034	NT	NT	NT
9/13/23	<2	NT	NT	NT	NT	NT
5/29/24	<0.064	NT	NT	NT	NT	NT
10/14/24	<0.05	NT	NT	NT	NT	NT
4/16/2025	<0.05	NT	NT	NT	NT	NT
10/27/2025	NT	NT	NT	<0.1	NT	NT

Gamma-Chlordane **Dakota System (ug/L)**

Date	MW-11	MW-23	MW-36
10/9/12	NT	<0.032	<0.032
5/15/13	NT	NT	NT
4/22/14	NT	NT	NT
7/10/14	NT	NT	NT
10/14/14	NT	NT	NT
5/12/15	NT	NT	NT
2/15/16	<0.032	NT	NT
10/31/16	NT	NT	NT
3/27/17	NT	<0.032	<0.032
5/6/21	NT	NT	NT
10/7/21	NT	NT	NT
4/7/22	NT	<0.032	<0.032
5/29/24	NT	NT	NT
10/14/24	NT	NT	NT
4/16/2025	NT	NT	NT
10/27/2025	NT	NT	NT

* Outlier

Endosulfan I **Water Table System (mg/L)**

Date	MW-19	MW-21	MW-24	MW-37R	MW-38R	MW-39
7/7/11	<0.032	<0.032	NT	NT	NT	<0.032
10/27/11	NT	NT	NT	NT	NT	NT
1/23/12	NT	NT	NT	NT	NT	NT
4/26/12	NT	NT	NT	NT	NT	NT
10/9/12	<0.032	<0.032	NT	NT	NT	<0.032
2/20/13	NT	NT	NT	NT	NT	NT
5/15/13	NT	NT	NT	NT	NT	NT
10/3/13	NT	NT	NT	NT	NT	NT
4/22/14	NT	NT	NT	NT	NT	NT
10/31/16	NT	NT	NT	NT	NT	NT
3/27/17	<0.032	<0.032	NT	NT	NT	<0.032
11/13/17	NT	NT	NT	NT	NT	NT
6/6/18	NT	NT	NT	NT	NT	NT
11/27/18	NT	NT	NT	NT	NT	NT
3/18/19	NT	NT	NT	NT	NT	NT
12/2/19	NT	NT	NT	NT	NT	NT
3/30/20	NT	NT	NT	<0.036	<0.0356	NT
11/17/20	NT	NT	NT	<0.0348	<0.0337	NT
5/6/21	NT	NT	NT	NT	NT	NT
10/7/21	NT	NT	NT	NT	NT	NT
4/6/22	<0.0696	<0.064	NT	NT	NT	<0.0696
8/23/22	NT	NT	NT	NT	NT	NT
9/29/22	NT	NT	<0.0653	NT	NT	NT
3/8/23	NT	NT	<0.064	NT	NT	NT
9/13/23	NT	NT	NT	NT	NT	NT
5/29/24	NT	NT	NT	NT	NT	NT
10/14/24	<0.05	NT	NT	NT	NT	NT
4/16/2025	<0.05	NT	NT	NT	NT	NT
10/27/2025	NT	NT	NT	<0.05	NT	NT

Endosulfan I **Dakota System (mg/L)**

Date	MW-11	MW-23	MW-36
8/29/09	<0.032	NT	NT
8/31/10	<0.032	NT	NT
7/7/11	NT	<0.032	<0.032
10/27/11	<0.032	NT	NT
10/9/12	NT	<0.032	<0.032
2/15/16	0.00337	NT	NT
3/27/17	NT	<0.032	<0.032
5/6/21	<0.032	NT	NT
4/6/22	NT	<0.0667	<0.0667
5/29/24	NT	NT	NT
10/14/24	NT	NT	NT
4/16/2025	NT	NT	NT
10/27/2025	NT	NT	NT

* Outlier

Appendix H

Leachate Collection System Performance Evaluation Report

Atlantic NPDES Permit with Cass County Landfill as Industrial User

IOWA DEPARTMENT OF NATURAL RESOURCES
National Pollutant Discharge Elimination System (NPDES) Permit

OWNER NAME & ADDRESS

CITY OF ATLANTIC
CITY HALL, 23 E. 4TH ST.
ATLANTIC, IA 50022

FACILITY NAME & ADDRESS

ATLANTIC CITY OF STP
309 SUNNYSIDE LN.
ATLANTIC, IA 50022

Section 6, T76N, R36W
Cass County

IOWA NPDES PERMIT NUMBER: 1509001
DATE OF ISSUANCE: 03/01/2025
DATE OF EXPIRATION: 02/28/2030

**YOU ARE REQUIRED TO FILE FOR RENEWAL
OF THIS PERMIT BY:** 09/01/2029
EPA NUMBER: IA0029025

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 Reed Hoeness  Digitally signed by Reed Hoeness
Date: 2025.02.12 16:35:59 -06'00'

Reed Hoeness
NPDES Section, Environmental Services Division

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

Outfall No.: 003 DISCHARGE FROM AN ACTIVATED SLUDGE WASTEWATER TREATMENT FACILITY

Receiving Stream: EAST NISHNABOTNA RIVER

Route of Flow: EAST NISHNABOTNA 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 invertebrate species. These waters generally include border rivers, large interior rivers, and the lower segments of medium-size tributary streams.

Waters designated Class HH are those in which fish are routinely harvested for human consumption or waters both designated as a drinking water supply and in which fish are routinely harvested for human consumption.

Outfall No.: 004 BYPASS FROM THE EQUALIZATION BASIN OVERFLOW STRUCTURE

Receiving Stream: UNNAMED CREEK

Route of Flow: UNNAMED CREEK TO THE EAST NISHNABOTNA 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 invertebrate 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.

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

Effluent Limitations:

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

003 DISCHARGE FROM AN ACTIVATED SLUDGE WASTEWATER TREATMENT FACILITY

Outfall: 003 Effective Dates: 03/01/2025 to 02/28/2030				
Parameter	Season	Limit Type	Limits	
CBOD5			85% Removal Required	
	Yearly	7 Day Average	40 MG/L	884 LBS/DAY
	Yearly	30 Day Average	25 MG/L	553 LBS/DAY
TOTAL SUSPENDED SOLIDS			85% Removal Required	
	Yearly	7 Day Average	45 MG/L	995 LBS/DAY
	Yearly	30 Day Average	30 MG/L	663 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	3.0 MG/L	

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

Outfall: 003 Effective Dates: 03/01/2025 to 02/28/2030				
Parameter	Season	Limit Type	Limits	
AMMONIA NITROGEN (N)				
	JAN	30 Day Average	9.2 MG/L	169.3 LBS/DAY
	JAN	Daily Maximum	16.0 MG/L	349.3 LBS/DAY
	FEB	30 Day Average	10.5 MG/L	194.8 LBS/DAY
	FEB	Daily Maximum	15.1 MG/L	328.7 LBS/DAY
	MAR	30 Day Average	9.0 MG/L	166.5 LBS/DAY
	MAR	Daily Maximum	15.5 MG/L	337.8 LBS/DAY
	APR	30 Day Average	4.1 MG/L	75.2 LBS/DAY
	APR	Daily Maximum	16.4 MG/L	358.3 LBS/DAY
	MAY	30 Day Average	4.1 MG/L	78 LBS/DAY
	MAY	Daily Maximum	15.9 MG/L	347.8 LBS/DAY
	JUN	30 Day Average	2.8 MG/L	54 LBS/DAY
	JUN	Daily Maximum	15.2 MG/L	283 LBS/DAY
	JUL	30 Day Average	2.7 MG/L	49.6 LBS/DAY
	JUL	Daily Maximum	18.4 MG/L	272 LBS/DAY
	AUG	30 Day Average	2.5 MG/L	47.0 LBS/DAY
	AUG	Daily Maximum	17.0 MG/L	287 LBS/DAY
	SEP	30 Day Average	2.8 MG/L	52.1 LBS/DAY
	SEP	Daily Maximum	17.2 MG/L	316 LBS/DAY
	OCT	30 Day Average	4.2 MG/L	77.0 LBS/DAY
	OCT	Daily Maximum	16.4 MG/L	358.3 LBS/DAY
	NOV	30 Day Average	6.2 MG/L	115.1 LBS/DAY
	NOV	Daily Maximum	15.3 MG/L	335.3 LBS/DAY
	DEC	30 Day Average	6.6 MG/L	122.6 LBS/DAY
	DEC	Daily Maximum	16.7 MG/L	364.3 LBS/DAY

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

Outfall: 003 Effective Dates: 03/01/2025 to 02/28/2030			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limits</u>
PH			
	Yearly	Daily Maximum	9.0 STD UNITS
	Yearly	Daily Minimum	6.4 STD UNITS
E. COLI			
	MAR	Geometric Mean	126 #/100 ML
	APR	Geometric Mean	126 #/100 ML
	MAY	Geometric Mean	126 #/100 ML
	JUN	Geometric Mean	126 #/100 ML
	JUL	Geometric Mean	126 #/100 ML
	AUG	Geometric Mean	126 #/100 ML
	SEP	Geometric Mean	126 #/100 ML
	OCT	Geometric Mean	126 #/100 ML
	NOV	Geometric Mean	126 #/100 ML
ANNUAL TOTAL PHOSPHORUS DISCHARGED (AS P)			
	Yearly	Annual Average	23 LBS/DAY
ANNUAL AVERAGE NITROGEN DISCHARGED (AS N)			
	Yearly	Annual Average	105 LBS/DAY

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

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: ATLANTIC CITY OF STP

Permit Number: 1509001

Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
The following monitoring requirements shall be in effect from 03/01/2025 to 02/28/2030				
003	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	RAW WASTE - TOTAL
003	BIOCHEMICAL OXYGEN DEMAND (BOD5)	2 TIMES PER WEEK	24 HOUR COMPOSITE	RAW INFLUENT AT GRIT CHAMBER
003	NITROGEN, TOTAL (AS N)	1 TIME PER WEEK	24 HOUR COMPOSITE	RAW INFLUENT AT GRIT CHAMBER
003	NITROGEN, TOTAL KJELDAHL (AS N)	1 EVERY MONTH	24 HOUR COMPOSITE	RAW INFLUENT AT GRIT CHAMBER
003	PH	2 TIMES PER WEEK	GRAB	RAW INFLUENT AT GRIT CHAMBER
003	PHOSPHORUS, TOTAL (AS P)	1 TIME PER WEEK	24 HOUR COMPOSITE	RAW INFLUENT AT GRIT CHAMBER
003	TEMPERATURE	2 TIMES PER WEEK	GRAB	RAW INFLUENT AT GRIT CHAMBER
003	TOTAL SUSPENDED SOLIDS	1 TIME PER WEEK	24 HOUR COMPOSITE	RAW INFLUENT AT GRIT CHAMBER
003	ACUTE TOXICITY, CERIODAPHNIA	1 EVERY 12 MONTHS	24 HOUR COMPOSITE	FINAL EFFLUENT
003	ACUTE TOXICITY, PIMEPHALES	1 EVERY 12 MONTHS	24 HOUR COMPOSITE	FINAL EFFLUENT
003	AMMONIA NITROGEN (N)	2 TIMES PER WEEK	24 HOUR COMPOSITE	FINAL EFFLUENT
003	ANNUAL AVERAGE NITROGEN DISCHARGED (AS N)	1 EVERY 12 MONTHS	CALCULATED	CALCULATION REPORTED ANNUALLY ON DMR
003	ANNUAL TOTAL PHOSPHORUS DISCHARGED (AS P)	1 EVERY 12 MONTHS	CALCULATED	CALCULATION REPORTED ANNUALLY ON DMR
003	CBOD5	2 TIMES PER WEEK	24 HOUR COMPOSITE	FINAL EFFLUENT
003	DISSOLVED OXYGEN	2 TIMES PER WEEK	GRAB	WHEN DISINFECTION IS IN USE, TEST AT THE UV CHANNEL. WHEN DISINFECTION IS NOT IN USE, TEST AFTER THE FLOW EQ TANK.
003	E. COLI	1 EVERY 3 MONTHS	GRAB	FINAL EFFLUENT
003	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	MAGMETER POST DISINFECTION
003	NITROGEN, TOTAL (AS N)	1 TIME PER WEEK	24 HOUR COMPOSITE	FINAL EFFLUENT
003	PH	2 TIMES PER WEEK	GRAB	FINAL EFFLUENT
003	PHOSPHORUS, TOTAL (AS P)	1 TIME PER WEEK	24 HOUR COMPOSITE	FINAL EFFLUENT
003	TEMPERATURE	2 TIMES PER WEEK	GRAB	FINAL EFFLUENT
003	TOTAL SUSPENDED SOLIDS	1 TIME PER WEEK	24 HOUR COMPOSITE	FINAL EFFLUENT

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

Special Monitoring Requirements

Outfall # Description

003 **FLOW**

TOTAL RAW WASTE (FLOW)

Definitions:

Process Flow (PF) - The flow rate from the raw waste pumps and totalization from the Process magnetic flow meter

Flow Equalization Flow (FEF) - Storm pump flows flowing in a positive direction to the flow equalization lagoon and measured in the flow equalization magnetic flow meter

Equalization Lagoon Return Flow (ELRF) - When flow is being returned from the flow equalization basin to the process, the flows measured in the flow equalization magnetic meter in the negative direction

Directions:

*Total raw waste flow shall be calculating by choosing the applicable scenario specified below:

When the storm pump flow is flowing in a positive direction:

Total Raw Waste = PF + FEF

When the flow is being returned from the flow equalization basin to the process:

Total Raw Waste = PF – ELRF

When no storm pump flow is being sent to the equalization basin and no flow is being returned from the flow equalization basin to the process:

Total Raw Waste = PF

When during a 24 hour period, Flow Equalization Flow and Equalization Lagoon Return Flow are occurring:

Total Raw Waste = PF + (FEF – ELRF)

* Non-potable water flow shall be subtracted from each of the above described Total Raw Waste flow scenarios

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

CBOD5

If the CBOD5 sample is taken post disinfection, the sample must be seeded at the laboratory prior to analysis.

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.

E. COLI

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.

ANNUAL AVERAGE NITROGEN DISCHARGED (AS N)

ANNUALLY, CALCULATE THE AVERAGE OF ALL TOTAL NITROGEN MASS (LBS/DAY) SAMPLE RESULTS FROM THE PREVIOUS 12 MONTHS. REPORT THE ANNUAL AVERAGE IN THE DISCHARGE MONITORING REPORT (DMR) DUE FEBRUARY 15th EACH YEAR.

CALCULATION: SUM OF ALL MASS MEASUREMENTS (LBS/DAY) IN THE LAST 12 MONTHS DIVIDED BY THE TOTAL NUMBER OF MEASUREMENTS IN THE LAST 12 MONTHS.

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

ANNUAL TOTAL PHOSPHORUS DISCHARGED (AS P)

ANNUALLY, CALCULATE THE AVERAGE OF ALL TOTAL PHOSPHORUS MASS (LBS/DAY) SAMPLE RESULTS FROM THE PREVIOUS 12 MONTHS. REPORT THE ANNUAL AVERAGE IN THE DISCHARGE MONITORING REPORT (DMR) DUE FEBRUARY 15th EACH YEAR.

CALCULATION: SUM OF ALL MASS MEASUREMENTS (LBS/DAY) IN THE LAST 12 MONTHS DIVIDED BY THE TOTAL NUMBER OF MEASUREMENTS IN THE LAST 12 MONTHS.

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

Significant Industrial User Discharges:

Significant Industrial User: CASS COUNTY SANITARY LANDFILL

Outfall # Outfall Description

001 DISCHARGE TO THE ATLANTIC MUNICIPAL COLLECTION SYSTEM

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

CASS COUNTY SANITARY LANDFILL			
Outfall: 001 Effective Dates: 03/01/2025 to 02/28/2030			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
FLOW			
	Yearly	DAILY MAXIMUM	0.04 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	100 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	100 LBS/DAY
ZINC, TOTAL (AS ZN)			
	Yearly	30 Day Average	0.133 MG/L
	Yearly	DAILY MAXIMUM	0.133 MG/L
CADMIUM, TOTAL (AS CD)			
	Yearly	30 Day Average	0.001 MG/L
	Yearly	DAILY MAXIMUM	0.0024 MG/L
CHROMIUM, TOTAL (AS CR)			
	Yearly	30 Day Average	0.217 MG/L
	Yearly	DAILY MAXIMUM	0.217 MG/L
CYANIDE, TOTAL (AS CN)			
	Yearly	30 Day Average	0.012 MG/L
	Yearly	DAILY MAXIMUM	0.024 MG/L
MERCURY, TOTAL (AS HG)			
	Yearly	30 Day Average	0.001 MG/L
	Yearly	DAILY MAXIMUM	0.002 MG/L

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

CASS COUNTY SANITARY LANDFILL			
Outfall: 001 Effective Dates: 03/01/2025 to 02/28/2030			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
NICKEL, TOTAL (AS NI)			
	Yearly	30 Day Average	0.193 MG/L
	Yearly	DAILY MAXIMUM	0.242 MG/L
NITROGEN, TOTAL KJELDAHL (AS N)			
	Yearly	30 Day Average	90 LBS/DAY
ARSENIC, TOTAL (AS AS)			
	Yearly	30 Day Average	0.369 MG/L
	Yearly	DAILY MAXIMUM	0.377 MG/L
SELENIUM, TOTAL (AS SE)			
	Yearly	30 Day Average	0.012 MG/L
	Yearly	DAILY MAXIMUM	0.021 MG/L
SILVER, TOTAL (AS AG)			
	Yearly	30 Day Average	0.004 MG/L
	Yearly	DAILY MAXIMUM	0.004 MG/L
COPPER, TOTAL (AS CU)			
	Yearly	30 Day Average	0.029 MG/L
	Yearly	DAILY MAXIMUM	0.029 MG/L
LEAD, TOTAL (AS PB)			
	Yearly	30 Day Average	0.007 MG/L
	Yearly	DAILY MAXIMUM	0.076 MG/L
PH			
	Yearly	DAILY MAXIMUM	10.0 STD UNITS
	Yearly	DAILY MINIMUM	5.0 STD UNITS

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

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: ATLANTIC CITY OF STP

Permit Number: 1509001

CASS COUNTY SANITARY LANDFILL

Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
001	ARSENIC, TOTAL (AS AS)	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	CADMIUM, TOTAL (AS CD)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	CHROMIUM, TOTAL (AS CR)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	COPPER, TOTAL (AS CU)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	CYANIDE, TOTAL (AS CN)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	1 EVERY BATCH	CALCULATED	PRIOR TO DISCHARGE TO CITY SEWER
001	LEAD, TOTAL (AS PB)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	MERCURY, TOTAL (AS HG)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	NICKEL, TOTAL (AS NI)	1 EVERY BATCH	GRAB	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 BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SELENIUM, TOTAL (AS SE)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SILVER, TOTAL (AS AG)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	ZINC, TOTAL (AS ZN)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

CASS COUNTY SANITARY LANDFILL Special Monitoring Requirements

Outfall #	Description

001	FLOW

	Total volume of leachate discharged to City sewer.

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

ADDITIONAL MONITORING REQUIREMENTS

CASS COUNTY SANITARY LANDFILL

In addition to the monitoring requirements listed on pages 14 - 15, the landfill shall analyze a representative sample of the leachate discharge from Cass County Sanitary Landfill at least once per batch discharge for each of the pollutants listed below.

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 monitoring shall be submitted to the addresses below:

NPDES.mail@dnr.iowa.gov

Subject: Landfill Leachate Scan (1509001)

fo4ww@dnr.iowa.gov

Subject: Landfill Leachate Scan (1509001)

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

Significant Industrial User Discharges:

Significant Industrial User: MAHLE ENGINE COMPONENTS USA, INC.

Outfall # Outfall Description

001 PROCESS WASTEWATER DISCHARGE FROM THE PRETREATMENT FACILITIES PRIOR TO MIXING WITH
ANY OTHER WASTESTREAMS

002 TREATED WASTEWATER FROM A GROUND WATER REMEDIATION SYSTEM

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

MAHLE ENGINE COMPONENTS USA, INC.				
Outfall: 001 Effective Dates: 03/01/2025 to 02/28/2030				
Parameter	Season	Limit Type	Limit Values	
FLOW				
	Yearly	30 Day Average	0.041 MGD	
	Yearly	DAILY MAXIMUM	0.073 MGD	
TOTAL SUSPENDED SOLIDS				
	Yearly	30 Day Average	25 LBS/DAY	
	Yearly	DAILY MAXIMUM	50 LBS/DAY	
ZINC, TOTAL (AS ZN)				
	Yearly	30 Day Average	1.0628 MG/L	0.363 LBS/DAY
	Yearly	DAILY MAXIMUM	1.0628 MG/L	0.363 LBS/DAY
CADMIUM, TOTAL (AS CD)				
	Yearly	30 Day Average	0.0167 MG/L	0.0057 LBS/DAY
	Yearly	DAILY MAXIMUM	0.0213 MG/L	0.007283 LBS/DAY
CHLORIDE (AS CL)				
	Yearly	30 Day Average	3200 MG/L	1094.2 LBS/DAY
	Yearly	DAILY MAXIMUM	4000 MG/L	1367.8 LBS/DAY
CHROMIUM, HEXAVALENT, AS CR (CHROMIUM VI)				
	Yearly	30 Day Average	0.0789 MG/L	0.027 LBS/DAY
	Yearly	DAILY MAXIMUM	0.0789 MG/L	0.027 LBS/DAY
CHROMIUM, TOTAL (AS CR)				
	Yearly	30 Day Average	1.51 MG/L	0.516 LBS/DAY
	Yearly	DAILY MAXIMUM	2.57 MG/L	0.879 LBS/DAY

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

MAHLE ENGINE COMPONENTS USA, INC.

Outfall: 001 Effective Dates: 03/01/2025 to 02/28/2030

<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>	
CYANIDE, TOTAL (AS CN)				
	Yearly	30 Day Average	0.1085 MG/L	0.037 LBS/DAY
	Yearly	DAILY MAXIMUM	0.1085 MG/L	0.037 LBS/DAY
NICKEL, TOTAL (AS NI)				
	Yearly	30 Day Average	2.20 MG/L	0.752 LBS/DAY
	Yearly	DAILY MAXIMUM	3.8 MG/L	1.299 LBS/DAY
OIL AND GREASE				
	Yearly	30 Day Average	26 MG/L	9 LBS/DAY
	Yearly	DAILY MAXIMUM	52 MG/L	18 LBS/DAY
SILVER, TOTAL (AS AG)				
	Yearly	30 Day Average	0.01874 MG/L	0.006 LBS/DAY
	Yearly	DAILY MAXIMUM	0.01874 MG/L	0.006 LBS/DAY
TOTAL TOXIC ORGANICS				
	Yearly	30 Day Average	2.13 MG/L	0.728 LBS/DAY
	Yearly	DAILY MAXIMUM	2.13 MG/L	0.728 LBS/DAY
COPPER, TOTAL (AS CU)				
	Yearly	30 Day Average	0.122 MG/L	0.042 LBS/DAY
	Yearly	DAILY MAXIMUM	0.122 MG/L	0.042 LBS/DAY
LEAD, TOTAL (AS PB)				
	Yearly	30 Day Average	0.2835 MG/L	0.097 LBS/DAY
	Yearly	DAILY MAXIMUM	0.9735 MG/L	0.333 LBS/DAY

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

MAHLE ENGINE COMPONENTS USA, INC.			
Outfall: 001 Effective Dates: 03/01/2025 to 02/28/2030			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
PH			
	Yearly	DAILY MAXIMUM	9.0 STD UNITS
	Yearly	DAILY MINIMUM	6.0 STD UNITS
CALCIUM DIMETHYLDITHIOCARBAMATE			
	Yearly	30 Day Average	13.38 MG/L 4.58 LBS/DAY
	Yearly	DAILY MAXIMUM	13.38 MG/L 4.575 LBS/DAY

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

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: ATLANTIC CITY OF STP

Permit Number: 1509001

MAHLE ENGINE COMPONENTS USA, INC.

Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
001	CADMIUM, TOTAL (AS CD)	1 EVERY 3 MONTHS	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	CALCIUM DIMETHYLDITHIOCARBAMATE	1 EVERY 3 MONTHS	GRAB	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	CHLORIDE (AS CL)	1 EVERY 2 WEEKS	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	CHROMIUM, HEXAVALENT, AS CR (CHROMIUM VI)	1 EVERY 3 MONTHS	GRAB	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	CHROMIUM, TOTAL (AS CR)	1 EVERY 3 MONTHS	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	COPPER, TOTAL (AS CU)	1 EVERY 3 MONTHS	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	CYANIDE, TOTAL (AS CN)	1 EVERY 3 MONTHS	GRAB	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	LEAD, TOTAL (AS PB)	1 EVERY MONTH	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	NICKEL, TOTAL (AS NI)	1 EVERY MONTH	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1 EVERY 3 MONTHS	GRAB	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	PH	2 TIMES PER WEEK	GRAB	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	SILVER, TOTAL (AS AG)	1 EVERY 3 MONTHS	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1 EVERY MONTH	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL TOXIC ORGANICS	1 EVERY MONTH	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	ZINC, TOTAL (AS ZN)	1 EVERY 3 MONTHS	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

MAHLE ENGINE COMPONENTS USA, INC. Special Monitoring Requirements

Outfall # Description

001 TOTAL TOXIC ORGANICS

In lieu of monitoring for Total Toxic Organics (TTO) the facility shall include the following certification statement with each monitoring report submitted to the City of Atlantic and this Department: “Based on my inquiry of the person or persons directly responsible for managing compliance with permit limits for TTO, I certify that to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewater has occurred since the filing of the last report. I further certify that this facility is implementing the Toxic Organics Management Plan (TOMP) submitted to the Department.”

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

Outfall Number: 003

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 shall be used for acute toxicity testing are Ceriodaphnia dubia and Pimephales promelas. The acute toxicity testing procedures used to demonstrate compliance with permit limits shall be those listed in 567 IAC 63.4 and 40 CFR Part 136 and adopted by reference in rule 567 IAC 63.1(1). The method for measuring acute toxicity is specified in the EPA document EPA-821-R-02-012, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th edition, October 2002.
3. The diluted effluent sample must contain a minimum of 90.80 % effluent and no more than 9.20 % 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 discharge monitoring report (DMR). A toxic test result shall be indicated as a "2" on the DMR. DNR Form 542-1381 shall also be submitted to the DNR field office along with the DMR.

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 the EPA document EPA-821-R-02-012, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th edition, October 2002.

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

Design Capacity

Design: 2

The design capacity for the treatment works is specified in Construction Permit Number 2011-0105-S, issued October 21, 2010. The treatment plant is designed to treat:

- * An average dry weather (ADW) flow of 0.98 Million Gallons Per Day (MGD).
- * An average wet weather (AWW) flow of 2.65 Million Gallons Per Day (MGD).
- * A maximum wet weather (MWW) flow of 8.10 Million Gallons Per Day (MGD).
- * A design 5-day biochemical oxygen demand (BOD5) load of 2000 lbs/day.
- * A design Total Kjeldahl Nitrogen (TKN) load of 352 lbs/day.
- * A design Total Suspended Solids (TSS) load of 2600 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: ATLANTIC CITY OF STP

Permit Number: 1509001

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: ATLANTIC CITY OF STP

Permit Number: 1509001

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 is the arithmetic mean (average) of pollutant parameter values for samples collected in a period of seven consecutive days. A calendar month consists of four 7-day periods with the first 7-day period beginning the first day of the month. *{567 IAC 60.2}*
 - (b) 30 day average is the arithmetic mean of pollutant parameter values for samples collected in a period of 30 consecutive days. A 30-day period begins the first day of the month. *{567 IAC 60.2}*
 - (c) Daily maximum is 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 Iowa Code and 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. *{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) "d", 64.7(7) "b" and "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 in Section 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, 40 CFR 122.41(l)(6)}*
- 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), 63.14 and 63.15, 40 CFR 122.41(l)(7)}*
- 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) Provide 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.
- {567 IAC 64.7(7) "c", 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) and 64.7(7) "d" 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. *{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. *{567 IAC 60.2}*
- (a) Prohibition. Bypasses from any portion of a treatment facility or from a sanitary sewer collection system designed to carry only sewage are prohibited, in accordance with 567 IAC 63.6(1). The department may not assess a civil penalty against a permittee for a bypass if the permittee has complied with all of the following:
- The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - 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
 - The permittee submitted notices as required by 567 IAC 63.6.
- (b) Anticipated bypass. Except for bypasses that occur as a result of mechanical failure or acts beyond the control of the owner or operator of a waste disposal system (unanticipated bypasses), the owner or operator shall obtain written permission from the department prior to any discharge of sewage or wastes from a waste disposal system not authorized by this permit. 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 expected event, in accordance with the requirements listed in 567 IAC 63.6(2).
- (c) Unanticipated bypass. In the event that a bypass or upset occurs without prior notice having been provided pursuant to 567 IAC 63.6(2) or as a result of mechanical failure or acts beyond the control of the owner or operator, the owner or operator of the treatment facility or collection system shall notify the department by telephone as soon as possible but not later than 24 hours after the onset or discovery in accordance with the requirements in 567 IAC 63.6(3). A written submission describing the bypass shall also be provided within five days of the time the permittee becomes aware of the bypass, in accordance with the requirements in 567 IAC 63.6(3)“d”.
- (d) Reporting. 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 (b) 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:
- An upset occurred and that the permittee can identify the cause(s) of the upset;
 - The permitted facility was at the time being properly operated;
 - The permittee submitted notice of the upset to the department in accordance with 567 IAC 63.6(3); and
 - The permittee complied with any remedial measures required by the department in accordance with 567 IAC 63.6(6)“b”(4).
- (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 NOT A DEFENSE** - 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. 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.

Appendix H.2
Corning NPDES Permit with Cass County Landfill as Industrial User



AMENDMENT TO NPDES PERMIT

Iowa NPDES Permit Number: 0220001
EPA Number: IA0027375

Date of Permit Issuance: August 1, 2022
Date of Permit Expiration: July 31, 2027
Date of this Amendment: December 1, 2022

Name and Mailing Address of Applicant:

City of Corning
601 6th St
Corning, IA 50841

Identity and Location of Facility:

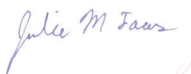
Corning City of STP
101 Loomis Avenue
Corning, IA 50841

Section 3, T71N, R34W
Adams County

Pursuant to the authority of Iowa Code Section 455B.174, and of Rule 567-64.3, Iowa Administrative Code, the Director of the Iowa Department of Natural Resources has issued the above referenced permit. Pursuant to the same authority, the Director hereby amends said permit as set forth below:

The permit is being amended to change the the flow limits for POET Biorefining – Corning, a significant industrial user (SIU), in accordance with a treatment agreement (TA) accepted by the department on December 1, 2022.

For the Department of Natural Resources:

By  Digitally signed by Julie Faas
Date: 2022.12.01 12:17:21
-06'00'
Julie Faas
NPDES Section
ENVIRONMENTAL SERVICES DIVISION

IOWA DEPARTMENT OF NATURAL RESOURCES
National Pollutant Discharge Elimination System (NPDES) Permit

OWNER NAME & ADDRESS

CITY OF CORNING
601 6TH ST
CORNING, IA 50841

FACILITY NAME & ADDRESS

CORNING CITY OF STP
101 LOOMIS AVENUE
CORNING, IA 50841

Section 3, T71N, R34W
Adams County

IOWA NPDES PERMIT NUMBER: 0220001
DATE OF ISSUANCE: 08/01/2022
DATE OF EXPIRATION: 07/31/2027

**YOU ARE REQUIRED TO FILE FOR RENEWAL
OF THIS PERMIT BY:** 02/01/2027
EPA NUMBER: IA0027375

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 Karen Lodden

Digitally signed by Karen Lodden
Date: 2022.07.22 06:07:14 -05'00'

Karen Lodden
NPDES Section, Environmental Services Division

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

Outfall No.: 001 DISCHARGE FROM AN ACTIVATED SLUDGE (AEROMOD) WASTEWATER TREATMENT FACILITY

Receiving Stream: EAST NODAWAY RIVER

Route of Flow: EAST NODAWAY 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: CORNING CITY OF STP

Permit Number: 0220001

Effluent Limitations:

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

001 DISCHARGE FROM AN ACTIVATED SLUDGE (AEROMOD) WASTEWATER TREATMENT FACILITY

<i>Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027</i>			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limits</u>
CBOD5		85% Removal Required	
	Yearly	7 Day Average	40 MG/L 181 LBS/DAY
	Yearly	30 Day Average	25 MG/L 113 LBS/DAY
TOTAL SUSPENDED SOLIDS		85% Removal Required	
	Yearly	7 Day Average	45 MG/L 204 LBS/DAY
	Yearly	30 Day Average	30 MG/L 136 LBS/DAY
AMMONIA NITROGEN (N)			
	JAN	30 Day Average	8.4 MG/L 32.2 LBS/DAY
	JAN	Daily Maximum	15.6 MG/L 70.0 LBS/DAY
	FEB	30 Day Average	9.7 MG/L 37.1 LBS/DAY
	FEB	Daily Maximum	14.6 MG/L 65.7 LBS/DAY
	MAR	30 Day Average	8.3 MG/L 31.7 LBS/DAY
	MAR	Daily Maximum	15.1 MG/L 67.7 LBS/DAY
	APR	30 Day Average	3.7 MG/L 14.3 LBS/DAY
	APR	Daily Maximum	16.0 MG/L 72.2 LBS/DAY
	MAY	30 Day Average	3.8 MG/L 15.0 LBS/DAY
	MAY	Daily Maximum	15.5 MG/L 69.9 LBS/DAY
	JUN	30 Day Average	2.6 MG/L 10.3 LBS/DAY
	JUN	Daily Maximum	14.8 MG/L 56.6 LBS/DAY
	JUL	30 Day Average	2.5 MG/L 9.4 LBS/DAY
	JUL	Daily Maximum	12.4 MG/L 43.5 LBS/DAY
	AUG	30 Day Average	2.3 MG/L 9.0 LBS/DAY
	AUG	Daily Maximum	12.9 MG/L 45.3 LBS/DAY
	SEP	30 Day Average	2.6 MG/L 9.9 LBS/DAY
	SEP	Daily Maximum	14.8 MG/L 52.1 LBS/DAY

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limits</u>
AMMONIA NITROGEN (N)			
	OCT	30 Day Average	3.8 MG/L 14.7 LBS/DAY
	OCT	Daily Maximum	16.0 MG/L 72.2 LBS/DAY
	NOV	30 Day Average	5.7 MG/L 21.9 LBS/DAY
	NOV	Daily Maximum	15.0 MG/L 67.5 LBS/DAY
	DEC	30 Day Average	6.1 MG/L 23.3 LBS/DAY
	DEC	Daily Maximum	16.3 MG/L 73.4 LBS/DAY
DISSOLVED OXYGEN			
	Yearly	Daily Minimum	4.2 MG/L
PH			
	Yearly	Daily Maximum	9.0 STD UNITS
	Yearly	Daily Minimum	6.5 STD UNITS
E. COLI			
	MAR	Geometric Mean	630 #/100 ML
	APR	Geometric Mean	630 #/100 ML
	MAY	Geometric Mean	630 #/100 ML
	JUN	Geometric Mean	630 #/100 ML
	JUL	Geometric Mean	630 #/100 ML
	AUG	Geometric Mean	630 #/100 ML
	SEP	Geometric Mean	630 #/100 ML
	OCT	Geometric Mean	630 #/100 ML
	NOV	Geometric Mean	630 #/100 ML

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

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: CORNING CITY OF STP

Permit Number: 0220001

Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
The following monitoring requirements shall be in effect from 08/01/2022 to 07/31/2027				
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 KJELDAHL (AS N)	1 EVERY MONTH	24 HOUR COMPOSITE	RAW WASTE
001	PH	2 TIMES PER WEEK	GRAB	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	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	FINAL EFFLUENT
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	DISSOLVED OXYGEN	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
001	E. COLI	GEO. MEAN 1/3 MONTHS	GRAB	EFFLUENT AFTER DISINFECTION
001	NITROGEN, TOTAL (AS N)	1 EVERY 3 MONTHS	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	PH	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
001	PHOSPHORUS, TOTAL (AS P)	1 EVERY 3 MONTHS	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

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

Special Monitoring Requirements

Outfall # Description

001 LANDFILL LEACHATE

Leachate not to exceed 0.0636 MGD or 63,600 gallons per day.

RAW WASTE FLOW

The raw waste flow sample shall be measured at the flow meter prior to the flow equalization basin. The raw waste flow measurement shall be used when calculating raw waste/influent mass data as this flow meter measures the actual volume of flow the plant receives on a daily basis.

FINAL EFFLUENT FLOW

The final effluent flow shall be calculated by subtracting the flow measured by the magnetic flow meter at lift station #3 (flow to the storage lagoon) from the flow measured at the Parshall flume flow meter after the flow equalization basin. The final effluent flow result shall be used when calculating effluent mass data as this flow is the volume being discharged to the East Nodaway River.

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.

E. COLI

The limit for E. coli specified on the limit page(s) 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 whenever wastewater is being discharged.

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

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

Special Monitoring Requirements, continued

(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: CORNING CITY OF STP

Permit Number: 0220001

Significant Industrial User Discharges:

Significant Industrial User: PRAIRIE SOLID WASTE AGENCY

Outfall # Outfall Description

001 LANDFILL LEACHATE TRUCKED TO CITY WASTEWATER TREATMENT PLANT

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

PRAIRIE SOLID WASTE AGENCY			
Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
FLOW			
	Yearly	30 Day Average	0.0578 MGD
	Yearly	DAILY MAXIMUM	0.0636 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	25.0 LBS/DAY
	Yearly	DAILY MAXIMUM	55.0 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	23.5 LBS/DAY
	Yearly	DAILY MAXIMUM	62.0 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	37.5 LBS/DAY
	Yearly	DAILY MAXIMUM	62.0 LBS/DAY
OIL AND GREASE			
	Yearly	30 Day Average	40.5 MG/L
	Yearly	DAILY MAXIMUM	52.0 MG/L
PH			
	Yearly	DAILY MAXIMUM	9.0 STD UNITS
	Yearly	DAILY MINIMUM	6.0 STD UNITS

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

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: CORNING CITY OF STP

Permit Number: 0220001

PRAIRIE SOLID WASTE AGENCY				
Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
001	AMMONIA NITROGEN (N)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	DAILY DURING DRAWDOWN	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1/WEEK DURING DRAWDOWN	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/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

ADDITIONAL MONITORING REQUIREMENTS

PRAIRIE SOLID WASTE AGENCY

The permittee shall analyze a representative sample of the landfill leachate discharge from Prairie Solid Waste Agency at least annually for each of the pollutants listed below. In addition, the permittee shall monitor the volume of waste discharged and pH, BOD5, TSS, Ammonia Nitrogen, Oil and Grease at the frequencies specified on page 11 of this permit.

Pollutant

TKN
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 (0220001)

Iowa DNR Field Office 4
1401 Sunnyside Ln.
Atlantic, IA 50022

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

Significant Industrial User Discharges:

Significant Industrial User: CASS COUNTY ENVIRONMENTAL CONTROL AGENCY

Outfall # Outfall Description

001 LANDFILL LEACHATE TRUCKED TO CITY WASTEWATER TREATMENT PLANT

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

<i>CASS COUNTY ENVIRONMENTAL CONTROL AGENCY</i>			
<i>Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027</i>			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
FLOW			
	Yearly	30 Day Average	0.0578 MGD
	Yearly	DAILY MAXIMUM	0.0636 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	25.0 LBS/DAY
	Yearly	DAILY MAXIMUM	55.0 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	23.5 LBS/DAY
	Yearly	DAILY MAXIMUM	62.0 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	37.5 LBS/DAY
	Yearly	DAILY MAXIMUM	62.0 LBS/DAY
OIL AND GREASE			
	Yearly	30 Day Average	40.5 MG/L
	Yearly	DAILY MAXIMUM	52.0 MG/L
PH			
	Yearly	DAILY MAXIMUM	9.0 STD UNITS
	Yearly	DAILY MINIMUM	6.0 STD UNITS

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

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: CORNING CITY OF STP

Permit Number: 0220001

CASS COUNTY ENVIRONMENTAL CONTROL AGENCY

Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
001	AMMONIA NITROGEN (N)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	DAILY DURING DRAWDOWN	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1/WEEK DURING DRAWDOWN	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/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

ADDITIONAL MONITORING REQUIREMENTS

CASS COUNTY ENVIRONMENTAL CONTROL AGENCY

The permittee shall analyze a representative sample of the landfill leachate discharge from Cass County Environmental Control Agency at least annually for each of the pollutants listed below. In addition, the permittee shall monitor the volume of waste discharged and pH, BOD5, TSS, Ammonia Nitrogen, Oil and Grease at the frequencies specified on page 15 of this permit.

Pollutant

TKN
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 (0220001)

Iowa DNR Field Office 4
1401 Sunnyside Ln.
Atlantic, IA 50022

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

Significant Industrial User Discharges:

Significant Industrial User: WAYNE-RINGGOLD-DECATUR CO SOLID WASTE MANAGEMENT

Outfall # Outfall Description

001 LANDFILL LEACHATE TRUCKED TO CITY WASTEWATER TREATMENT PLANT

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

<i>WAYNE-RINGGOLD-DECATUR CO SOLID WASTE MANAGEMENT</i>			
<i>Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027</i>			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
FLOW			
	Yearly	30 Day Average	0.0578 MGD
	Yearly	DAILY MAXIMUM	0.0636 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	65.0 LBS/DAY
	Yearly	DAILY MAXIMUM	200.0 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	30.0 LBS/DAY
	Yearly	DAILY MAXIMUM	85.0 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	25.0 LBS/DAY
	Yearly	DAILY MAXIMUM	80.0 LBS/DAY
NITROGEN, TOTAL KJELDAHL (AS N)			
	Yearly	30 Day Average	15.0 LBS/DAY
	Yearly	DAILY MAXIMUM	85.0 LBS/DAY
OIL AND GREASE			
	Yearly	30 Day Average	40.0 MG/L
	Yearly	DAILY MAXIMUM	55.0 MG/L
PH			
	Yearly	DAILY MAXIMUM	10.0 STD UNITS

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

WAYNE-RINGGOLD-DECATUR CO SOLID WASTE MANAGEMENT
Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027

<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
PH			
	Yearly	DAILY MINIMUM	6.0 STD UNITS

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

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: CORNING CITY OF STP

Permit Number: 0220001

WAYNE-RINGGOLD-DECATUR CO SOLID WASTE MANAGEMENT				
Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
001	AMMONIA NITROGEN (N)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1/WEEK DURING DRAWDOWN	GRAB	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/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1/WEEK DURING DRAWDOWN	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/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

ADDITIONAL MONITORING REQUIREMENTS

WAYNE-RINGGOLD-DECATUR COUNTY SOLID WASTE MANAGEMENT

The permittee shall analyze a representative sample of the landfill leachate discharge from Wayne-Ringgold-Decatur County Solid Waste Management at least annually for each of the pollutants listed below. In addition, the permittee shall monitor the volume of waste discharged and pH, BOD5, TSS, TKN, Ammonia Nitrogen, Oil and Grease at the frequencies specified on page 20 of this permit.

Pollutant

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 (0220001)

Iowa DNR Field Office 4
1401 Sunnyside Ln.
Atlantic, IA 50022

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

Significant Industrial User Discharges:

Significant Industrial User: IOWA WASTE SERVICES, LLC

Outfall # Outfall Description

001 LANDFILL LEACHATE TRUCKED TO CITY WASTEWATER TREATMENT PLANT

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

<i>IOWA WASTE SERVICES, LLC</i>			
<i>Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027</i>			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
FLOW			
	Yearly	30 Day Average	0.0578 MGD
	Yearly	DAILY MAXIMUM	0.0636 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	65.0 LBS/DAY
	Yearly	DAILY MAXIMUM	200.0 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	30.0 LBS/DAY
	Yearly	DAILY MAXIMUM	85.0 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	25.0 LBS/DAY
	Yearly	DAILY MAXIMUM	80.0 LBS/DAY
NITROGEN, TOTAL KJELDAHL (AS N)			
	Yearly	30 Day Average	15.0 LBS/DAY
	Yearly	DAILY MAXIMUM	85.0 LBS/DAY
OIL AND GREASE			
	Yearly	30 Day Average	40.0 MG/L
	Yearly	DAILY MAXIMUM	55.0 MG/L

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

IOWA WASTE SERVICES, LLC

Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027

<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
PH			
	Yearly	DAILY MAXIMUM	10.0 STD UNITS
	Yearly	DAILY MINIMUM	6.0 STD UNITS

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

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: CORNING CITY OF STP

Permit Number: 0220001

IOWA WASTE SERVICES, LLC

Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
001	AMMONIA NITROGEN (N)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	DAILY DURING DRAWDOWN	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	NITROGEN, TOTAL KJELDAHL (AS N)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1/WEEK DURING DRAWDOWN	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/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

ADDITIONAL MONITORING REQUIREMENTS

IOWA WASTE SERVICES, LLC

The permittee shall analyze a representative sample of the landfill leachate discharge from Iowa Waste Services, LLC at least annually for each of the pollutants listed below. In addition, the permittee shall monitor the volume of waste discharged and pH, BOD5, TSS, TKN, Ammonia Nitrogen, Oil and Grease at the frequencies specified on page 25 of this permit.

Pollutant

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 (0220001)

Iowa DNR Field Office 4
1401 Sunnyside Ln.
Atlantic, IA 50022

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

Significant Industrial User Discharges:

Significant Industrial User: POET Biorefining - Corning

Outfall # Outfall Description

001 PROCESS BLOWDOWN EFFLUENT WASTE PRIOR TO DISCHARGE TO MUNICIPAL SEWER SYSTEM.

<i>POET Biorefining - Corning</i>			
<i>Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027</i>			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	65 LBS/DAY
	Yearly	DAILY MAXIMUM	200 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	30 LBS/DAY
	Yearly	DAILY MAXIMUM	85 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	15 LBS/DAY
	Yearly	DAILY MAXIMUM	85 LBS/DAY
NITROGEN, TOTAL KJELDAHL (AS N)			
	Yearly	30 Day Average	15 LBS/DAY
	Yearly	DAILY MAXIMUM	85 LBS/DAY
OIL AND GREASE			
	Yearly	30 Day Average	40 MG/L
	Yearly	DAILY MAXIMUM	55 MG/L
PH			
	Yearly	DAILY MAXIMUM	9.0 STD UNITS
	Yearly	DAILY MINIMUM	6.5 STD UNITS

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

<i>POET Biorefining - Corning</i>			
<i>Outfall: 001 Effective Dates: 08/01/2022 to 11/30/2022</i>			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
FLOW			
	Yearly	30 Day Average	0.135 MGD
	Yearly	DAILY MAXIMUM	0.195 MGD

<i>Outfall: 001 Effective Dates: 12/01/2022 to 07/31/2027</i>			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
FLOW			
	Yearly	30 Day Average	0.216 MGD
	Yearly	DAILY MAXIMUM	0.300 MGD

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

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: CORNING CITY OF STP

Permit Number: 0220001

POET Biorefining - Corning				
Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
001	AMMONIA NITROGEN (N)	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1 TIME PER WEEK	GRAB	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	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1 EVERY MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1 EVERY 2 WEEKS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

Design Capacity

Design: 1

The design capacity for the treatment works is specified in Construction Permit Number 2002-417-S, issued March 18, 2003. The treatment plant is designed to treat:

- * An average dry weather (ADW) flow of 0.400 Million Gallons Per Day (MGD).
- * An average wet weather (AWW) flow of 0.543 Million Gallons Per Day (MGD).
- * A maximum wet weather (MWW) flow of 1.100 Million Gallons Per Day (MGD).

- * A design 5-day biochemical oxygen demand (BOD5) load of 831 lbs/day.
- * A design Total Kjeldahl Nitrogen (TKN) load of 192 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: CORNING CITY OF STP

Permit Number: 0220001

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: CORNING CITY OF STP

Permit Number: 0220001

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.

Appendix H.3

Leachate Testing Results



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11D1644

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: Cass Co. Leachate Lagoon

Project / PO Number: N/A
Received: 04/17/2025
Reported: 06/04/2025

Analytical Testing Parameters

Client Sample ID:	Leachate Lagoon	Collected By:	Unknown
Sample Matrix:	Aqueous	Collection Date:	04/16/2025 17:07
Lab Sample ID:	11D1644-01		

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

EPA 5030B/EPA 624.1

Toluene	<1.0	1.0	ug/L	1		04/30/25 0000	04/30/25 1530	RAF
Chlorobenzene	<1.0	1.0	ug/L	1		04/30/25 0000	04/30/25 1530	RAF
Ethylbenzene	<1.0	1.0	ug/L	1		04/30/25 0000	04/30/25 1530	RAF
Surrogate: Dibromofluoromethane	66.2	Limit: 59-123	% Rec	1		04/30/25 0000	04/30/25 1530	RAF
Surrogate: 1,2-Dichloroethane-d4	61.1	Limit: 56-130	% Rec	1		04/30/25 0000	04/30/25 1530	RAF
Surrogate: Toluene-d8	99.5	Limit: 85-113	% Rec	1		04/30/25 0000	04/30/25 1530	RAF
Surrogate: 4-Bromofluorobenzene	86.0	Limit: 82-112	% Rec	1		04/30/25 0000	04/30/25 1530	RAF

Determination of Acid Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

EPA 3520C/EPA 625.1

Phenol	<100	100	ug/L	1		04/22/25 1527	04/29/25 1656	EPP
(3 & 4)-Methylphenol	<100	100	ug/L	1		04/22/25 1527	04/29/25 1656	EPP
Benzoic acid	<500	500	ug/L	1	Q8	04/22/25 1527	04/29/25 1656	EPP
Surrogate: 2-Fluorophenol	112	Limit: 16-140	% Rec	1		04/22/25 1527	04/29/25 1656	EPP
Surrogate: Phenol-d6	111	Limit: 13-147	% Rec	1		04/22/25 1527	04/29/25 1656	EPP
Surrogate: 2,4,6-Tribromophenol	175	Limit: 20-158	% Rec	1	S1	04/22/25 1527	04/29/25 1656	EPP

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

4500CN-E

Cyanide, total	<0.005	0.005	mg/L	1		04/28/25 0815	04/28/25 1533	CES

EPA 150.1

pH	8.6	0.5	pH	1	H4		04/28/25 1333	BSS

EPA 1664A

Oil and Grease	19	4	mg/L	1	A14	04/24/25 1103	04/25/25 0800	RDH

EPA 351.2, Rv. 2 (1993)

Nitrogen, Kjeldahl, total	192	12.5	mg/L	5		04/30/25 0848	05/01/25 1541	SGB

SM 5210 B-2016

BOD (5 day)	19	6	mg/L	3		04/18/25 0947	04/18/25 1110	MND

TIMBERLINE

Nitrogen, Ammonia	133	10.0	mg/L	100		04/22/25 1313	04/22/25 1406	SDF

USGS I-3765-85

Total Suspended Solids (TSS)	215	25	mg/L	25		04/22/25 0740	04/22/25 1407	LAW

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

Microbac Laboratories, Inc., Newton

600 East 17th Street South | Newton, IA 50208 | 641-792-8451 p | www.microbac.com



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1ID1644

Client Sample ID: Leachate Lagoon
Sample Matrix: Aqueous
Lab Sample ID: 1ID1644-01

Collected By: Unknown
Collection Date: 04/16/2025 17:07

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
300.0								
Chloride	1860	50.0	mg/L	50		04/30/25 0000	04/30/25 2325	MID
Sulfate	79.8	50.0	mg/L	50		04/30/25 0000	04/30/25 2325	MID
Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.7								
Iron, total	1.19	0.100	mg/L	1		04/23/25 0708	04/23/25 2340	JAR
EPA 200.7, Rv. 4.4 (1994)								
Arsenic, total	<0.050	0.050	mg/L	1		04/23/25 0708	04/23/25 2340	JAR
Cadmium, total	<0.005	0.005	mg/L	1		04/23/25 0708	04/23/25 2340	JAR
Chromium, total	0.059	0.005	mg/L	1		04/23/25 0708	04/23/25 2340	JAR
Copper, total	<0.010	0.010	mg/L	1		04/23/25 0708	04/23/25 2340	JAR
Lead, total	<0.010	0.010	mg/L	1		04/23/25 0708	04/23/25 2340	JAR
Nickel, total	0.155	0.010	mg/L	1		04/23/25 0708	04/23/25 2340	JAR
Selenium, total	<0.030	0.030	mg/L	1		04/23/25 0708	04/23/25 2340	JAR
Silver, total	<0.005	0.005	mg/L	1		04/23/25 0708	04/23/25 2340	JAR
Zinc, total	0.035	0.020	mg/L	1		04/23/25 0708	04/23/25 2340	JAR
EPA 7470A								
Mercury, total	<0.00050	0.00050	mg/L	1		04/22/25 0640	04/22/25 1435	RVV

Definitions

A14:	Sample was preserved with Hydrochloric Acid to pH <2 on receipt.
DF:	Dilution Factor representing the amount the sample was diluted during analysis and may not represent preparation factors.
H4:	The test was performed outside of the EPA recommended holding time of 15 minutes.
Q8:	CCV recovery is below acceptance limits. The reported value is estimated.
RL:	Reporting Limit
S1:	Surrogate recovery is above acceptance limits.

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
06/04/25 16:41



CH
600 East 17th
Newton, IA 50
641-792-8451



Page 1 of
Printed: 3/28/2025 10:49:01A

www.keystonelabs.com

Page 3 of 3

SITE INFORMATION

Sampler:

Project: Cass Co. Leachate Lagoon

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Brandi Mericle
Cass County Landfill
65928 Jackson Rd
Atlantic, IA 50022

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order 1ID1644

Temperature 1.1

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 Lagoon	Aqueous		<u>4/16/25</u>	<u>17:07</u>	<u>13</u>	624@chlorobenzene 624@toluene 625-900 as-t-200.7 cd-t-200.7 cn-t-4500e cr-t-200.7 fe-t-200.7 nh3-timberline og-i-1664 ph-150.1 so4-300.0 lss-i-3765-85	624@ethylbenzene 624-base-analysis ag-t-200.7 bod-5210 cl-300.0 cr+6-218.6 cu-t-200.7 hg-l-7470 ni-t-200.7 pb-t-200.7 se-t-200.7 tkr-351.2 zn-l-200.7	<u>01</u>

J. Ogle 4/17/25
Relinquished By Date/Time

Received By Date/Time

Relinquished By Date/Time
Sebastian 4/17/25 10:15
Received for Lab By Date/Time

Original - Lab Copy Yellow - Sampler Copy

Remarks: