

2023 ANNUAL GROUNDWATER QUALITY REPORT

**FOR THE
SOUTH DALLAS COUNTY SANITARY LANDFILL
25-SDP-01-75P
ADEL, IOWA**

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Table of Contents

Certification

Section 1.0 Background Information

Monitoring Well Maintenance Performance Reevaluation

Section 2.0 Reporting Period Activities

Section 3.0 Data Evaluation and Summary

Quality Assurance/Quality Control

Background data Validation

Site Specific GWPS

Statistically Significant Increases/Exceedances of Prediction Limits

Assessment Monitoring

Statistically Significant Levels

Assessment of Corrective Measures

Corrective Action Evaluations & Monitoring

Section 4.0 Leachate Collection System Performance Reevaluation

Section 5.0 Gas Monitoring Evaluation

Section 6.0 Recommendations

Figures

Figure 1 – Site Plan & Gas Monitoring Locations

Figure 2 – Water Table Contour Map

Tables in IDNR Format

Table 1 – Monitoring Program Summary

Table 2 – Monitoring Program Implementation Schedule

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

Table 3 – Monitoring Well Maintenance Performance Reevaluation Schedule

Table 4 – Monitoring Well Maintenance Performance Reevaluation Summary

Table 4A – Historic Water Level & Elevation Summary

Table 5 – Background and GWPS Summary

Table 6 – Summary of Detections

Table 7 – Summary of Ongoing and Newly Identified SSI

~~Table 8 – Summary of Ongoing and Newly Identified SSL – Not Used~~

Table 9 – Analytical Data Summary

~~Table 10 – Historic SSI and SSL – Not Used~~

~~Table 11 – Corrective Action Trend Analysis – Not Used~~

Table 12 – Gas Monitoring Summary

Appendices

Appendix A - Field Sampling Forms

Appendix B - Statistical Reports

Appendix C - Laboratory Reports for Report Period

Appendix D – Turbidity


Appendix E – Prediction Limit Exceedances

Appendix F - Assessment Monitoring Results

Appendix G – Leachate Collection System Layout Map

Appendix H - Leachate Collection System Performance Evaluation Information

Certification

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Section 1.0 Background Information

1.1 Report Format

This report is prepared and submitted in accordance with Special Provision 3.h. of the Permit, dated October 10, 2023 (Doc #107884). Table 1 through Table 12 are attached to this report to meet the IDNR format requirements. Note that the Tables may not be referenced in consecutive order in this report, and some Tables are not used.

1.2 Report Priority

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

1.3 Period of Report Coverage

Water quality data evaluation is based on a running compilation of data beginning on October 16, 2014. Statistical evaluations herein are based on the most recent water quality data collected September 11, 2023.

1.4 Current Site Map

Figure 1 is attached illustrating the current site features, monitoring well locations, groundwater diversion lines, leachate wells, and subsurface gas probe locations.

1.5 Site Status and Applicable Rules

Site Location

The landfill property spans about 42.5 acres in an abandoned clay quarry in the S 1/2, N 1/2 sec. 30, T. 79 N., R. 27 W., on the northwest edge of the City of Adel in Dallas County, Iowa. The facility operates under the Iowa Department of Natural Resources (IDNR) Permit Number 25-SDP-1-75P. Under an agreement with the Metro Waste Authority (MWA) and the Metro West Landfill (formerly the North Dallas County Landfill) some waste is also accepted from the MWA service area. Asbestos and petroleum-contaminated soils are also periodically accepted by the landfill.

The site is generally described as being developed in glacial till that is overlying shale bedrock.

Landfill Layout

Originally, there were two areas receiving waste: the southwest and northeast fill areas. Based on the Horizontal Landfill Expansion Development and Operational Plans, dated May 1998, the two areas were developed into one expanded landfill. Approximately 8 acres of the expansion were developed as Phase 1 (1999) and Phase 2 (2005) utilizing an approved Subtitle-D alternative clay-liner. Phase 3 was constructed during the summer/fall of 2011 with a composite FML-liner resulting in an additional 6.5 acres. Phase 4 was constructed during the fall of 2017 and consists of approximately 4.5 acres. Phase 5 was completed during the fall of 2021 and includes an additional 3.3 acres.

The southwestern and northeastern fill areas received final cover, but during the past several years, excavation and removal of the waste and cover in the southwestern area has been ongoing and a portion is now Phase 5. The northeastern area remains closed.

Applicable Rules

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

1.6 Summary of Hydrologic Monitoring System Plan (HMSP)

The HMSP includes upgradient monitoring points MW-2, MW-9, MW-17, MW-18, MW-19A, and MW-24. There are eight (8) downgradient monitoring points designated MW-10, MW-12, MW-15R, MW-20R, MW-4, MW-5, MW-21, and MW-22. Step-out Corrective Action Monitoring wells MW-25 and MW-26 are also part of the HMSP.

GWD-1 (groundwater diversion underdrain) was removed from the monitoring system when it was connected to the leachate collection system on August 15, 2023 (Doc #107672).

The current HMSP is summarized in Table 1. The HMSP Implementation Schedule for 2024 is itemized in Table 2.

MONITORING WELL MAINTENANCE PERFORMANCE REEVALUATION

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

High & Low Water Levels

Current year water elevation data is included on Table 4. Historic water elevation data (1992-2023) is included in the Table 4A. A Water Table Contour Map (Figure 2) dated September 11, 2023 is included with this report and illustrates the water table surface and the effects of the topography.

Review of the 2023 water elevation data does not indicate any remarkable water elevation conditions.

Well Depth & Sedimentation

Well depth measurements were made September 11, 2023. Review of the well depth data included on Table 4 indicate that well sedimentation is estimated to be less than one (1) foot at all site monitoring wells.

Well Recharge Rates & Chemistry

The most recent measured horizontal hydraulic conductivity testing results (1998-2003) for site monitoring wells is included on Table 4. Horizontal hydraulic conductivities ranged between 10^{-4} cm/sec and 10^{-6} cm/sec.

Field recovery data recorded on March 8, 2022 (also on Table 4) indicates that the monitoring wells recover to at least 90% recovery within 3 to 24 hours after purging. The exception is at MW-

5 and MW-19A where more than 24 hours was required for the well to recover. Well recovery information indicates that recharge to the individual wells remained sufficient to promote collection of representative water quality samples and the wells were functioning as intended. Monitoring well recharge reevaluation is due biennially according to 113.10(2)"f", and should be evaluated again in 2024.

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

Section 2.0 Reporting Period Monitoring Activities

A summary of the planned 2024 sample collection events at each well is included on Table 2. A comprehensive summary of sampling episodes from 2014 to present is included on Table 2A.

Field sampling information for the March 7, 2023 and September 11, 2023 sampling episodes is included on the field forms (IDNR Form 542-1322) in Appendix A.

A comprehensive summary of Analytical Data for the episodes between October 16, 2014 and September 11, 2023 is included on Table 9.

2.1 Current Detection Monitoring Activities

Background wells are MW-2, MW-9, MW-17, MW-18, MW-19A, and MW-24.

Downgradient monitoring points include MW-10, MW-12, MW-15R, MW-20R, MW-4, MW-5, MW-21, and MW-22.

MW-10, MW-12, MW-15R, and MW-20R remain in the detection monitoring system.

MW-4, MW-5, MW-21, and MW-22 are in the assessment monitoring system.

MW-25 and MW-26 are in the Corrective Action Monitoring System as step-out wells.

2.2 Current Assessment Monitoring Activities

MW-4, MW-5, MW-21, and MW-22 are in the assessment monitoring system. A five (5) year frequency for full Appendix II sampling was approved in Special Provision X.3.e. of the Permit, dated October 10, 2023 (Doc #107884).

Two (2) rounds of full Appendix II sampling are completed at MW-4, MW-21, and MW-22. Three (3) rounds of full Appendix II sampling are completed at MW-5. The next full Appendix II sample collection event is scheduled to occur at MW-5 in 2025 and at MW-4, MW-21, and MW-22 in 2026 (Table 2).

2.3 Current Corrective Action Activities

An Assessment of Corrective Measures (ACM) report was submitted to IDNR on June 29, 2011. Two step-out wells (MW-25 and MW-26) were installed in February 2016 to determine the extent of the contamination and have subsequently been monitored for those constituents that were required as part of the ACM.

A selected remedy was presented in the Assessment of Corrective Measures dated June 29, 2011. To date, the portions of the remedy that have been implemented include the installation of the step-out wells (MW-25 and MW-26) and installation of the electric fans on the gas vents along the north portion of the NE area.

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 South Dallas County Sanitary Landfill, First Semi-Annual Monitoring Event in 2023, dated April, 2023 is included in Appendix B.1. The Groundwater Statistics Report for the South Dallas County Sanitary Landfill, Second Semi-Annual Monitoring Event in 2023, dated October, 2023 is included in Appendix B.2.

The Keystone Analytical Reports for the laboratory testing on samples collected March 7, 2023 and September 11, 2023 are included in Appendix C.

QUALITY ASSURANCE/QUALITY CONTROL

A blind duplicate sample was collected at MW-21 during the March 7, 2023 sampling episode. A blind duplicate sample was collected at MW-15R during the September 11, 2023 sampling episode.

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

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

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

The results of the blind duplicate and the monitoring well results for March 7, 2023 and September 11, 2023 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 # 80694). A TSS and Field Turbidity Evaluation Report was prepared and submitted on December 14, 2017 (Doc# 91108) and was approved by IDNR on December 27, 2017 (Doc #91169). A summary table of field measured turbidity is included in Appendix D.

The background data utilized herein has been restricted to include only sample results that have been collected by “No Purge” methods in order to avoid turbidity related issues that may have been associated with historic sample collection methods. No-purge sampling has been performed at the facility beginning with the October 16, 2014 sampling episode.

Upgradient Data, Table 1, Attachment B, to the October, 2023 Statistical Evaluation Report (Appendix B.2) includes a summary of the most current background data. Any water quality results tagged with an asterisk is a statistical outlier and is excluded from use in calculating the Prediction Limits. The calculated Prediction Limits are summarized in Table 5.

SITE SPECIFIC GWPS

Review of the information included on Table 5 indicates that the prediction limit for arsenic (167.0 ug/L), cobalt (38.312 ug/L), and thallium (2.3 ug/L) calculated from the background data exceeds the published IAC 567, Chapter 137 Statewide Standards (10 ug/L, 2.1 ug/L, and 2.0 ug/L, respectively). The Site-Specific GWPS should not be set lower than the Site Prediction Limit calculated from the site background data. For this report, the prediction limits for arsenic (167.0 ug/L), cobalt (38.312 ug/L), and thallium (2.3 ug/L) are utilized as the Site-Specific GWPS. For all other compounds the published IAC 567, Chapter 137 Statewide Standard are utilized as the GWPS.

STATISTICALLY SIGNIFICANT INCREASES (SSI)

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

Since the Prediction limit for VOC is set at the laboratory Reporting Level, any VOC detection is recorded as an SSI. Table 6 is a summary of all compounds at site monitoring wells that have exceeded a *current* prediction limit in 2023. There are *no verified prediction limit exceedances* recorded in the current detection monitoring system wells.

Prediction limit exceedances are again recorded at wells that are currently included in the assessment monitoring system (MW-4, MW-5, MW-21, and MW-22). Table 7 includes an on-going summary of compound detections that exceed the prediction limits (highlighted in light brown).

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

Exceedance of the Prediction Limits for the current year is summarized on Table 1. A running summary of recorded Prediction Limit exceedances by year since 2020 is included in Appendix E.

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

ASSESSMENT MONITORING SUMMARY

A five (5) year frequency for full Appendix II sampling was approved in Special Provision Special Provision X.3.e. of the Permit, dated October 10, 2023 (Doc #107884).

The full Appendix II (assessment) monitoring is current. Two (2) rounds of full Appendix II sampling are completed at MW-4, MW-21, and MW-22. Three (3) rounds of full Appendix II sampling are completed at MW-5.

The on-going supplemental sampling includes Appendix I plus all detected Appendix II compounds per 113.10(6)b.2. Compounds detected to date beyond the Appendix I list are limited to dichlorodifluoromethane and bis(2-ethylhexyl) phthalate.

The summary of assessment monitoring detections October 16, 2014 to date is presented in Appendix F. The full Appendix II sampling episodes are highlighted in green in the tables in Appendix F.

Based on the results to date, dichlorodifluoromethane and bis (2-ethylhexyl) phthalate will continue to be monitored as appropriate to findings during assessment monitoring episodes at assessment monitoring wells (see Table 2).

STATISTICALLY SIGNIFICANT LEVELS (SSL)

The compounds with detections that exceed site prediction limits (see summary in Tables 1 & 7) are utilized to calculate the Confidence Interval (the 95% lower confidence limits (LCL) and the 95% upper control limits (UCL)) in accordance with the 2009 Unified Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities by US EPA. The 95% LCL values are compared to applicable GWPS. Any 95% LCL value that exceeds an applicable

GWPS is recorded as an SSL. All wells with a recorded SSL required the plume of impact to be defined in the horizontal and vertical directions and required completion of an Assessment of Corrective Measures (ACM).

The SSL Evaluation is based on data collected since October 16, 2014. The Confidence Intervals (95% LCL and 95% UCL) are calculated during each statistical evaluation based on the most recent four (4) data points. The 95% LCL evaluation is presented in Table 7. *There are no exceedances recorded.* Any exceedance would be highlighted yellow on Table 7. Note that Table 8, Table 10, and Table 11 are not required for this report.

ASSESSMENT OF CORRECTIVE MEASURES (ACM)

Based on water quality findings prior to changes in sampling methods (October 16, 2014) an Assessment of Corrective Measures (ACM) report was submitted to IDNR on June 29, 2011. Two step-out wells (MW-25 and MW-26) were installed in February 2016 to determine the extent of the contamination and have subsequently been monitored as Corrective Action Monitoring Wells for those constituents that were required as part of the 2011 ACM. The selected remedy was presented in the Assessment of Corrective Measures dated June 29, 2011. To date, the portions of the remedy that have been implemented include the installation of the step-out wells (MW-25 and MW-26) and installation of the electric fans on the gas vents along the north portion of the NE area.

CORRECTIVE MEASURES MONITORING

On-going semi-annual monitoring at MW-25 and MW-26 includes arsenic, barium, and vinyl chloride.

Results are tabulated below.

Review of the data indicates that vinyl chloride has not been detected to date at either MW-25 or MW-26 and is consistently reported as below the MRL of 1.0 ug/L.

Review of the results indicates that arsenic and barium detections are below the GWPS during each monitoring event, with the exception of arsenic at MW-26 on August 30, 2022. The reported result for arsenic at MW-26 on August 30, 2022 (203 ug/L) exceeds the GWPS (167.0 ug/L). Review of the field data on August 30, 2022 indicates that the sample was visibly orange and had a reported turbidity that exceeded the range of the meter (>1000.0 NTU). The elevated arsenic concentration on August 30, 2022 is attributed to the oxidized nature of the water existing in the monitoring well. Arsenic is below the GWPS at MW-25 and MW-26 during 2023.

MW-26 was redeveloped on March 7, 2023. The 2023 semi-annual sampling and analyses at MW-26 indicates that the 2022 result was likely anomalous and that redevelopment of the well successfully addressed the issue.

Monitoring Well	Date	Compound	Result (ug/L)	GWPS (ug/L)
MW-25	4/4/2016	Arsenic	<4.0	167.0
MW-25	9/20/2016	Arsenic	4.2	167.0
MW-25	4/24/2017	Arsenic	<4.0	167.0
MW-25	10/9/2017	Arsenic	4.0	167.0
MW-25	3/21/2018	Arsenic	<4.0	167.0
MW-25	9/7/2018	Arsenic	<4.0	167.0
MW-25	4/2/2019	Arsenic	<4.0	167.0
MW-25	9/18/2019	Arsenic	NT	167.0
MW-25	3/25/2020	Arsenic	<4.0	167.0
MW-25	9/15/2020	Arsenic	<4.0	167.0
MW-25	3/8/2021	Arsenic	<4.0	167.0
MW-25	9/28/2021	Arsenic	<4.0	167.0
MW-25	3/8/2022	Arsenic	<4.0	167.0
MW-25	8/30/2022	Arsenic	<4.0	167.0
MW-25	3/7/2023	Arsenic	<4.0	167.0
MW-25	9/11/2023	Arsenic	<4.0	167.0
MW-25	4/4/2016	Barium	94.9	4,179.77
MW-25	9/20/2016	Barium	105.0	4,179.77
MW-25	4/24/2017	Barium	109.0	4,179.77
MW-25	10/9/2017	Barium	98.4	4,179.77
MW-25	3/21/2018	Barium	85.3	4,179.77
MW-25	9/7/2018	Barium	150.0	4,179.77
MW-25	4/2/2019	Barium	102.0	4,179.77
MW-25	9/18/2019	Barium	NT	4,179.77
MW-25	3/25/2020	Barium	84.5	4,179.77
MW-25	9/15/2020	Barium	102.0	4,179.77
MW-25	3/8/2021	Barium	91.4	4,179.77
MW-25	9/28/2021	Barium	107.0	4,179.77
MW-25	3/8/2022	Barium	71.4	4,179.77
MW-25	8/30/2022	Barium	113.0	4,179.77
MW-25	3/7/2023	Barium	105.0	1,322.72
MW-25	9/11/2023	Barium	118.0	1,305.63
MW-25	4/4/2016	Vinyl Chloride	<1	2.0
MW-25	9/20/2016	Vinyl Chloride	<1	2.0
MW-25	4/24/2017	Vinyl Chloride	<1	2.0
MW-25	10/9/2017	Vinyl Chloride	<1	2.0
MW-25	3/21/2018	Vinyl Chloride	<1	2.0
MW-25	9/7/2018	Vinyl Chloride	<1	2.0
MW-25	4/2/2019	Vinyl Chloride	<1	2.0
MW-25	9/18/2019	Vinyl Chloride	NT	2.0
MW-25	3/25/2020	Vinyl Chloride	<1	2.0
MW-25	9/15/2020	Vinyl Chloride	<1	2.0
MW-25	3/8/2021	Vinyl Chloride	<1	2.0
MW-25	9/28/2021	Vinyl Chloride	<1	2.0
MW-25	3/8/2022	Vinyl Chloride	<1	2.0
MW-25	8/30/2022	Vinyl Chloride	<1	2.0
MW-25	3/7/2023	Vinyl Chloride	<1	2.0
MW-25	9/11/2023	Vinyl Chloride	<1	2.0

Yellow = Exceeds GWPS

Monitoring Well	Date	Compound	Result (ug/L)	GWPS (ug/L)
MW-26	4/4/2016	Arsenic	17.7	167.0
MW-26	9/20/2016	Arsenic	19.7	167.0
MW-26	4/24/2017	Arsenic	19.8	167.0
MW-26	10/9/2017	Arsenic	26.2	167.0
MW-26	3/21/2018	Arsenic	31.6	167.0
MW-26	9/7/2018	Arsenic	72.6	167.0
MW-26	4/2/2019	Arsenic	74.9	167.0
MW-26	9/18/2019	Arsenic	44.2	167.0
MW-26	3/25/2020	Arsenic	55.0	167.0
MW-26	9/15/2020	Arsenic	59.0	167.0
MW-26	3/8/2021	Arsenic	17.0	167.0
MW-26	9/28/2021	Arsenic	81.9	167.0
MW-26	3/8/2022	Arsenic	7.2	167.0
MW-26	8/30/2022	Arsenic	203.0	167.0
MW-26	3/7/2023	Arsenic	23.8	167.0
MW-26	9/11/2023	Arsenic	101.0	167.0
MW-26	4/4/2016	Barium	581	4,179.77
MW-26	9/20/2016	Barium	592	4,179.77
MW-26	4/24/2017	Barium	552	4,179.77
MW-26	10/9/2017	Barium	706	4,179.77
MW-26	3/21/2018	Barium	588	4,179.77
MW-26	9/7/2018	Barium	1170	4,179.77
MW-26	4/2/2019	Barium	986	4,179.77
MW-26	9/18/2019	Barium	879	4,179.77
MW-26	3/25/2020	Barium	692	4,179.77
MW-26	9/15/2020	Barium	1130	4,179.77
MW-26	3/8/2021	Barium	428	4,179.77
MW-26	9/28/2021	Barium	1250	4,179.77
MW-26	3/8/2022	Barium	232	4,179.77
MW-26	8/30/2022	Barium	1620	4,179.77
MW-26	3/7/2023	Barium	341	1,322.72
MW-26	9/11/2023	Barium	1,250	1,305.63
MW-26	4/4/2016	Vinyl Chloride	<1	2.0
MW-26	9/20/2016	Vinyl Chloride	<1	2.0
MW-26	4/24/2017	Vinyl Chloride	<1	2.0
MW-26	10/9/2017	Vinyl Chloride	<1	2.0
MW-26	3/21/2018	Vinyl Chloride	<1	2.0
MW-26	9/7/2018	Vinyl Chloride	<1	2.0
MW-26	4/2/2019	Vinyl Chloride	<1	2.0
MW-26	9/18/2019	Vinyl Chloride	<1	2.0
MW-26	3/25/2020	Vinyl Chloride	<1	2.0
MW-26	9/15/2020	Vinyl Chloride	<1	2.0
MW-26	3/8/2021	Vinyl Chloride	<1	2.0
MW-26	9/28/2021	Vinyl Chloride	<1	2.0
MW-26	3/8/2022	Vinyl Chloride	<1	2.0
MW-26	8/30/2022	Vinyl Chloride	<1	2.0
MW-26	8/30/2022	Vinyl Chloride	<1	2.0
MW-26	8/30/2022	Vinyl Chloride	<1	2.0

Yellow = Exceeds GWPS

Section 4.0 Leachate Collection System Performance Evaluation

A revised Leachate Control Plan (LCP) for the South Dallas County SLF was submitted to the IDNR in March 1994 and approved April 1994.

Construction of five leachate collection/recovery wells occurred during March 1995. An enclosed load-out building was also constructed during that summer. Pumps and related controls were installed later in the year and the system became fully operational in January 1996. Construction certification documents were submitted in February 1996. Leachate was initially collected and hauled in a tank truck to the City of Adel Wastewater Plant for treatment and disposal.

During fall 1998, a Subtitle D-equivalent horizontal expansion with a leachate under-drain collection system and a groundwater drainage system was constructed in accordance with the approved plans. The design included the addition of a second leachate storage tank with a 10,000-gallon capacity. The placement of waste in this new expansion began in April 1999. An additional piezometer (PZ-12 on monthly report) was also installed to monitor the leachate head on the expansion liner.

During April and May of 2003, the original leachate storage tank was abandoned, and all piping and electrical components rerouted to the 10,000-gallon storage tank installed in 1998. The 10,000-gallon tank became the primary storage vessel with a new pump, piping, and electrical controls. Another identical 10,000-gallon storage tank was installed to act as an overflow and backup vessel. Total on-site storage capacity is 20,000 gallons.

In 2006, the leachate level measurements were believed to be inaccurate for some of the piezometers. It was determined that a more accurate method for measuring the leachate head in the unlined landfill was to measure the static levels in the leachate recovery wells. The wells were fitted with a port to allow for routine measurement of the leachate levels. In addition, the pump in each of the wells was pulled and replaced with a new unit and new control system. The top of the casing on each of the leachate recovery wells was resurveyed.

In the fall of 2006, a force main was installed and connected directly to the City of Adel's sewer system. The volumes are metered and recorded daily when the landfill is open.

During the summer of 2007, an additional leachate well (LW-6) was installed in the NE area of the old site. This new leachate well is approximately 80-foot deep. A pump was installed and piped directly into the force main in 2008 and has been operated at a rate that will prevent blinding of the well casing screen.

A new control system was installed on all the leachate recovery wells during 2010. The new controls are designed to operate for two hours and then shut down for a short time period. The new controls will eliminate the problems the site was experiencing with typical level probes that malfunctioned. The new system will also significantly extend the life of the well pumps.

A letter dated July 15, 1998 approved a variance request allowing a reduction in the frequency of level measurements from monthly to quarterly. Monitoring ports were installed on the leachate recovery wells to allow for level measurements because several of the two-inch piezometers had become plugged, bent or damaged preventing the use of measuring equipment in them. During 2010, Agency staff conducted recovery well level readings at two-hour intervals to determine the recovery well recharge and static levels. This monitoring occurred over four months and was summarized for the IDNR to review. In a proposal dated August 4, 2010 and based upon the data provided, the Agency requested that the six leachate recovery wells be used for monthly leachate level measurements and that eight of the leachate piezometers be abandoned and removed from the leachate monitoring program due to their inability to function as accurate measuring devices. The proposed monitoring plan was approved by the IDNR in permit amendment #1 dated September 24, 2010.

During the summer of 2011, Phase 3 was constructed with a Subtitle D composite liner. The leachate line in Phase 3 was connected to the leachate lines installed during Phase 1 and flow into the leachate pump station. LPZ-13 was installed at the north end of Phase 3 to monitor the leachate levels on the Subtitle D composite liner. LPZ-13 also serves as the leachate head monitoring point for Phase 4 and Phase 5.

During May of 2012, a new leachate force main was installed between the leachate wet well and the valve pit that connects to the storage tanks and to the force main going to the City of Adel sewer system. Replacing the line improved the pumping capacity of the system. As built documents were submitted and approved by IDNR in Permit Amendment #9 dated October 4, 2012.

Phase 4 was constructed during the fall of 2017. The leachate collection lines from this cell are connected to the Phase 3 collection lines.

Excavation of the old SW non-compliant cell began in 2016. LPZ-9A was abandoned early in this process. As the excavation continues, LW-1 will be removed in the future. The west portion of the SW area has been reconstructed as a Subtitle D composite lined cell (Phase 5) and began receiving waste in 2021. Leachate from this cell flows into the existing leachate collection system via Phases 3 and 4.

During October 2018, the pump in the leachate wet well malfunctioned and a replacement was delayed. To prevent an accumulation of leachate on the lined cells, staff recirculated the leachate over the intermediate cover of Phase 3. The leachate head was carefully monitored during recirculation. Once a new pump was installed, the leachate in Phase 4 began developing a hydrogen sulfide odor. Pumping to the City of Adel Wastewater Treatment Plant proved to be a problem due to the odor released when the landfill leachate force main entered the city manhole.

On November 5, 2018, a chemical treatment system using potassium permanganate was installed and pumping to the City of Adel sewer system was resumed. A permanent system has been installed and continues to be monitored and operated as needed to prevent any odors. The hydrogen sulfide odor was believed to be the result of heavy precipitation passing through gypsum wall board and becoming anaerobic in the waste cell.

As reported in the 2023 Semi-Annual Water Quality Notification Letter submitted on April 18, 2023 (Doc #106395), concentrations of vinyl chloride that exceeded the site's Prediction Limit were noted at GWD-1 during the March 7, 2023 sampling event. The exceedance was verified by sampling on May 10, 2023 and June 8, 2023. As a result, the groundwater diversion system was connected to the leachate conveyance system. This work was documented in the Construction Certification for the Groundwater Diversion Piping Modification dated September 11, 2023 (Doc #107672) and approved in the October 10, 2023 SDP Permit revision. GWD-1 was eliminated as a result of this work.

Leachate Treatment and Disposal

Between January 1, 2023, and December 31, 2023, approximately 68,842 gallons of leachate were pumped to the Adel Wastewater Treatment Facility for treatment and disposal. A summary of the leachate volume pumped by month is included in Appendix H.1. A copy of the current Leachate Treatment Agreement with the City of Adel with an effective date of January 1, 2021 is included in Appendix H.2. Leachate laboratory testing results in accordance with the treatment agreement are included in Appendix H.3.

A Permit Amendment Request to Recirculate Leachate was submitted on October 5, 2012 (Doc #74384) and approved on May 17, 2013. The approval covers leachate recirculation on the Subtitle D composite lined disposal areas (Phases 3, 4, and 5).

Leachate is recirculated either on the surface utilizing a 2,000 gallon tank with spray arm or directly into the waste mass utilizing a buried perforated pipe. The pipe was installed in 2022, details on the installation are below.

A leachate recirculation line was installed in July, 2022 to recirculate leachate by introducing it directly into the waste mass over the Subtitle D composite liner in Phase 3. The leachate recirculation piping is 2 inch diameter, HDPE SDR 7. The last 300' of the piping was perforated with a set of ¼" diameter holes at 15' horizontal spacing (20 sets of perforations total). The existing leachate pump is being used for recirculation - valving was installed at the existing leachate pump station to allow leachate to be directed either to the leachate force main for conveyance to the City of Adel Sanitary Sewer System or to the leachate recirculation piping. A Construction Certification Report for the piping installed during July, 2022 was submitted to IDNR on July 19, 2022 (Doc #103652).

The perforated recirculation piping was extended into Phase 4 during November, 2022. A Construction Certification Report for the piping installed during November, 2022 was submitted to IDNR on November 11, 2022 (Doc #104558).

Based on the data in Appendix H.4, approximately 935,000 gallons of leachate were recirculated using the tank and 274,500 gallons of leachate were recirculated using the buried pipe for a total of 1,209,500 gallons of leachate recirculated in 2023.

Leachate Level Monitoring – Closed Landfilling Areas

The permit requires quarterly monitoring of the leachate piezometers in the unlined areas at LW-1, LW-2, LW-3, LW-4, LW-5, LW-6, LPZ-1, and LPZ-3.

Prior to monitoring the leachate recovery wells (LW-1, LW-2, LW-3, LW-4, LW-5, and LW-6), the pumps are shut down and the wells allowed to recharge for a minimum of four hours before levels are measured.

Leachate level measurement data for the piezometers in the closed landfilling areas (NE Area and SW Area) is included in Appendix H.5. The data for the leachate wells in the Closed Landfilling Areas shows that leachate elevations have remained relatively consistent in 2023 in comparison with past elevations. The interpretation is made that the LCS (illustrated on the Figure in Appendix G) is effective in controlling the leachate head in the Closed Landfill Areas. Quarterly measurements of the leachate piezometers in the Closed Landfilling Areas will continue in 2024.

Leachate Level Monitoring – RCRA Subtitle D Lined Areas

Monitoring of the leachate piezometers in the lined Subtitle D cells is conducted monthly. LPZ-12 is the piezometer measuring leachate head on the liner in the Subtitle D alternative lined Phases 1 and 2. LPZ-13 is the piezometer measuring leachate head on the Subtitle D composite lined Phases 3, 4, and 5. The table in Appendix H.5 provides the results of the 2023 monitoring events and shows that all measurements recorded less than 12” of leachate thickness.

Based on the leachate head data, the leachate collection system appears to be operating as designed. No changes are recommended.

Separation of the base of solid waste and the groundwater table is evaluated through observation of groundwater elevation measurements collected from the groundwater piezometer located in the Phase expansion.

Groundwater head measurements are required semiannually in accordance with the SDP Permit. Groundwater head measurements in 2023 are summarized as:

Date/Location	Phase 3 (GWPZ-1)
1/13/23	<1”
2/13/23	<1”
3/6/23	<1”
4/6/23	<1”
5/17/23	<1”
6/5/23	<1”
7/31/23	<1”
8/21/23	<1”
9/24/23	<1”
10/30/23	<1”
11/23	<1”
12/23	<1”

Based on the groundwater head data presented above separation is maintained between the base of solid waste and the groundwater surface. No changes are recommended.

Leachate Line Cleaning

IAC 567-113.7(5)b(5) requires that the leachate system be cleaned every three (3) years at a minimum. The leachate gravity collection lines were cleaned in 2022. The leachate lines should be cleaned again in 2025 in accordance with regulations.

Performance Evaluation

Staff may extend the leachate recirculation piping in 2024. No other modifications to the leachate collection system are recommended for 2024.

Section 5.0 Gas Monitoring

Explosive gas monitoring per 113.9(2) and the approved Gas Monitoring System Plan (GMSP) in Special Provision X.5. of the SDP Permit was conducted quarterly during the last reporting period (2023) with the exception of MW-4, MW-5, MW-22, MW-25, and MW-26. Measurement at these points was inadvertently omitted in 2023 and will commence in 2024. The monitoring includes both indoor ambient air monitoring in buildings and subsurface monitoring in dedicated gas probes, gas vents, and monitoring wells.

Monitoring points currently include five (5) buildings, ten (10) subsurface gas probes, four (4) gas vents, and five (5) monitoring wells. Figure 1 illustrates the monitoring points. A brief description of each monitoring point is below:

- GP-1 is in southwest corner of the site near MW-19A.
- GP-2 is located near MW-17 in the northwest corner of the site.
- GP-3 is located on the north side of the site near MW-22 and was damaged in 2023. The GP was repaired by staff on February 21, 2024.
- GP-3R is a step-out probe to GP-3 and was installed during spring 2011 approximately 50 ft. north and part way down the slope that drops to the creek. Since its installation, GP-3R has never had any landfill gas detected.
- GP-4 is located on the east side of the landfill near MW-21. Following periodical detections of methane in GP-4, another probe, GP-4R was installed during September 2011 at the east property line, about 50 ft southeast of GP-4. Since its installation, GP-4R has never had any landfill gas detected.
- GP-5 is the ground water wet well on the north side of the site. In January 2012, methane gas was detected in GP-5. At IDNR's suggestion, the solid manhole cover was replaced with a grated cover. This action corrected the methane gas problem at this location and no landfill gas detections have occurred since.
- GP-6 was placed in the leachate force main trench that runs from the leachate tanks across the creek on the south to a City of Adel lift station east of the landfill. After review of the deposited waste's proximity to GP-6, a step-out gas probe (GP-6R) was installed approximately 100 ft. east of GP-6 and across the leachate force main. Since its installation, GP-6R has never had any landfill gas detected.
- GP-7 was installed north of MW-16 (which was abandoned in 2021) along the north creek.
- GV-1, GV-2, GV-4, and GV-5 are vents for the gas venting system discussed below.
- MW-4, MW-5, MW-22, MW-25, and MW-26 are also monitored in accordance with the GMSP.
- In addition, all site structures are monitored. None of the structures have ever had a landfill gas detection.

Gas Venting System

The gas venting system was installed during October 2009. The system consists of excavated trenches approximately 10-12 ft in depth with a width of approximately 24 inches. The trench depth was intentionally kept above the water table to avoid exposing the groundwater to any methane gas. Approximately one foot of tire chips was placed in the bottom of the trench. A 4-inch perforated plastic drainage pipe with filter "sock" was laid in the trench and an additional foot of tire chips placed on top. The pipe was looped to the surface to vent. The trench was backfilled with dirt. The trenches and vents were surveyed during the fall of 2011.

Wind-driven turbines were installed on some of the vents during 2010. During June 2011, some of the vents were equipped with solar operated fans. Large wind-driven turbines were also installed on the leachate recovery wells.

Construction certification documents for the gas collection system were developed and submitted to IDNR on March 13, 2012 (Doc #69304). These documents were approved in Permit Amendment #9 dated October 4, 2012.

During July and August of 2013, explosion-proof electric fans were installed on gas vents GV-1, GV-2, GV-4, and GV-5 to provide a positive draw on the gas venting system 24 hours per day.

Gas is periodically detected in GP-3. Note that GP-3 was reported as damaged and was unable to be measured during the fourth quarter of 2023. The point was repaired by staff on February 21, 2024 and measurements will resume. No gas was detected in the step-out probe (GP-3R) in 2023.

Explosive gas concentrations (%LEL) were undetected *or* were below action levels during the monitoring episodes. A summary table of gas monitoring is included as Table 12.

Section 6.0 Recommendations

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

It is recommended that the prediction limits for arsenic (167.0 ug/L), cobalt (38.312 ug/L), and thallium (2.3 ug/L) continue to be utilized as the Site-Specific GWPS. For all other compounds, it is recommended that the published IAC 567, Chapter 137 Statewide Standard be utilized as the GWPS.

Figures

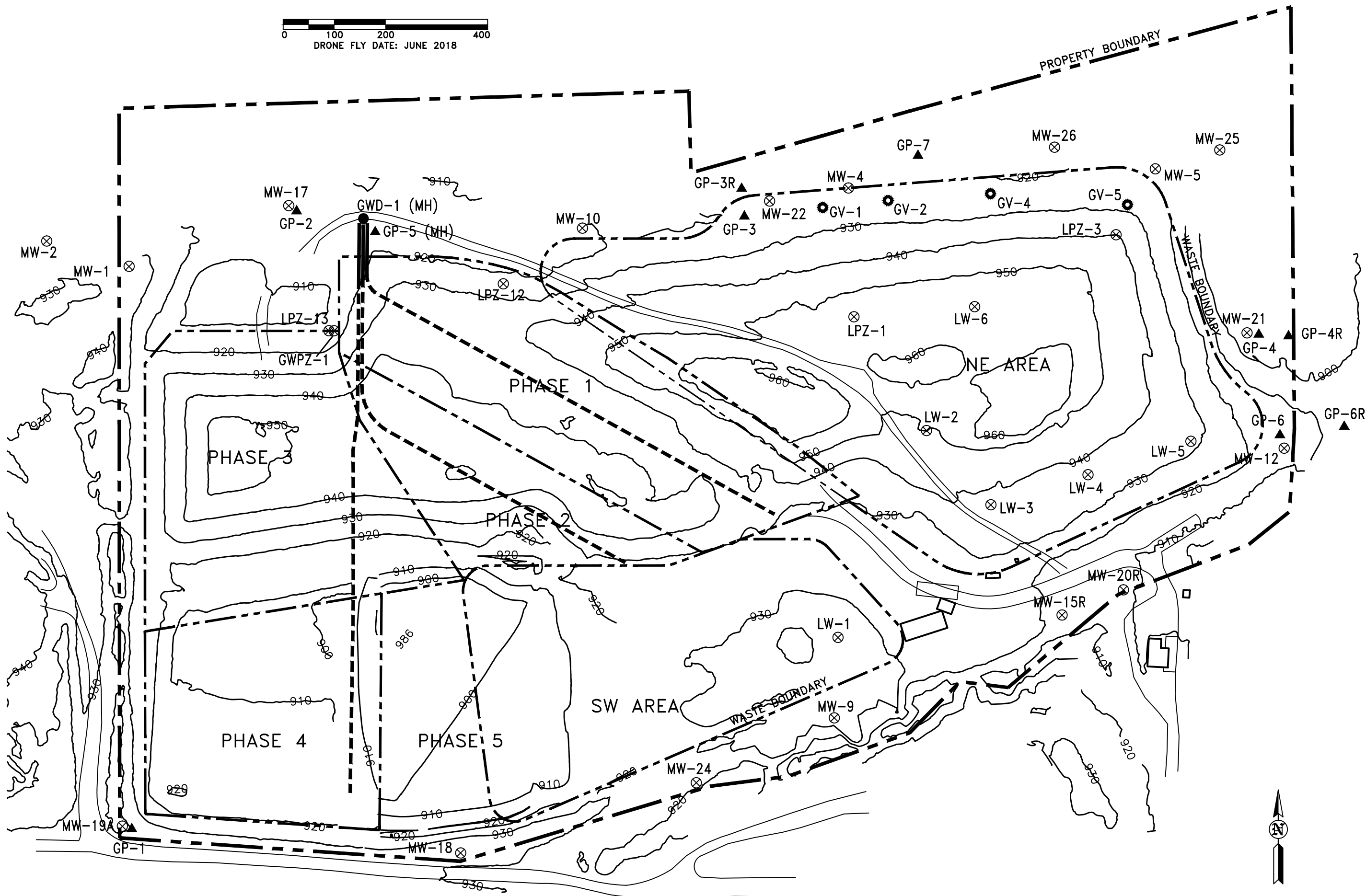
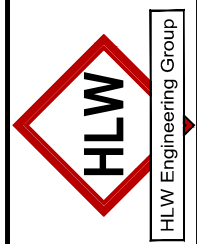


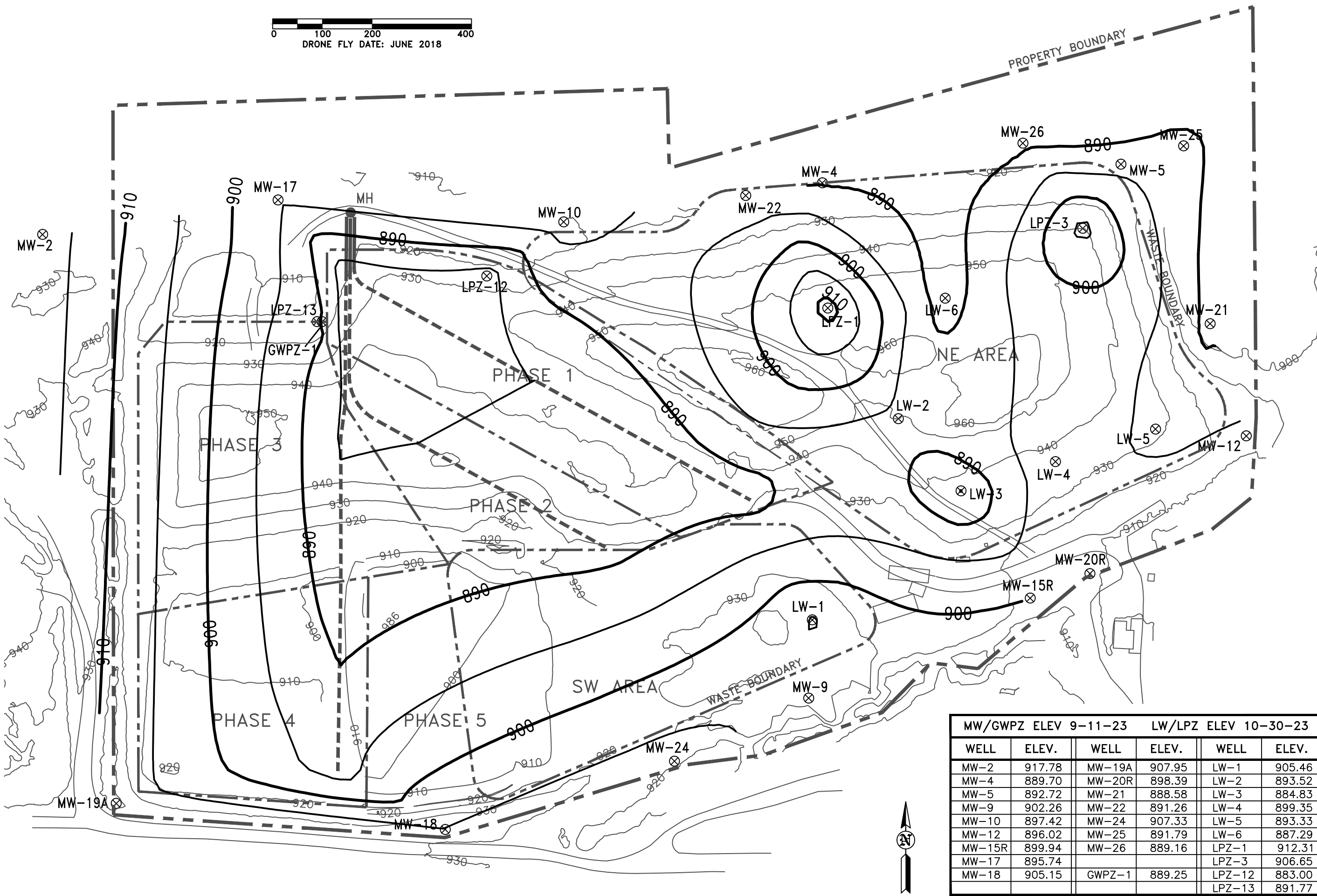
FIGURE: 1

REVISION	NO.	DATE
DRAWN	DRA	PROJECT NO. 6045
		DATE 12-19-23

SITE PLAN
SOUTH DALLAS COUNTY SANITARY LANDFILL
ADEL, IOWA

HLW Engineering Group
 204 West Broad Street, P.O. Box 314
 Story City, Iowa 50248
 Phone: (515) 733-4144
 FAX: (515) 733-4146





MW/GWPZ ELEV 9-11-23		LW/LPZ ELEV 10-30-23			
WELL	ELEV.	WELL	ELEV.	WELL	ELEV.
MW-2	917.78	MW-19A	907.95	LW-1	905.46
MW-4	889.70	MW-20R	898.39	LW-2	893.52
MW-5	892.72	MW-21	888.58	LW-3	884.83
MW-9	902.26	MW-22	891.26	LW-4	899.35
MW-10	897.42	MW-24	907.33	LW-5	893.33
MW-12	896.02	MW-25	891.79	LW-6	887.29
MW-15R	899.94	MW-26	889.16	LPZ-1	912.31
MW-17	895.74			LPZ-3	906.65
MW-18	905.15	GWPZ-1	889.25	LPZ-12	883.00
				LPZ-13	891.77

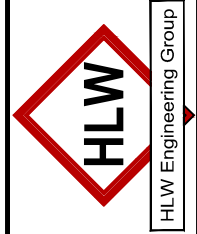
REVISION		NO.		DATE	
DRAWN		DRA		PROJECT NO.	
		6045		DATE	
				12-19-23	

FIGURE: 2

GROUNDWATER CONTOURS

SOUTH DALLAS COUNTY SANITARY LANDFILL
ADEL, IOWA

HLW Engineering Group
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Story City, Iowa 50248
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Tables (in IDNR Format)

Table Index

Table 1 – Monitoring Program Summary

Table 2 – Monitoring Program Implementation Schedule

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

Table 3 – Monitoring Well Maintenance Performance Reevaluation Schedule

Table 4 – Monitoring Well Maintenance Performance Reevaluation Summary

Table 4A – Historic Water Level & Elevation Summary

Table 5 – Background and GWPS Summary

Table 6 – Summary of Detections

Table 7 – Summary of Ongoing and Newly Identified SSI

~~Table 8 – Summary of Ongoing and Newly Identified SSL – *Not Used*~~

Table 9 – Analytical Data Summary

~~Table 10 – Historic SSI and SSL – *Not Used*~~

~~Table 11 – Corrective Action Trend Analysis – *Not Used*~~

Table 12 – Gas Monitoring Summary

Table 1 – Monitoring Program Summary

Table 1
Monitoring Program Summary
Annual Water Quality Report
South Dallas County Sanitary Landfill
Permit No. 25-SDP-01-75P

Monitoring Well	Formation	Current Monitoring Program	Change for next sampling event	Historic - Constituents w/ SSI	Spring 2023 - Constituents w/ SSI	Fall 2023 - Constituents w/ SSI	Historic - Constituents w/ SSL	Spring 2023 - Constituents w/ SSL	Fall 2023 - Constituents w/ SSL	Total # of Samples in each monitoring program since October 16, 2014		
										Detection	Assessment	Corrective Action
MW-2	Glacial Till	Background	NC	None	None	None	None	None	None	17	0	0
MW-9	Glacial Till - silt & sand	Background	NC	None	None	None	None	None	None	19	0	0
MW-17	Sand and shale	Background	NC	None	None	None	None	None	None	19	0	0
MW-18	Glacial Till	Background	NC	None	None	None	None	None	None	19	0	0
MW-19A	Glacial Till	Background	NC	None	None	None	None	None	None	19	0	0
MW-24	Glacial Till	Background	NC	None	None	None	None	None	None	19	0	0
MW-10	Shale	Detection	NC	None	None	None	None	None	None	17	0	0
MW-12	Shale	Detection	NC	None	None	None	None	None	None	19	0	0
MW-15R	Glacial Till	Detection	NC	None	None	None	None	None	None	19	0	0
MW-20R	Glacial Till	Detection	NC	None	None	None	None	None	None	19	0	0
MW-4	Glacial Till and sand	Assessment	NC	1,1-dichloroethane, 1,2-dichloropropane, 1,4-dichlorobenzene, acetone, benzene, bis (2-ethylhexyl)phthalate, chloroethane, cis-1,2-dichloroethylene, dichlorodifluoromethane, vinyl chloride	1,2-dichloropropane, 1,4-dichlorobenzene, benzene, chloroethane	chromium, nickel, 1,2-dichloropropane, 1,4-dichlorobenzene, benzene, chloroethane, cis-1,2-dichloroethylene, vinyl chloride	None	None	None	0	19	0
MW-5	Glacial Till and shale	Assessment	NC	Arsenic, copper, chloroethane	chloroethane	None	None	None	None	0	19	0
MW-21	Glacial Till and shale	Assessment	NC	Barium, chloroethane	barium, chloroethane	None	None	None	None	0	19	0
MW-22	Glacial Till	Assessment	NC	Benzene, chloroethane, vinyl chloride	Benzene, vinyl chloride	None	None	None	None	0	18	0
MW-25	Sand and shale	Step-Out - CAMP	NC	None	None	None	None	None	None	0	0	15
MW-26	Glacial Till	Step-Out - CAMP	NC	None	None	None	None	None	None	0	0	15

Table 2 – Monitoring Program Implementation Schedule

Table 2
Monitoring Program Implementation Schedule
Annual Water Quality Report
South Dallas County Sanitary Landfill
Permit No. 25-SDP-01-75P

Monitoring Well	Monitoring Program	Recent Sampling Dates and Constituents	Upcoming Sampling Dates and Constituents		Full Appendix II Sample Dates	
			March, 2024	September, 2024	Previously Collected	Next Event
MW-2	Background		Appendix I	Appendix I		N/A
MW-9	Background		Appendix I	Appendix I		N/A
MW-17	Background		Appendix I	Appendix I		N/A
MW-18	Background		Appendix I	Appendix I	4/4/2016	N/A
MW-19A	Background		Appendix I	Appendix I		N/A
MW-24	Background		Appendix I	Appendix I	4/4/2016	N/A
MW-10	Detection		Appendix I	Appendix I		N/A
MW-12	Detection	See Table 2A	Appendix I	Appendix I	9/20/2016	N/A
MW-15R	Detection		Appendix I	Appendix I	4/4/2016	N/A
MW-20R	Detection		Appendix I	Appendix I	4/4/2016	N/A
GWD-1	Detection		Appendix I	Appendix I		N/A
MW-4	Assessment		Appendix I	Appendix I	9/20/2016; 9/28/2021	2026
MW-5	Assessment		Appendix I	Appendix I	9/20/2016; 9/18/2019; 3/25/2020	2025
MW-21	Assessment		Appendix I	Appendix I	4/4/2016; 3/8/2021	2026
MW-22	Assessment		Appendix I	Appendix I	4/4/2016; 3/8/2021	2026
MW-25	Step-Out		vinyl chloride + As + Ba	vinyl chloride + As + Ba		N/A
MW-26	Step-Out		vinyl chloride + As + Ba	vinyl chloride + As + Ba		N/A
Duplicate	QA/QC		Appendix I	Appendix I		N/A

Table 2A – Itemized Summary of Hydrologic Monitoring

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

WELL	10/15/2014	4/14/2015	10/1/2015	4/4/2016
MW-2 (b)	Dry	Appendix I	Appendix I	Appendix I
MW-9 (b)	Appendix I	Appendix I	Appendix I	Appendix I
MW-17 (b)	Appendix I	Appendix I	Appendix I	Appendix I
MW-18 (b)	Appendix I	Appendix I	Appendix I	Appendix II
MW-19A (b)	Appendix I	Appendix I	Appendix I	Appendix I
MW-24 (b)	Appendix I	Appendix I	Appendix I	Appendix II
MW-10	Appendix I	Appendix I	Appendix I	Appendix I
MW-12	Appendix I	Appendix I	Appendix I	Appendix I
MW-15R	Appendix I	Appendix I	Appendix I	Appendix II
MW-20R	Appendix I	Appendix I	Appendix I	Appendix II
MW-25				As, Ba, V.C.
MW-26				As, Ba, V.C.
GWD-1	Appendix I	Appendix I	Appendix I	Appendix I
MW-4	Appendix I	Appendix I	Appendix I	Appendix I
MW-5	Appendix I	Appendix I	Appendix I	Appendix I
MW-21	Appendix I	Appendix I	Appendix I	Appendix II
MW-22	Appendix I	Appendix I	Appendix I	Appendix II
Duplicate	Appendix I	Appendix I	Appendix I	Appendix I

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

(R) = Resample
V.C. = vinyl chloride

WELL	6/14/2016	9/20/2016	11/8/2016	4/24/2017	10/9/2017
MW-2 (b)		Dry		Appendix I	Dry
MW-9 (b)		Appendix I		Appendix I	Appendix I
MW-17 (b)		Appendix I		Appendix I	Appendix I
MW-18 (b)		Appendix I	R- acetone	Appendix I	Appendix I
MW-19A (b)		Appendix I		Appendix I	Appendix I
MW-24 (b)		Appendix I		Appendix I	Appendix I
MW-10		Dry		Appendix I	Dry
MW-12		Appendix II	R- Bis	Appendix I	Appendix I
MW-15R		Appendix I		Appendix I	Appendix I
MW-20R		Appendix I		Appendix I	Appendix I
MW-25		As, Ba, V.C.		Appendix I	As, Ba, V.C.
MW-26		As, Ba, V.C.	R - As	Appendix I	As, Ba, V.C.
GWD-1	R- As	Appendix I	R- As	Appendix I	Appendix I
MW-4		Appendix II	R- Bis	Appendix I	Appendix I
MW-5		Appendix II	R- Bis	Appendix I	Appendix I
MW-21		Appendix I		Appendix I	Appendix I
MW-22		Appendix I		Appendix I	Appendix I
Duplicate		Appendix I		Appendix I	Appendix I

(1) Appendix I plus dichlorodifluoromethane
(2) Appendix I plus bis(2ethylhexyl)phthalate
Bis = bis(2-ethylhexyl)phthalate

(R) = Resample
V.C. = vinyl chloride

WELL	3/21/2018	6/11/2018	9/7/2018	4/2/2019	6/5/2019
MW-2 (b)	Dry		Dry	Appendix I	
MW-9 (b)	Appendix I	R - Cu	Appendix I	Appendix I	
MW-17 (b)	Appendix I		Appendix I	Appendix I	
MW-18 (b)	Appendix I		Appendix I	Appendix I	
MW-19A (b)	Appendix I		Appendix I	Appendix I	
MW-24 (b)	Appendix I		Appendix I	Appendix I	
MW-10	Appendix I		Dry	Appendix I	
MW-12	Appendix I		Appendix I	Appendix I	
MW-15R	Appendix I		Appendix I	Appendix I	
MW-20R	Appendix I		Appendix I	Appendix I	
MW-25	As, Ba, V.C.		As, Ba, V.C.	As, Ba, V.C.	
MW-26	As, Ba, V.C.		As, Ba, V.C.	As, Ba, V.C.	
GWD-1	Appendix I		R- As, Ba	Appendix I	Appendix I
MW-4	Appendix I		Appendix I	Appendix I	
MW-5	Appendix I		Appendix I	Appendix I	R - Ni, chloroethane
MW-21	Appendix I		Appendix I	Appendix I	
MW-22	Appendix I		Appendix I	Appendix I	
Duplicate	Appendix I		Appendix I	Appendix I	

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

(R) = Resample
V.C. = vinyl chloride

WELL	9/18/2019	3/25/2020	9/15/2020	12/2/2020	3/8/2021
MW-2 (b)	Dry	Appendix I	Dry		Dry
MW-9 (b)	Appendix I	Appendix I	Appendix I		Appendix I
MW-17 (b)	Appendix I	Appendix I	Appendix I		Appendix I
MW-18 (b)	Appendix I	Appendix I	Appendix I		Appendix I
MW-19A (b)	Appendix I	Appendix I	Appendix I	R – Ni	Appendix I
MW-24 (b)	Appendix I	Appendix I	Appendix I		Appendix I
MW-10	Dry	Appendix I	Dry		Dry
MW-12	Appendix I	Appendix I	Appendix I		Appendix I
MW-15R	Appendix I	Appendix I	Appendix I		Appendix I
MW-20R	Appendix I	Appendix I	Appendix I		Appendix I
MW-25	No access	As, Ba, V.C.	As, Ba, V.C.		As, Ba, V.C.
MW-26	As, Ba, V.C.	As, Ba, V.C.	As, Ba, V.C.		As, Ba, V.C.
GWD-1	Appendix I	Appendix I	Appendix I		Appendix I
MW-4	Appendix I	Appendix I	Appendix I		Appendix I
MW-5	Appendix II	Appendix II	Appendix I		Appendix I
MW-21	Appendix I	Appendix I	Appendix I		Appendix II
MW-22	Appendix I	Appendix I	Appendix I		Appendix II
Duplicate	Appendix I	Appendix I	Appendix I		Appendix I

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

(R) = Resample
V.C. = vinyl chloride

WELL	5/11/2021	9/28/2021	12/3/2021	3/8/2022	8/30/2022
MW-2 (b)		Dry		Dry	Dry
MW-9 (b)		Appendix I		Appendix I	Appendix I
MW-17 (b)		Appendix I		Appendix I	Appendix I
MW-18 (b)		Appendix I		Appendix I	Appendix I
MW-19A (b)		Appendix I		Appendix I	Appendix I
MW-24 (b)	R - acetone	Appendix I		Appendix I	Appendix I
MW-10		Dry		Dry	Dry
MW-12		Appendix I		Appendix I	Appendix I
MW-15R		Appendix I		Appendix I	Appendix I
MW-20R		Appendix I		Appendix I	Appendix I
MW-25		As, Ba, V.C.		As, Ba, V.C.	As, Ba, V.C.
MW-26		As, Ba, V.C.		As, Ba, V.C.	As, Ba, V.C.
GWD-1		Appendix I		Appendix I	Appendix I
MW-4		Appendix II	R-Cu	Appendix I	Appendix I
MW-5		Appendix I		Appendix I	Appendix I
MW-21		Appendix I		Appendix I	Appendix I
MW-22		Dry		Appendix I	Appendix I
Duplicate		Appendix I		Appendix I	Appendix I

WELL	3/7/2023	5/9/2023	6/7/2023	9/11/2023	
MW-2 (b)	Dry			Dry	
MW-9 (b)	Appendix I			Appendix I	
MW-17 (b)	Appendix I			Appendix I	
MW-18 (b)	Appendix I			Appendix I	
MW-19A (b)	Appendix I			Appendix I	
MW-24 (b)	Appendix I			Appendix I	
MW-10	Dry			Dry	
MW-12	Appendix I			Appendix I	
MW-15R	Appendix I			Appendix I	
MW-20R	Appendix I			Appendix I	
MW-25	As, Ba, V.C.			As, Ba, V.C.	
MW-26	As, Ba, V.C.			As, Ba, V.C.	
GWD-1	Appendix I	V.C.	V.C.	<i>Connected to LCS</i>	
MW-4	Appendix I			Appendix I	
MW-5	Appendix I			Appendix I	
MW-21	Appendix I			Appendix I	
MW-22	Appendix I			Dry	
Duplicate	Appendix I			Appendix I	

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

(R) = Resample
V.C. = vinyl chloride

Table 3 – Monitoring Well Maintenance Performance Reevaluation
Schedule

Table 3
Monitoring Well Maintenance and Performance Reevaluation Schedule
Annual Water Quality Report
South Dallas County Sanitary Landfill
Permit No. 25-SDP-01-75P

Compliance with:	Monitoring Calendar Years									
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
567 IAC 113.10(2)"f"(1) high and low water levels (bi-annual)	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 (bi-annual)		X		X		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 (bi-annual)		X		X		P		P		P
Waste separation from ground water 113.6(2)"l"	X	X	X	X	X	P	P	P	P	P

X = completed
P = Planned
N/A = Not Applicable

Table 4 – Monitoring Well Maintenance Performance Reevaluation
Summary

Table 4
Monitoring Well Maintenance and Performance Summary
Annual Water Quality Report
South Dallas County Sanitary Landfill
Permit No. 25-SDP-01-75P

Well	Top of casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)	Hydraulic Cond. (cm/sec)/date	Most Recent Recharge Rate	
					3/7/2023	9/11/2023			3/8/2022	Change
MW-2	937.53	927.78	19.75	Groundwater Level (ft)	19.75	19.75	0	0.000003 2003	dry	None percieved
				Groundwater Elevation (Ft MSL)	917.78	917.78				
				Measured Well Depth (ft)	19.75	19.75				
				Submerged (+) or Exposed screen (-)	-10	-10				
MW-4	924.35	897.15	37.2	Groundwater Level (ft)	32.8	34.65	0	0.00005 2003	Full recovery in 3 hour	None percieved
				Groundwater Elevation (Ft MSL)	891.55	889.7				
				Measured Well Depth (ft)	37.2	37.2				
				Submerged (+) or Exposed screen (-)	-5.6	-7.45				
MW-5	923.97	897.42	36.55	Groundwater Level (ft)	29.65	31.25	0	0.00001 1998	Full recovery in > 24 hour	None percieved
				Groundwater Elevation (Ft MSL)	894.32	892.72				
				Measured Well Depth (ft)	36.55	36.55				
				Submerged (+) or Exposed screen (-)	-3.1	-4.7				
MW-9	934.91	902.58	42.33	Groundwater Level (ft)	31.95	32.65	0	0.0003 2003	No Draw Down	None percieved
				Groundwater Elevation (Ft MSL)	902.96	902.26				
				Measured Well Depth (ft)	42.33	42.33				
				Submerged (+) or Exposed screen (-)	0.38	-0.32				
MW-10	917.02	906.52	20.5	Groundwater Level (ft)	19.59	19.6	0	0.000001 1998	Dry	None percieved
				Groundwater Elevation (Ft MSL)	897.43	897.42				
				Measured Well Depth (ft)	20.5	20.5				
				Submerged (+) or Exposed screen (-)	-9.09	-9.1				
MW-12	908.7	895.6	23.1	Groundwater Level (ft)	10.12	12.68	0	0.000002 2003	Full recovery in 24 hour	None percieved
				Groundwater Elevation (Ft MSL)	898.58	896.02				
				Measured Well Depth (ft)	23.1	23.1				
				Submerged (+) or Exposed screen (-)	2.98	0.42				
MW-15R	919.38	899.03	30.35	Groundwater Level (ft)	17.16	19.44	-0.4	0.00008 2003	Full recovery in 2 hour	None percieved
				Groundwater Elevation (Ft MSL)	902.22	899.94				
				Measured Well Depth (ft)	30.75	30.75				
				Submerged (+) or Exposed screen (-)	3.19	0.91				
MW-17	916.22	903.17	23.05	Groundwater Level (ft)	18.52	20.48	0	pending	Full recovery in 4 hour	None percieved
				Groundwater Elevation (Ft MSL)	897.7	895.74				
				Measured Well Depth (ft)	23.05	23.05				
				Submerged (+) or Exposed screen (-)	-5.47	-7.43				
MW-18	940.87	911.17	39.7	Groundwater Level (ft)	34.85	35.72	0	pending	Full recovery in 24 hour	None percieved
				Groundwater Elevation (Ft MSL)	906.02	905.15				
				Measured Well Depth (ft)	39.7	39.7				
				Submerged (+) or Exposed screen (-)	-5.15	-6.02				
MW-19A	943.16	895.86	57.3	Groundwater Level (ft)	36.06	35.21	0	pending	Full recovery in > 24 hour	None percieved
				Groundwater Elevation (Ft MSL)	907.1	907.95				
				Measured Well Depth (ft)	57.3	57.3				
				Submerged (+) or Exposed screen (-)	11.24	12.09				
MW-20R	913.4	901.75	21.65	Groundwater Level (ft)	13.1	15.01	0	pending	No Draw Down	None percieved
				Groundwater Elevation (Ft MSL)	900.3	898.39				
				Measured Well Depth (ft)	21.65	21.65				
				Submerged (+) or Exposed screen (-)	-1.45	-3.36				
MW-21	896.5	885	21.5	Groundwater Level (ft)	2.97	7.92	0	pending	Full recovery in 3 hour	None percieved
				Groundwater Elevation (Ft MSL)	893.53	888.58				
				Measured Well Depth (ft)	21.5	21.5				
				Submerged (+) or Exposed screen (-)	8.53	3.58				
MW-22	925.68	900.23	35.45	Groundwater Level (ft)	32.29	34.42	0	pending	Full recovery in 3 hour	None percieved
				Groundwater Elevation (Ft MSL)	893.39	891.26				
				Measured Well Depth (ft)	35.45	35.45				
				Submerged (+) or Exposed screen (-)	-6.84	-8.97				
MW-24	923.34	906.59	26.75	Groundwater Level (ft)	14.22	16.01	0	pending	No Draw Down	None percieved
				Groundwater Elevation (Ft MSL)	909.12	907.33				
				Measured Well Depth (ft)	26.75	26.75				
				Submerged (+) or Exposed screen (-)	2.53	0.74				
MW-25	902.9	891.48	21.42	Groundwater Level (ft)	10.81	11.11	0	pending	Full recovery in 3 hour	None percieved
				Groundwater Elevation (Ft MSL)	892.09	891.79				
				Measured Well Depth (ft)	21.42	21.42				
				Submerged (+) or Exposed screen (-)	0.61	0.31				
MW-26	908.83	893.63	25.2	Groundwater Level (ft)	17.73	19.67	0	pending	No Draw Down	None percieved
				Groundwater Elevation (Ft MSL)	891.1	889.16				
				Measured Well Depth (ft)	25.2	25.2				
				Submerged (+) or Exposed screen (-)	-2.53	-4.47				

Table 4A – Historic Water Level & Elevation Summary

Table 4A--- Water levels in monitoring locations, South Dallas County Sanitary Landfill. TOC, top of casing except GWD-1.

Monitor Well/ TOC Elev. (ft)	Date											
	4/25/1997	9/26/1997	4/26/1998	9/15/1998	3/30/1999	10/7/1999	4/12/2000	9/26/2000	4/5/2001	8/28/2001	3/29/2002	9/9/2002
MW-2 937.53	6.88 930.65	15.27 922.26	5.49 932.04	8.17 929.36	7.17 930.36	13.62 923.91	18.85 918.68	18.13 919.40	8.71 928.82	13.93 923.60	10.50 927.03	17.07 920.46
MW-4 924.35	31.42 892.93	32.98 891.37	31.12 893.23	31.80 892.55	31.51 892.84	32.11 892.24	31.94 892.41	34.19 890.16	31.42 892.93	33.86 890.49	31.86 892.49	34.02 890.33
MW-5 923.97	31.34 892.63	32.41 891.56	30.52 893.45	31.28 892.69	31.29 892.68	31.61 892.36	31.99 891.98	30.3 893.67	31.58 892.39	32.94 891.03	32.12 891.85	33.59 890.38
MW-9 934.91	33.41 901.50	34.63 900.28	32.98 901.93	33.29 901.62	32.73 902.18	33.1 901.81	32.98 901.93	35.19 899.72	32.43 902.48	33.86 901.05	32.60 902.31	37.70 897.21
MW-10 917.02	8.70 908.32	19.18 897.84	6.90 910.12	8.30 908.72	8.44 908.58	17.64 899.38	19.58 897.44	19.60 897.42	9.99 907.03	19.43 897.59	16.35 900.67	19.40 897.62
MW-12 908.70	11.97 896.73	13.13 895.57	11.12 897.58	12.58 896.12	11.98 896.72	12.64 896.06	12.73 895.97	13.99 894.71	10.03 898.67	13.01 895.69	12.60 896.10	12.83 895.87
MW-15R 919.38												
MW-16 921.46	31.56 889.90	33.24 888.22	31.28 890.18	31.95 889.51	31.63 889.83	32.20 889.26	32.01 889.45	34.34 887.12	31.59 889.87	34.05 887.41	32.08 889.38	34.14 887.32
MW-17 916.22	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	17.59 898.63	19.35 896.87	16.07 900.15	19.09 897.13	17.33 898.89	19.34 896.88
MW-18 940.87												
MW-19A 943.16												
MW-20R 913.40												
MW-21 896.50												
MW-22 925.68												
MW-23 913.87												
MW-24 923.34												
	4/25/1997	9/26/1997	4/26/1998	9/15/1998	3/30/1999	10/7/1999	4/12/2000	9/26/2000	4/5/2001	8/28/2001	3/29/2002	9/9/2002

Table 4A--- Water levels in monitoring locations, South Dallas County Sanitary Landfill. TOC, top of casing except GWD-1.

Monitor Well/ TOC Elev. (ft)	Date											
	10/2/2008	3/4/2009	9/17/2009	4/5/2010	10/8/2010	4/13/2011	9/21/2011	4/9/2012	9/5/2012	4/26/2013	9/26/2013	
MW-1 934.07				38.69 895.38	37.42 896.65				46.57 887.50		43.91 890.16	MW-1
MW-2 937.53					13.39 924.14	11.15 926.38	19.17 918.36	19.72 917.81	19.58 917.95	19.59 917.94	19.62 917.91	MW-2
MW-4 924.35	31.71 892.64	31.68 892.67	32.89 891.46	31.32 893.03	31.42 892.93	31.64 892.71	32.02 892.33	31.71 892.64	34.23 890.12	31.47 892.88	36.57 887.78	MW-4
MW-5 923.97	31.60 892.37	31.13 892.84	32.14 891.83	30.07 893.90	30.29 893.68	31.21 892.76	32.12 891.85	31.89 892.08	33.70 890.27	32.87 891.10	33.98 889.99	MW-5
MW-9 934.91	30.29 904.62	30.16 904.75	31.48 903.43	30.15 904.76	30.32 904.59	30.41 904.50	31.49 903.42	30.72 904.19	33.62 901.29	30.31 904.60	32.03 902.88	MW-9
MW-10 917.02	19.58 897.44	11.75 905.27	20.10 896.92	9.50 907.52	14.11 902.91	7.30 909.72	19.41 897.61	10.28 906.74	19.58 897.44	11.02 906.00	19.39 897.63	MW-10
MW-12 908.70	11.99 896.71	12.74 895.96	12.31 896.39	11.98 896.72	11.68 897.02	12.18 896.52	12.92 895.78	12.13 896.57	13.60 895.10	9.28 899.42	12.51 896.19	MW-12
MW-15R 919.38				17.37 902.01	17.75 901.63	17.94 901.44	18.64 900.74	18.08 901.30	20.14 899.24	17.50 901.88	19.43 899.95	MW-15R
MW-16 921.46	30.99 890.47	31.88 889.58	32.96 888.50	31.57 889.89	31.84 889.62	32.07 889.39	32.39 889.07	32.03 889.43	34.39 887.07	31.71 889.75	33.71 887.75	MW-16
MW-17 916.22	16.81 899.41	17.70 898.52	19.00 897.22	17.70 898.52	18.05 898.17	17.87 898.35	18.68 897.54	18.50 897.72	19.93 896.29	17.93 898.29	19.39 896.83	MW-17
MW-18 940.87	35.13 905.74	33.50 907.37	31.85 909.02	31.27 909.60	31.02 909.85	30.71 910.16	32.40 908.47	32.20 908.67	33.49 907.38	32.75 908.12	34.02 906.85	MW-18
MW-19A 943.16	46.20 896.96	38.99 904.17	33.69 909.47	31.42 911.74	30.41 912.75	30.70 912.46	31.69 911.47	33.42 909.74	35.49 907.67	36.18 906.98	36.97 906.19	MW-19A
MW-20R 913.40				13.01 900.39	13.46 899.94	13.65 899.75	14.48 898.92	13.75 899.65	16.33 897.07	13.24 900.16	13.36 900.04	MW-20R
MW-21 896.50				2.75 893.75	3.08 893.42	2.20 894.30	6.60 889.90	2.94 893.56	8.76 887.74	2.35 894.15	8.83 887.67	MW-21
MW-22 925.68				31.29 894.39	31.34 894.34	31.41 894.27	32.15 893.53	31.53 894.15	34.00 891.68	30.35 895.33	33.47 892.21	MW-22
MW-23 913.87					12.74 901.13	15.05 898.82	15.24 898.63	16.32 897.55	14.80 899.07	16.61 897.26	14.22 899.65	MW-23
MW-24 923.34				15.49 907.85	14.46 908.88	14.67 908.67	15.37 907.97	14.29 909.05	16.94 906.40	14.08 909.26	14.83 908.51	MW-24
GWD-1 889.25 Bottom elev.								0.00 889.25	0.00 889.25	0.00 889.25	0.00 889.25	GWD-1
	10/2/2008	3/4/2009	9/17/2009	4/5/2010	10/8/2010	4/13/2011	9/21/2011	4/9/2012	9/5/2012	4/26/2013	9/26/2013	

Table 4A--- Water levels in monitoring locations, South Dallas County Sanitary Landfill. TOC, top of casing except GWD-1.

Monitor Well/ TOC Elev. (ft)	Date												Mean/ Std. Dev.	
	4/10/2014	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018	4/2/2019	9/18/2019		
MW-1 934.07	934.07	40.52 893.55	934.07	39.40 894.67	39.25 894.82	41.14 892.93	934.07	934.07					40.86 2.69	MW-1
MW-2 937.53	19.60 917.93	19.69 917.84	15.02 922.51	13.61 923.92	8.50 929.03	19.67 917.86	8.20 929.33	19.65 917.88	19.65 917.88	19.55 917.98	12.60 924.93	19.00 918.53	14.34 5.04	MW-2
MW-4 924.35	31.95 892.40	30.91 893.44	31.91 892.44	31.91 892.44	32.16 892.19	32.03 892.32	31.75 892.60	32.21 892.14	31.79 892.56	32.02 892.33	32.20 892.15	32.68 891.67	32.16 1.13	MW-4
MW-5 923.97	33.65 890.32	31.27 892.70	31.64 892.33	30.86 893.11	30.70 893.27	31.54 892.43	30.50 893.47	32.33 891.64	31.73 892.24	30.70 893.27	29.11 894.86	29.50 894.47	31.63 1.12	MW-5
MW-9 934.91	30.67 904.24	29.67 905.24	30.26 904.65	31.64 903.27	30.95 903.96	31.06 903.85	30.50 904.41	31.21 903.70	29.90 905.01	30.91 904.00	31.19 903.72	31.80 903.11	32.19 1.75	MW-9
MW-10 917.02	19.45 897.57	9.61 907.41	8.68 908.34	7.63 909.39	7.62 909.40	18.90 898.12	7.72 909.30	19.50 897.52	9.10 907.92	19.55 897.47	9.57 907.45	19.40 897.62	14.44 5.00	MW-10
MW-12 908.70	12.89 895.81	7.55 901.15	11.76 896.94	9.94 898.76	11.81 896.89	9.27 899.43	9.90 898.80	10.00 898.70	10.21 898.49	7.70 901.00	10.83 897.87	11.22 897.48	11.70 1.48	MW-12
MW-15R 919.38	18.05 901.33	16.62 902.76	17.45 901.93	17.85 901.53	18.28 901.10	18.32 901.06	17.80 901.58	18.50 900.88	18.04 901.34	17.90 901.48	17.55 901.83	18.40 900.98	18.08 0.75	MW-15R
MW-16 921.46	32.23 889.23	31.19 890.27	32.31 889.15	32.18 889.28	32.42 889.04	32.33 889.13	31.82 889.64	32.58 888.88	32.18 889.28	32.63 888.83	29.70 891.76	30.51 890.95	32.16 1.10	MW-16
MW-17 916.22	18.52 897.70	17.05 899.17	18.05 898.17	18.15 898.07	18.50 897.72	18.38 897.84	18.00 898.22	18.50 897.72	18.36 897.86	17.97 898.25	18.43 897.79	18.76 897.46	18.07 0.88	MW-17
MW-18 940.87	33.54 907.33	34.91 905.96	34.59 906.28	34.59 906.28	32.96 907.91	33.56 907.31	32.32 908.55	32.12 908.75	32.08 908.79	33.67 907.20	32.23 908.64	31.73 909.14	32.90 1.25	MW-18
MW-19A 943.16	37.32 905.84	38.31 904.85	35.21 907.95	32.20 910.96	30.21 912.95	31.91 911.25	32.35 910.81	32.00 911.16	34.80 908.36	33.16 910.00	32.83 910.33	31.38 911.78	34.39 3.49	MW-19A
MW-20R 913.40	13.86 899.54	11.92 901.48	13.13 900.27	13.14 900.26	13.45 899.95	13.59 899.81	12.45 900.95	13.69 899.71	13.27 900.13	12.95 900.45	13.09 900.31	13.47 899.93	13.46 0.86	MW-20R
MW-21 896.50	3.91 892.59	1.13 895.37	2.10 894.40	2.06 894.44	2.46 894.04	3.49 893.01	1.90 894.60	3.46 893.04	1.95 894.55	2.30 894.20	1.55 894.95	3.21 893.29	3.35 2.18	MW-21
MW-22 925.68	31.92 893.76	30.58 895.10	31.99 893.69	32.10 893.58	32.31 893.37	32.24 893.44	31.02 894.66	32.15 893.53	31.67 894.01	31.33 894.35	31.90 893.78	32.43 893.25	31.86 0.86	MW-22
MW-23 913.87	NA	13.92 899.95	16.60 897.27	NA	NA	NA	abandoned						15.06 1.33	MW-23
MW-24 923.34	13.96 909.38	13.19 910.15	14.04 909.30	13.50 909.84	13.40 909.94	13.56 909.78	13.17 910.17	14.02 909.32	13.45 909.89	13.65 909.69	13.95 909.39	15.41 907.93	14.27 0.95	MW-24
GWD-1 889.25 Bottom elev.	0.00 889.25	0.00 889.25	0.00 889.25	0.00 889.25	0.00 889.25	0.00 889.25	0.00 889.25	0.00 889.25	0.00 889.25	0.00 889.25	0.00 889.25	0.00 889.25	0.00 0.00	GWD-1
	4/10/2014	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018	4/2/2019	9/18/2019		

GWD-1 base ele 889.25

Table 4A--- Water levels in monitoring locations, South Dallas County Sanitary Landfill. TOC, top of casing .

Monitor Well/ TOC Elev. (ft)	Screened Interval		Date									Mean/ Std. Dev.	
	Depth (ft)	Elev. (ft)	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022	8/30/2022	3/7/2023	9/11/2023			
MW-2 937.53	9.6 19.6	927.93 917.93	7.66 929.87	19.75 917.78	NA	19.75 917.78	19.75 917.78	19.75 917.78	19.75 917.78	19.75 917.78	14.41 5.10	MW-2	
MW-4 924.35	27.0 37.0	897.31 887.31	32.34 892.01	33.26 891.09	32.67 891.68	34.50 889.85	32.75 891.60	33.45 890.90	37.2 887.15	34.65 889.70	32.23 1.14	MW-4	
MW-5 923.97	26.9 36.9	897.10 887.10	29.05 894.92	29.88 894.09	29.55 894.42	31.48 892.49	30.95 893.02	30.13 893.84	36.55 887.42	31.25 892.72	31.52 1.19	MW-5	
MW-9 934.91	32.2 42.2	902.71 892.71	31.14 903.77	32.15 902.76	31.40 903.51	31.77 903.14	31.15 903.76	31.62 903.29	42.33 892.58	32.65 902.26	32.16 1.70	MW-9	
MW-10 917.02	10.3 20.3	906.75 896.75	9.11 907.91	19.55 897.47	19.68 897.34	19.80 897.22	19.38 897.64	19.5 897.52	20.50 896.52	19.60 897.42	14.62 5.02	MW-10	
MW-12 908.70	13.2 23.2	895.50 885.50	9.22 899.48	11.00 897.70	10.06 898.64	12.47 896.23	12 896.70	11.75 896.95	23.10 885.60	12.68 896.02	11.63 1.48	MW-12	
MW-15R 919.38	20.0 30.0	899.38 889.38	17.74 901.64	19.13 900.25	17.81 901.57	18.19 901.19	16.95 902.43	18.26 901.12	30.75 888.63	19.44 899.94	18.10 0.72	MW-15R	
MW-17 916.22	14.32 24.32	901.90 891.90	18.06 898.16	18.85 897.37	18.47 897.75	20.30 895.92	18.61 897.61	19.08 897.14	23.05 893.17	20.48 895.74	18.14 0.91	MW-17	
MW-18 940.87	30.87 40.87	910.00 900.00	32.23 908.64	33.57 907.30	32.36 908.51	33.12 907.75	33.32 907.55	36.55 904.32	39.70 901.17	35.72 905.15	32.78 1.27	MW-18	
MW-19A 943.16	46.5 56.5	896.66 886.66	30.79 912.37	31.32 911.84	33.57 909.59	33.19 909.97	34.9 908.26	35.84 907.32	57.30 885.86	35.21 907.95	34.10 3.36	MW-19A	
MW-20R 913.40	11.50 21.50	901.90 891.90	12.92 900.48	14.17 899.23	13.31 900.09	13.90 899.50	12.78 900.62	13.92 899.48	21.65 891.75	15.01 898.39	13.48 0.79	MW-20R	
MW-21 896.50	11.18 21.18	885.32 875.32	1.00 895.50	5.40 891.10	1.47 895.03	7.31 889.19	2.77 893.73	6.38 890.12	21.50 875.00	7.92 888.58	3.42 2.23	MW-21	
MW-22 925.68	25.28 35.28	900.40 890.40	31.55 894.13	33.14 892.54	32.28 893.40	34.28 891.40	32.55 893.13	33.23 892.45	35.45 890.23	34.42 891.26	32.01 0.94	MW-22	
MW-24 923.34	16.70 26.70	906.64 896.64	13.78 909.56	15.12 908.22	14.41 908.93	15.00 908.34	13.98 909.36	14.71 908.63	26.75 896.59	16.01 907.33	13.75 3.00	MW-24	
MW-25 902.9	12.00 22.00	890.90 880.90	9.22 893.68	10.08 892.82	10.28 892.62	10.98 891.92	10.53 892.37	10.64 892.26	21.42 881.48	11.11 891.79	11.78 3.94	MW-25	
MW-26 908.83	15.50 25.50	893.33 883.33	17.37 891.46	18.43 890.40	17.86 890.97	19.57 889.26	17.9 890.93	18.51 890.32	25.2 883.63	19.67 889.16	18.31 2.51	MW-26	
GWD-1 889.25 Bottom elev.			0.00 889.25	0.00 889.25	0.00 889.25	0.00 889.25	0.00 889.25	0.00 889.25	0.00 889.25	0.00 889.25	0.00 0.00	GWD-1	

3/25/2020 9/15/2020 3/8/2021 9/28/2021 3/8/2022 8/30/2022 3/7/2023 9/11/2023

MW-23 abandoned 2017
MW-16 abandoned 2021

Table 5 – Background and GWPS Summary

Table 5
Background and GWPS Summary
Annual Water Quality Report
South Dallas County Sanitary Landfill
Permit No. 25-SDP-01-75P

Interwell Background Wells (MW-2, MW-9, MW-17, MW-18, MW-19A, MW-24)

Inorganics - Appendix I										
Constituent	Units	Model Type	Samples - N	Detections	Mean	SD	Prediction Limit	Confidence	GWPS	Source
Antimony (Sb)	µg/l	nonparametric	101	0			2.0000	0.99	6	SS
Arsenic (As)	µg/l	nonparametric	100	46			167.0000	0.99	167	Site
Barium (Ba)	µg/l	normal	101	101	431.8099	367.7854	1305.6261		1305.6	Site
Beryllium (Be)	µg/l	nonparametric	101	0			4.0000	0.99	4	SS
Cadmium (Cd)	µg/l	nonparametric	99	16			2.4000	0.99	5	SS
Chromium (Cr)	µg/l	nonparametric	99	2			11.6000	0.99	100	SS
Cobalt (Co)	µg/l	lognormal	96	78	1.1707	1.0406	38.3120		38.312	Site
Copper (Cu)	µg/l	nonparametric	95	12			10.0000	0.99	1300	SS
Lead (Pb)	µg/l	nonparametric	97	2			6.8000	0.99	15	SS
Nickel (Ni)	µg/l	normal	97	75	8.1258	5.9767	22.3381		100	SS
Selenium (Se)	µg/l	nonparametric	100	0			4.0000	0.99	50	SS
Silver (Ag)	µg/l	nonparametric	101	0			4.0000	0.99	100	SS
Thallium (Tl)	µg/l	nonparametric	101	2			2.3000	0.99	2.3	SS
Vanadium (V)	µg/l	nonparametric	100	1			31.6000	0.99	35	SS
Zinc (Zn)	µg/l	nonparametric	100	23			267.0000	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	101	0	<1	<1	<1	<1	various	SS

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

Table 6 – Summary of Detections

Table 6
Summary of Well/Detected Constituent Pairs that Exceed the Prediction Limit
Annual Water Quality Report
South Dallas County Sanitary Landfill
Permit No. 25-SDP-01-75P

Well	Constituent	Date	Most recent result (ug/L)	Background Standard (ug/L)	Monitoring Program
MW-4	chromium	9/11/2023	33.9	11.6	Assessment Monitoring Well
MW-4	nickel	9/11/2023	52.8	22.3381	Assessment Monitoring Well
MW-4	1,2-dichloropropane	3/7/2023	1.1	1.0	Assessment Monitoring Well
MW-4	1,2-dichloropropane	9/11/2023	1.0	1.0	Assessment Monitoring Well
MW-4	1,4-dichlorobenzene	3/7/2023	5.70	1.0	Assessment Monitoring Well
MW-4	1,4-dichlorobenzene	9/11/2023	7.40	1.0	Assessment Monitoring Well
MW-4	benzene	3/7/2023	1.50	1.0	Assessment Monitoring Well
MW-4	benzene	9/11/2023	1.70	1.0	Assessment Monitoring Well
MW-4	chloroethane	3/7/2023	1.40	1.0	Assessment Monitoring Well
MW-4	chloroethane	9/11/2023	2.00	1.0	Assessment Monitoring Well
MW-4	cis-1,2-dichloroethylene	9/11/2023	2.70	1.0	Assessment Monitoring Well
MW-4	vinyl chloride	9/11/2023	4.20	1.0	Assessment Monitoring Well
MW-5	chloroethane	3/7/2023	3.10	1.0	Assessment Monitoring Well
MW-21	barium	3/7/2023	1420.00	1322.72	Assessment Monitoring Well
MW-21	chloroethane	3/7/2023	1.40	1.0	Assessment Monitoring Well
MW-22	benzene	3/7/2023	2.00	1.0	Assessment Monitoring Well
MW-22	vinyl chloride	3/7/2023	1.30	1.0	Assessment Monitoring Well
GWD-1*	vinyl chloride	3/7/2023	1.30	1.0	Detection Monitoring Point

* = connected to the leachate collection system in 2023(Doc #107672 & #107884)

Table 7 – Summary of Ongoing and Newly Identified SSI

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
South Dallas County Sanitary Landfill
Permit No. 25-SDP-01-75P

KEY:	SSI	SSL LCL>GWPS
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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)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI		Resamples Due	5th Background Sample
							Initial Exceedance			
MW-4	chromium	10/16/2014	<8	11.6	---	100	not verified	NA	10/16/2014	
MW-4	chromium	4/4/2015	<8	11.6	---	100	not verified	NA	10/16/2014	
MW-4	chromium	10/1/2015	<8	11.6	---	100	not verified	NA	10/16/2014	
MW-4	chromium	4/4/2016	<8	11.6	4.000	100	not verified	NA	10/16/2014	
MW-4	chromium	9/20/2016	<8	11.6	4.000	100	not verified	NA	10/16/2014	
MW-4	chromium	4/24/2017	<8	11.6	4.000	100	not verified	NA	10/16/2014	
MW-4	chromium	10/9/2017	<8	11.6	4.000	100	not verified	NA	10/16/2014	
MW-4	chromium	3/21/2018	<8	11.6	4.000	100	not verified	NA	10/16/2014	
MW-4	chromium	9/7/2018	<8	11.6	4.000	100	not verified	NA	10/16/2014	
MW-4	chromium	4/2/2019	<8	11.6	4.000	100	not verified	NA	10/16/2014	
MW-4	chromium	9/18/2019	<8	11.6	4.000	100	not verified	NA	10/16/2014	
MW-4	chromium	3/25/2020	<8	11.6	4.000	100	not verified	NA	10/16/2014	
MW-4	chromium	9/15/2020	<8	11.6	4.000	100	not verified	NA	10/16/2014	
MW-4	chromium	3/8/2021	<8	11.6	4.000	100	not verified	NA	10/16/2014	
MW-4	chromium	9/28/2021	<8	11.6	4.000	100	not verified	NA	10/16/2014	
MW-4	chromium	3/8/2022	<8	11.6	4.000	100	not verified	NA	10/16/2014	
MW-4	chromium	8/30/2022	<8	11.6	4.000	100	not verified	NA	10/16/2014	
MW-4	chromium	3/7/2023	<8	11.6	4.000	100	not verified	NA	10/16/2014	
MW-4	chromium	9/11/2023	33.9	11.6	0.000	100	not verified	NA	10/16/2014	
MW-4	nickel	10/16/2014	11.3	67.5410	---	100	not verified	NA	10/16/2014	
MW-4	nickel	4/4/2015	7.3	67.5410	---	100	not verified	NA	10/16/2014	
MW-4	nickel	10/1/2015	<4	67.5410	---	100	not verified	NA	10/16/2014	
MW-4	nickel	4/4/2016	7.5	67.5410	2.000	100	not verified	NA	10/16/2014	
MW-4	nickel	9/20/2016	<4	67.5410	2.000	100	not verified	NA	10/16/2014	
MW-4	nickel	4/24/2017	<4	67.5410	2.000	100	not verified	NA	10/16/2014	
MW-4	nickel	10/9/2017	<4	67.5410	2.000	100	not verified	NA	10/16/2014	
MW-4	nickel	3/21/2018	<4	67.5410	2.000	100	not verified	NA	10/16/2014	
MW-4	nickel	9/7/2018	<4	67.5410	2.000	100	not verified	NA	10/16/2014	
MW-4	nickel	4/2/2019	<4	67.5410	2.000	100	not verified	NA	10/16/2014	
MW-4	nickel	9/18/2019	<4	67.5410	2.000	100	not verified	NA	10/16/2014	
MW-4	nickel	3/25/2020	<4	67.5410	2.000	100	not verified	NA	10/16/2014	
MW-4	nickel	9/15/2020	<4	67.5410	2.000	100	not verified	NA	10/16/2014	
MW-4	nickel	3/8/2021	<4	67.5410	2.000	100	not verified	NA	10/16/2014	
MW-4	nickel	9/28/2021	26.4	67.5410	0.000	100	not verified	NA	10/16/2014	
MW-4	nickel	12/3/2021	5.2	67.5410	0.000	100	not verified	NA	10/16/2014	
MW-4	nickel	3/8/2022	4.5	67.5410	0.000	100	not verified	NA	10/16/2014	
MW-4	nickel	8/30/2022	4.6	67.5410	0.804	100	not verified	NA	10/16/2014	
MW-4	nickel	3/7/2023	<4	67.5410	2.408	100	not verified	NA	10/16/2014	
MW-4	nickel	9/11/2023	52.8	22.3381	0.000	100	not verified	NA	10/16/2014	
MW-4	1,1-dichloroethane	10/16/2014	<1.0	1.0	---	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	4/4/2015	<1.0	1.0	---	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	10/1/2015	<1.0	1.0	---	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	4/4/2016	1.0	1.0	0.408	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	9/20/2016	<1.0	1.0	0.408	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	4/24/2017	1.7	1.0	0.433	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	10/9/2017	2.6	1.0	0.661	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	3/21/2018	2.6	1.0	0.988	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	9/7/2018	<1.0	1.0	0.988	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	4/2/2019	<1.0	1.0	0.500	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	9/18/2019	<1.0	1.0	0.116	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	3/25/2020	<1.0	1.0	0.500	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	9/15/2020	1.9	1.0	0.244	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	3/8/2021	<1.0	1.0	0.244	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	9/28/2021	1.1	1.0	0.426	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	3/8/2022	<1.0	1.0	0.220	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	8/30/2022	<1.0	1.0	0.297	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	3/7/2023	<1.0	1.0	0.297	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,1-dichloroethane	9/11/2023	<1.0	1.0	0.500	140.0	4/4/2016	NA	10/16/2014	
MW-4	1,2-dichloropropane	10/16/2014	1.2	1.0	---	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	4/4/2015	<1.0	1.0	---	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	10/1/2015	<1.0	1.0	---	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	4/4/2016	<1.0	1.0	0.372	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	9/20/2016	<1.0	1.0	0.500	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	4/24/2017	<1.0	1.0	0.500	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	10/9/2017	<1.0	1.0	0.500	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	3/21/2018	<1.0	1.0	0.500	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	9/7/2018	<1.0	1.0	0.500	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	4/2/2019	<1.0	1.0	0.500	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	9/18/2019	1.6	1.0	0.299	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	3/25/2020	<1.0	1.0	0.299	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	9/15/2020	<1.0	1.0	0.299	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	3/8/2021	<1.0	1.0	0.299	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	9/28/2021	1.4	1.0	0.196	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	3/8/2022	<1.0	1.0	0.196	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	8/30/2022	<1.0	1.0	0.196	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	3/7/2023	1.1	1.0	0.346	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,2-dichloropropane	9/11/2023	1.0	1.0	0.398	5.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	10/16/2014	6.8	1.0	---	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	4/4/2015	5.1	1.0	---	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	10/1/2015	3.9	1.0	---	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	4/4/2016	5.3	1.0	4.245	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	9/20/2016	3.5	1.0	3.684	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	4/24/2017	5.0	1.0	3.679	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	10/9/2017	6.5	1.0	4.006	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	3/21/2018	6.3	1.0	4.124	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	9/7/2018	4.9	1.0	4.946	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	4/2/2019	10.4	1.0	4.981	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	9/18/2019	7.5	1.0	5.250	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	3/25/2020	6.2	1.0	5.212	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	9/15/2020	<1.0	1.0	2.551	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	3/8/2021	6.3	1.0	2.406	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	9/28/2021	6.0	1.0	2.294	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	3/8/2022	5.8	1.0	5.814	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	8/30/2022	4.6	1.0	4.798	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	3/7/2023	5.7	1.0	4.785	75.0	10/16/2014	NA	10/16/2014	
MW-4	1,4-dichlorobenzene	9/11/2023	7.4	1.0	4.519	75.0	10/16/2014	NA	10/16/2014	

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
South Dallas County Sanitary Landfill
Permit No. 25-SDP-01-75P

KEY:	SSI	SSL LCL>GWPS
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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)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI		Resamples Due	5th Background Sample
							Initial Exceedance			
MW-4	acetone	10/16/2014	<10.0	10.0	---	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	4/4/2015	<10.0	10.0	---	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	10/1/2015	<10.0	10.0	---	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	4/4/2016	<10.0	10.0	5.000	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	9/20/2016	<10.0	10.0	5.000	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	4/24/2017	<10.0	10.0	5.000	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	10/9/2017	11.2	10.0	3.865	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	3/21/2018	<10.0	10.0	3.865	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	9/7/2018	<10.0	10.0	3.865	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	4/2/2019	<10.0	10.0	3.865	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	9/18/2019	<10.0	10.0	5.000	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	3/25/2020	<10.0	10.0	5.000	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	9/15/2020	<10.0	10.0	5.000	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	3/8/2021	<10.0	10.0	5.000	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	9/28/2021	43.4	10.0	0.000	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	3/8/2022	<10.0	10.0	0.000	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	8/30/2022	<10.0	10.0	0.000	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	3/7/2023	<10.0	10.0	0.000	6300.0	10/9/2017	NA	10/16/2014	
MW-4	acetone	9/11/2023	<10.0	10.0	5.000	6300.0	10/9/2017	NA	10/16/2014	
MW-4	benzene	10/16/2014	2.4	1.0	---	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	4/4/2015	1.6	1.0	---	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	10/1/2015	1.3	1.0	---	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	4/4/2016	1.4	1.0	1.243	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	9/20/2016	1.2	1.0	1.227	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	4/24/2017	1.2	1.0	1.192	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	10/9/2017	1.3	1.0	1.192	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	3/21/2018	1.5	1.0	1.178	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	9/7/2018	<1.0	1.0	0.748	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	4/2/2019	1.0	1.0	0.698	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	9/18/2019	<1.0	1.0	0.460	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	3/25/2020	1.2	1.0	0.492	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	9/15/2020	1.3	1.0	0.692	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	3/8/2021	1.6	1.0	0.747	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	9/28/2021	1.4	1.0	1.227	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	3/8/2022	1.7	1.0	1.285	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	8/30/2022	1.2	1.0	1.214	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	3/7/2023	1.5	1.0	1.205	5.0	10/16/2014	NA	10/16/2014	
MW-4	benzene	9/11/2023	1.7	1.0	1.247	5.0	10/16/2014	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	10/16/2014	NT	6.0	---	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	4/4/2015	NT	6.0	---	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	10/1/2015	NT	6.0	---	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	4/4/2016	NT	6.0	---	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	9/20/2016	10.0	6.0	---	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	11/8/2016	<10.0	6.0	---	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	4/24/2017	NT	6.0	---	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	10/9/2017	NT	6.0	---	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	3/21/2018	NT	6.0	---	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	9/7/2018	NT	6.0	---	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	4/2/2019	NT	6.0	---	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	9/18/2019	NT	6.0	---	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	3/25/2020	NT	6.0	---	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	9/15/2020	NT	6.0	---	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	3/8/2021	NT	6.0	---	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	9/28/2021	12.0	6.0	3.814	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	3/8/2022	NT	6.0	3.814	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	8/30/2022	NT	6.0	3.814	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	3/7/2023	NT	6.0	3.814	6.0	9/28/2021	NA	10/16/2014	
MW-4	bis(2-ethylhexyl)phthalate	9/11/2023	NT	6.0	3.814	6.0	9/28/2021	NA	10/16/2014	
MW-4	chloroethane	10/16/2014	4.7	1.0	---	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	4/4/2015	2.1	1.0	---	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	10/1/2015	3.0	1.0	---	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	4/4/2016	3.1	1.0	2.289	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	9/20/2016	3.9	1.0	2.387	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	4/24/2017	2.3	1.0	2.508	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	10/9/2017	3.0	1.0	2.508	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	3/21/2018	2.4	1.0	2.264	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	9/7/2018	2.5	1.0	2.281	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	4/2/2019	2.1	1.0	2.176	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	9/18/2019	2.9	1.0	2.189	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	3/25/2020	1.5	1.0	1.733	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	9/15/2020	5.0	1.0	1.551	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	3/8/2021	1.4	1.0	1.246	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	9/28/2021	2.4	1.0	1.122	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	3/8/2022	1.2	1.0	0.445	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	8/30/2022	1.9	1.0	1.092	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	3/7/2023	1.4	1.0	1.092	2800.0	10/16/2014	NA	10/16/2014	
MW-4	chloroethane	9/11/2023	2.0	1.0	1.171	2800.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	10/16/2014	2.2	1.0	---	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	4/4/2015	<1.0	1.0	---	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	10/1/2015	2.1	1.0	---	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	4/4/2016	<1.0	1.0	0.499	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	9/20/2016	1.4	1.0	0.453	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	4/24/2017	<1.0	1.0	0.453	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	10/9/2017	2.0	1.0	0.464	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	3/21/2018	<1.0	1.0	0.464	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	9/7/2018	<1.0	1.0	0.225	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	4/2/2019	<1.0	1.0	0.225	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	9/18/2019	3.2	1.0	0.006	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	3/25/2020	<1.0	1.0	0.006	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	9/15/2020	1.6	1.0	0.344	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	3/8/2021	<1.0	1.0	0.344	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	9/28/2021	2.1	1.0	0.477	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	3/8/2022	<1.0	1.0	0.227	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	8/30/2022	4.5	1.0	0.000	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	3/7/2023	<1.0	1.0	0.000	70.0	10/16/2014	NA	10/16/2014	
MW-4	cis-1,2-dichloroethylene	9/11/2023	2.7	1.0	0.000	70.0	10/16/2014	NA	10/16/2014	

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
South Dallas County Sanitary Landfill
Permit No. 25-SDP-01-75P

KEY:	SSI	SSL LCL>GWPS
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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)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI		Resamples Due	5th Background Sample
							Initial Exceedance	10/16/2014		
MW-4	dichlorodifluoromethane	10/16/2014	3.7	1.0	---	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	4/4/2015	1.1	1.0	---	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	10/1/2015	<1.0	1.0	---	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	4/4/2016	1.4	1.0	0.462	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	9/20/2016	1.1	1.0	0.698	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	4/24/2017	1.3	1.0	0.726	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	10/9/2017	1.0	1.0	1.042	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	3/21/2018	<1.0	1.0	0.680	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	9/7/2018	<1.0	1.0	0.483	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	4/2/2019	2.6	1.0	0.288	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	9/18/2019	<1.0	1.0	0.116	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	3/25/2020	1.1	1.0	0.317	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	9/15/2020	<1.0	1.0	0.317	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	3/8/2021	<1.0	1.0	0.390	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	9/28/2021	<1.0	1.0	0.390	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	3/8/2022	<1.0	1.0	0.500	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	8/30/2022	NT	1.0	0.500	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	3/7/2023	NT	1.0	0.500	1000.0	10/16/2014	NA	10/16/2014	
MW-4	dichlorodifluoromethane	9/11/2023	NT	1.0	0.500	1000.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	10/16/2014	4.9	1.0	---	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	4/4/2015	1.3	1.0	---	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	10/1/2015	2.3	1.0	---	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	4/4/2016	<1.0	1.0	0.592	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	9/20/2016	2.2	1.0	0.842	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	4/24/2017	<1.0	1.0	0.499	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	10/9/2017	1.8	1.0	0.487	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	3/21/2018	1.8	1.0	0.933	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	9/7/2018	1.9	1.0	0.921	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	4/2/2019	1.8	1.0	1.782	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	9/18/2019	1.8	1.0	1.782	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	3/25/2020	1.0	1.0	1.262	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	9/15/2020	3.3	1.0	1.143	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	3/8/2021	<1.0	1.0	0.591	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	9/28/2021	2.8	1.0	0.723	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	3/8/2022	<1.0	1.0	0.027	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	8/30/2022	1.8	1.0	0.087	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	3/7/2023	<1.0	1.0	0.087	2.0	10/16/2014	NA	10/16/2014	
MW-4	vinyl chloride	9/11/2023	4.2	1.0	0.000	2.0	10/16/2014	NA	10/16/2014	

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

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
South Dallas County Sanitary Landfill
Permit No. 25-SDP-01-75P

KEY:	SSI	SSL LCL>GWPS
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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)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI		Resamples Due	5th Background Sample
							Initial Exceedance			
MW-5	Arsenic	10/16/2014	8.0	167.0	---	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	4/4/2015	4.3	167.0	---	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	10/1/2015	61.9	167.0	---	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	4/4/2016	11.9	167.0	0.000	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	9/20/2016	12.6	167.0	0.000	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	4/24/2017	17.4	167.0	5.087	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	10/9/2017	22.4	167.0	11.854	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	3/21/2018	<4.0	167.0	6.059	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	9/7/2018	10.1	167.0	5.276	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	4/2/2019	6.6	167.0	2.708	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	9/18/2019	18.7	167.0	3.235	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	3/25/2020	30.8	167.0	7.219	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	9/15/2020	41.9	167.0	11.304	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	3/8/2021	14.6	167.0	15.798	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	9/28/2021	76.7	167.0	18.217	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	3/8/2022	12.1	167.0	0.906	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	8/30/2022	412.0	167.0	0.000	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	3/7/2023	83.0	167.0	0.000	167.0	8/30/2022	NA	10/16/2014	
MW-5	Arsenic	9/11/2023	71.1	167.0	0.000	167.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	10/16/2014	4.0	31.3	---	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	4/4/2015	<4.0	31.3	---	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	10/1/2015	4.2	31.3	---	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	4/4/2016	<4.0	31.3	1.998	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	9/20/2016	7.7	31.3	1.644	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	4/24/2017	<4.0	31.3	1.644	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	10/9/2017	4.7	31.3	1.747	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	3/21/2018	<4.0	31.3	1.747	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	9/7/2018	<4.0	31.3	1.506	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	4/2/2019	<4.0	31.3	1.506	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	9/18/2019	<4.0	31.3	2.000	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	3/25/2020	<4.0	31.3	2.000	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	9/15/2020	4.4	31.3	1.561	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	3/8/2021	<4.0	31.3	1.561	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	9/28/2021	<4.0	31.3	1.561	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	3/8/2022	5.0	31.3	1.494	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	8/30/2022	45.5	31.3	0.000	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	3/7/2023	9.2	31.3	0.000	1300.0	8/30/2022	NA	10/16/2014	
MW-5	Copper	9/11/2023	9.6	10.0	0.000	1300.0	8/30/2022	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	10/16/2014	10.0	8.0	---	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	4/4/2015	NT	6.0	---	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	10/1/2015	NT	6.0	---	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	4/4/2016	NT	6.0	---	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	9/20/2016	NT	6.0	---	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	4/24/2017	NT	6.0	---	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	10/9/2017	NT	6.0	---	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	3/21/2018	NT	6.0	---	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	9/7/2018	NT	6.0	---	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	4/2/2019	NT	6.0	---	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	9/18/2019	NT	6.0	---	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	3/25/2020	8.0	6.0	1.309	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	9/15/2020	NT	6.0	1.309	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	3/8/2021	NT	6.0	1.309	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	9/28/2021	NT	6.0	1.309	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	3/8/2022	NT	6.0	1.309	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	8/30/2022	NT	6.0	1.309	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	3/7/2023	NT	6.0	1.309	6.0	10/16/2014	NA	10/16/2014	
MW-5	bis(2-ethylhexyl)phthalate	9/11/2023	NT	6.0	1.309	6.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	10/16/2014	3.2	1.0	---	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	4/4/2015	<1.0	1.0	---	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	10/1/2015	2.0	1.0	---	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	4/4/2016	2.7	1.0	1.083	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	9/20/2016	<1.0	1.0	0.467	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	4/24/2017	1.9	1.0	0.977	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	10/9/2017	<1.0	1.0	0.457	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	3/21/2018	<1.0	1.0	0.244	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	9/7/2018	<1.0	1.0	0.244	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	4/2/2019	1.0	1.0	0.408	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	6/5/2019	1.3	1.0	0.483	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	9/18/2019	2.0	1.0	0.657	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	3/25/2020	2.0	1.0	1.137	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	9/15/2020	1.9	1.0	1.508	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	3/8/2021	1.8	1.0	1.842	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	9/28/2021	<1.0	1.0	0.940	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	3/8/2022	<1.0	1.0	0.257	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	8/30/2022	2.7	1.0	0.110	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	3/7/2023	<1.0	1.0	0.059	2800.0	10/16/2014	NA	10/16/2014	
MW-5	chloroethane	9/11/2023	3.1	1.0	0.059	2800.0	10/16/2014	NA	10/16/2014	

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

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
South Dallas County Sanitary Landfill
Permit No. 25-SDP-01-75P

KEY:	SSI	SSL LCL>GWPS
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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)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI		5th Background Sample
							Initial Exceedance	Resamples Due	
MW-21	Barium	10/16/2014	354.0	1500.0	---	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	4/4/2015	461.0	1500.0	---	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	10/1/2015	451.0	1500.0	---	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	4/4/2016	392.0	1500.0	370.736	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	9/20/2016	630.0	1500.0	394.904	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	4/24/2017	806.0	1500.0	407.623	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	10/9/2017	472.0	1500.0	416.504	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	3/21/2018	875.0	1500.0	538.689	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	9/7/2018	598.0	1500.0	526.777	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	4/2/2019	1420.0	1500.0	476.693	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	9/18/2019	307.0	1500.0	389.550	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	3/25/2020	1730.0	1500.0	224.556	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	9/15/2020	469.0	1500.0	158.059	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	3/8/2021	1020.0	1500.0	125.453	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	9/28/2021	498.0	1500.0	234.263	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	3/8/2022	803.0	4278.1	388.403	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	8/30/2022	450.0	4179.8	377.044	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	3/7/2023	1420.0	1322.7	267.618	2000.0	3/25/2020	NA	10/16/2014
MW-21	Barium	9/11/2023	465.0	1305.6	250.541	2000.0	3/25/2020	NA	10/16/2014
MW-21	chloroethane	10/16/2014	1.4	1.0	---	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	4/4/2015	1.1	1.0	---	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	10/1/2015	1.7	1.0	---	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	4/4/2016	2.4	1.0	1.168	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	9/20/2016	1.4	1.0	1.168	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	4/24/2017	2.6	1.0	1.533	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	10/9/2017	1.0	1.0	1.181	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	3/21/2018	<1.0	1.0	0.599	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	9/7/2018	1.6	1.0	0.643	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	4/2/2019	1.8	1.0	0.713	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	9/18/2019	1.7	1.0	0.876	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	3/25/2020	1.2	1.0	1.347	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	9/15/2020	<1.0	1.0	0.785	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	3/8/2021	1.3	1.0	0.743	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	9/28/2021	<1.0	1.0	0.498	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	3/8/2022	1.0	1.0	0.361	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	8/30/2022	<1.0	1.0	0.361	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	3/7/2023	1.0	1.0	0.337	2800.0	10/16/2014	NA	10/16/2014
MW-21	chloroethane	9/11/2023	<1.0	1.0	0.337	2800.0	10/16/2014	NA	10/16/2014

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

Table 7
 Summary of Ongoing & Newly Identified SSI
 Annual Water Quality Report
 South Dallas County Sanitary Landfill
 Permit No. 25-SDP-01-75P

KEY: SSI SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-22	benzene	10/16/2014	<1.0	1.0	---	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	4/4/2015	1.6	1.0	---	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	10/1/2015	<1.0	1.0	---	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	4/4/2016	<1.0	1.0	0.299	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	9/20/2016	<1.0	1.0	0.299	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	4/24/2017	1.7	1.0	0.280	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	10/9/2017	<1.0	1.0	0.280	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	3/21/2018	2.3	1.0	0.471	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	9/7/2018	1.5	1.0	0.852	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	4/2/2019	2.2	1.0	0.906	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	9/18/2019	2.3	1.0	1.741	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	3/25/2020	2.4	1.0	1.746	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	9/15/2020	1.5	1.0	1.746	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	3/8/2021	1.4	1.0	1.447	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	9/28/2021	<1.0	1.0	0.777	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	3/8/2022	1.0	1.0	0.880	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	8/30/2022	<1.0	1.0	0.565	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	3/7/2023	2.0	1.0	0.479	5.0	4/4/2015	NA	10/16/2014
MW-22	benzene	9/11/2023	<1.0	1.0	0.479	5.0	4/4/2015	NA	10/16/2014
MW-22	chloroethane	10/16/2014	1.0	1.0	---	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	4/4/2015	1.1	1.0	---	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	10/1/2015	<1.0	1.0	---	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	4/4/2016	<1.0	1.0	0.498	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	9/20/2016	<1.0	1.0	0.390	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	4/24/2017	1.5	1.0	0.317	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	10/9/2017	<1.0	1.0	0.317	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	3/21/2018	<1.0	1.0	0.317	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	9/7/2018	<1.0	1.0	0.317	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	4/2/2019	<1.0	1.0	0.500	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	9/18/2019	<1.0	1.0	0.500	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	3/25/2020	<1.0	1.0	0.500	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	9/15/2020	1.7	1.0	0.280	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	3/8/2021	1.2	1.0	0.468	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	9/28/2021	<1.0	1.0	0.468	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	3/8/2022	<1.0	1.0	0.287	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	8/30/2022	<1.0	1.0	0.287	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	3/7/2023	<1.0	1.0	0.500	2800.0	10/16/2014	NA	10/16/2014
MW-22	chloroethane	9/11/2023	<1.0	1.0	0.500	2800.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	10/16/2014	<1.0	1.0	---	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	4/4/2015	1.6	1.0	---	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	10/1/2015	1.0	1.0	---	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	4/4/2016	<1.0	1.0	0.447	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	9/20/2016	<1.0	1.0	0.447	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	4/24/2017	2.9	1.0	0.237	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	10/9/2017	<1.0	1.0	0.061	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	3/21/2018	<1.0	1.0	0.061	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	9/7/2018	1.5	1.0	0.366	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	4/2/2019	1.4	1.0	0.499	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	9/18/2019	1.8	1.0	0.815	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	3/25/2020	1.8	1.0	1.446	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	9/15/2020	1.3	1.0	1.347	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	3/8/2021	1.1	1.0	1.192	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	9/28/2021	<1.0	1.0	0.709	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	3/8/2022	<1.0	1.0	0.542	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	8/30/2022	<1.0	1.0	0.365	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	3/7/2023	1.3	1.0	0.037	2.0	10/16/2014	NA	10/16/2014
MW-22	vinyl chloride	9/11/2023	<1.0	1.0	0.037	2.0	10/16/2014	NA	10/16/2014

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Table 8 - Summary of Ongoing and Newly Identified SSL
(NOT USED)

Table 9 – Analytical Data Summary

Table 9

Analytical Data Summary for GWD-1

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	6/14/2016	9/20/2016	11/8/2016	4/24/2017	10/9/2017
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1		<1		<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1		<1		<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1		<1		<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1		<1		<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1		<1		<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1		<1		<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1		<1		<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1		<1		<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1		<1		<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1		<1		<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1		<1		<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1		<1		<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1		<1		<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5		<5		<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5		<5		<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5		<5		<5	<5
Acetone	ug/L	<10	<10	<10	<10		<10		<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5		<5		<5	<5
Antimony, total	ug/L	<2	<2	<2	<2		<2		<2	<2
Arsenic, total	ug/L	<4.0	5.4	<4.0	4.7	<4.0	4.6	5.7	5.6	5.0
Barium, total	ug/L	118.0	170.0	95.5	114.0		102.0		96.9	232.0
Benzene	ug/L	<1	<1	<1	<1		<1		<1	<1
Beryllium, total	ug/L	<4	<4	<4	<4		<4		<4	<4
Bromochloromethane	ug/L	<1	<1	<1	<1		<1		<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1		<1		<1	<1
Bromoform	ug/L	<1	<1	<1	<1		<1		<1	<1
Bromomethane	ug/L	<1	<1	<1	<1		<1		<1	<1
Cadmium, total	ug/L	<8	<8	<8	<8		<8		<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1		<1		<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1		<1		<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1		<1		<1	<1
Chloroethane	ug/L	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0
Chloroform	ug/L	<1	<1	<1	<1		<1		<1	<1
Chloromethane	ug/L	<1	<1	<1	<1		<1		<1	<1
Chromium, total	ug/L	<8	<8	<8	<8		<8		<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1		<1		<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1		<1		<1	<1
Cobalt, total	ug/L	<8	1.0	1.3	1.1		3.8		4.6	3.0
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0		<4.0		<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1		<1		<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1		<1		<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1		<1		<1	<1
Lead, total	ug/L	<4	<4	<4	<4		<4		<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1		<1		<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5		<5		<5	<5
Nickel, total	ug/L	<4.0	<4.0	4.3	<4.0		8.3		11.3	9.8
Selenium, total	ug/L	<4	<4	<4	<4		<4		<4	<4
Silver, total	ug/L	<4	<4	<4	<4		<4		<4	<4
Solids, total suspended	mg/L	<2	12	11	10		10		40	30
Styrene	ug/L	<1	<1	<1	<1		<1		<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1		<1		<1	<1
Thallium, total	ug/L	<4	<4	<1	<4		<4		<4	<4
Toluene	ug/L	<1	<1	<1	<1		<1		<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1		<1		<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1		<1		<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5		<5		<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1		<1		<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1		<1		<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20		<20		<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5		<5		<5	<5
Vinyl chloride	ug/L	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0
Xylenes, total	ug/L	<2	<2	<2	<2		<2		<2	<2
Zinc, total	ug/L	<20	<8	<8	<8		<8		<8	<8

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

Table 9

Analytical Data Summary for GWD-1

Constituents	3/21/2018	6/11/2018	9/7/2018	4/2/2019	9/18/2019	3/25/2020	9/15/2020	12/2/2020	3/8/2021
1,1,1,2-tetrachloroethane	<1		<1	<1	<1	<1	<1		<1
1,1,1-trichloroethane	<1		<1	<1	<1	<1	<1		<1
1,1,2,2-tetrachloroethane	<1		<1	<1	<1	<1	<1		<1
1,1,2-trichloroethane	<1		<1	<1	<1	<1	<1		<1
1,1-dichloroethane	<1		<1	<1	<1	<1	<1		<1
1,1-dichloroethylene	<1		<1	<1	<1	<1	<1		<1
1,2,3-trichloropropane	<1		<1	<1	<1	<1	<1		<1
1,2-dibromo-3-chloropropane	<1		<1	<1	<1	<5	<5		<5
1,2-dibromoethane	<1		<1	<1	<1	<1	<1		<1
1,2-dichlorobenzene	<1		<1	<1	<1	<1	<1		<1
1,2-dichloroethane	<1		<1	<1	<1	<1	<1		<1
1,2-dichloropropane	<1		<1	<1	<1	<1	<1		<1
1,4-dichlorobenzene	<1		<1	<1	<1	<1	<1		<1
2-butanone (mek)	<5		<5	<5	<5	<5	<5		<5
2-hexanone (mbk)	<5		<5	<5	<5	<5	<5		<5
4-methyl-2-pentanone (mibk)	<5		<5	<5	<5	<5	<5		<5
Acetone	<10		<10	<10	<10	<10	<10		<10
Acrylonitrile	<5		<5	<5	<5	<5	<5		<5
Antimony, total	<2		<2	<2	<2	<2	<2		<2
Arsenic, total	9.6	10.4	6.0	<4.0	5.6	5.3	7.0		10.2
Barium, total	205.0	254.0	148.0	112.0	139.0	123.0	136.0		148.0
Benzene	<1		<1	<1	<1	<1	<1		<1
Beryllium, total	<4		<4	<4	<4	<4	<4		<4
Bromochloromethane	<1		<1	<1	<1	<1	<1		<1
Bromodichloromethane	<1		<1	<1	<1	<1	<1		<1
Bromoform	<1		<1	<1	<1	<1	<1		<1
Bromomethane	<1		<1	<1	<1	<1	<1		<1
Cadmium, total	<.8		<.8	<.8	<.8	<.8	<.8		<.8
Carbon disulfide	<1		<1	<1	<1	<1	<1		<1
Carbon tetrachloride	<1		<1	<1	<1	<1	<1		<1
Chlorobenzene	<1		<1	<1	<1	<1	<1		<1
Chloroethane	<1.0		<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0
Chloroform	<1		<1	<1	<1	<1	<1	<1.0	<1
Chloromethane	<1		<1	<1	<1	<1	<1		<1
Chromium, total	<8		<8	<8	<8	<8	<8		<8
Cis-1,2-dichloroethylene	<1		<1	<1	<1	<1	<1		<1
Cis-1,3-dichloropropene	<1		<1	<1	<1	<1	<1		<1
Cobalt, total	<2.0		1.1	1.7	1.0	3.7	3.2		2.9
Copper, total	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Dibromochloromethane	<1		<1	<1	<1	<1	<1		<1
Dibromomethane	<1		<1	<1	<1	<1	<1		<1
Ethylbenzene	<1		<1	<1	<1	<1	<1		<1
Lead, total	<4		<4	<4	<4	<4	<4		<4
Methyl iodide	<1		<1	<1	<1	<1	<1		<1
Methylene chloride	<5		<5	<5	<5	<5	<5		<5
Nickel, total	<20.0		<4.0	5.9	<4.0	10.3	8.4		7.4
Selenium, total	<4		<4	<4	<4	<4	<4		<4
Silver, total	<4		<8	<4	<4	<4	<4		<4
Solids, total suspended									
Styrene	<1		<1	<1	<1	<1	<1		<1
Tetrachloroethylene	<1		<1	<1	<1	<1	<1		<1
Thallium, total	<4		<4	<2	<2	<2	<2		<2
Toluene	<1		<1	<1	<1	<1	<1		<1
Trans-1,2-dichloroethylene	<1		<1	<1	<1	<1	<1		<1
Trans-1,3-dichloropropene	<1		<1	<1	<1	<1	<1		<1
Trans-1,4-dichloro-2-butene	<5		<5	<5	<5	<5	<5		<5
Trichloroethylene	<1		<1	<1	<1	<1	<1		<1
Trichlorofluoromethane	<1		<1	<1	<1	<1	<1		<1
Vanadium, total	<20		<20	<20	<20	<20	<20		<20
Vinyl acetate	<5		<5	<5	<5	<5	<5		<5
Vinyl chloride	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
Xylenes, total	<2		<2	<2	<2	<2	<2		<2
Zinc, total	<8		<8	<8	<8	<20	<20		<20

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

Table 9

Analytical Data Summary for GWD-1

Constituents	9/28/2021	3/8/2022	8/30/2022	3/7/2023	5/9/2023	6/7/2023
1,1,1,2-tetrachloroethane	<1	<1	<1	<1		
1,1,1-trichloroethane	<1	<1	<1	<1		
1,1,2,2-tetrachloroethane	<1	<1	<1	<1		
1,1,2-trichloroethane	<1	<1	<1	<1		
1,1-dichloroethane	<1	<1	<1	<1		
1,1-dichloroethylene	<1	<1	<1	<1		
1,2,3-trichloropropane	<1	<1	<1	<1		
1,2-dibromo-3-chloropropane	<5	<5	<5	<5		
1,2-dibromoethane	<1	<1	<1	<1		
1,2-dichlorobenzene	<1	<1	<1	<1		
1,2-dichloroethane	<1	<1	<1	<1		
1,2-dichloropropane	<1	<1	<1	<1		
1,4-dichlorobenzene	<1	<1	<1	<1		
2-butanone (mek)	<5	<10	<10	<10		
2-hexanone (mbk)	<5	<5	<5	<5		
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5		
Acetone	<10	<10	<10	<10		
Acrylonitrile	<5	<5	<5	<5		
Antimony, total	<2	<2	<2	<2		
Arsenic, total	5.7	4.3	5.8	5.3		
Barium, total	136.0	182.0	252.0	199.0		
Benzene	<1	<1	<1	<1		
Beryllium, total	<4	<4	<4	<4		
Bromochloromethane	<1	<1	<1	<1		
Bromodichloromethane	<1	<1	<1	<1		
Bromoform	<1	<1	<1	<1		
Bromomethane	<1	<1	<1	<1		
Cadmium, total	<.8	<.8	<.8	<.8		
Carbon disulfide	<1	<1	<1	<1		
Carbon tetrachloride	<1	<1	<1	<1		
Chlorobenzene	<1	<1	<1	<1		
Chloroethane	<1.0	<1.0	<1.0	<1.0		
Chloroform	<1	<1	<1	<1		
Chloromethane	<1	<1	<1	<1		
Chromium, total	<8	<8	<8	<8		
Cis-1,2-dichloroethylene	<1	<1	<1	<1		
Cis-1,3-dichloropropene	<1	<1	<1	<1		
Cobalt, total	.4	.8	.5	.6		
Copper, total	<4.0	<4.0	11.3	<4.0		
Dibromochloromethane	<1	<1	<1	<1		
Dibromomethane	<1	<1	<1	<1		
Ethylbenzene	<1	<1	<1	<1		
Lead, total	<4	<4	<4	<4		
Methyl iodide	<1	<1	<1	<1		
Methylene chloride	<5	<5	<5	<5		
Nickel, total	<4.0	<4.0	<4.0	<4.0		
Selenium, total	<4	<4	<4	<4		
Silver, total	<4	<4	<4	<4		
Solids, total suspended						
Styrene	<1	<1	<1	<1		
Tetrachloroethylene	<1	<1	<1	<1		
Thallium, total	<2	<2	<2	<2		
Toluene	<1	<1	<1	<1		
Trans-1,2-dichloroethylene	<1	<1	<1	<1		
Trans-1,3-dichloropropene	<1	<1	<1	<1		
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5		
Trichloroethylene	<1	<1	<1	<1		
Trichlorofluoromethane	<1	<1	<1	<1		
Vanadium, total	<20	<20	<20	<20		
Vinyl acetate	<5	<5	<5	<5		
Vinyl chloride	<1.0	<1.0	<1.0	1.3	1.5	1.2
Xylenes, total	<2	<2	<2	<2		
Zinc, total	<20	<20	<20	<20		

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

Table 9

Analytical Data Summary for MW-10

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	4/24/2017	3/21/2018	4/2/2019	3/25/2020
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<5
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	189	169	205	170	129	112	135	174
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	2.2	.9	<.8	1.6	<.8	<.8	<.8	<.8
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	5.0	<4.0	4.1	7.9	<4.0	<4.0	<4.0	<4.0
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L	12	4	3	14	28			
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4	<4	<1	<4	<4	<4	<2	<2
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<20.0	<8.0	<8.0	8.6	<8.0	<8.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW-12

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	11/8/2016	4/24/2017	10/9/2017
(34) -methylphenol	ug/L					<8			
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1-dichloropropene	ug/L					<1			
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2,4,5-tetrachlorobenzene	ug/L					<8			
1,2,4-trichlorobenzene	ug/L					<1			
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dinitrobenzene	ug/L					<8			
1,3,5-trinitrobenzene	ug/L					<8			
1,3-dichlorobenzene	ug/L					<1			
1,3-dichloropropane	ug/L					<1			
1,3-dinitrobenzene	ug/L					<8			
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,4-naphthoquinone	ug/L					<8			
1,4-phenylenediamine	ug/L					<8			
1-naphthylamine	ug/L					<8			
2,2-dichloropropane	ug/L					<1			
2,3,4,6-tetrachlorophenol	ug/L					<8			
2,4,5-t	ug/L					<.5			
2,4,5-tp (silvex)	ug/L					<.5			
2,4,5-trichlorophenol	ug/L					<8			
2,4,6-trichlorophenol	ug/L					<8			
2,4-d	ug/L					<2			
2,4-dichlorophenol	ug/L					<8			
2,4-dimethylphenol	ug/L					<8			
2,4-dinitrophenol	ug/L					<8			
2,4-dinitrotoluene	ug/L					<8			
2,6-dichlorophenol	ug/L					<8			
2,6-dinitrotoluene	ug/L					<8			
2-acetylaminofluorene	ug/L					<8			
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5		<5	<5
2-chloronaphthalene	ug/L					<8			
2-chlorophenol	ug/L					<8			
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5		<5	<5
2-methylnaphthalene	ug/L					<8			
2-methylphenol	ug/L					<8			
2-naphthylamine	ug/L					<8			
2-nitroaniline	ug/L					<8			
2-nitrophenol	ug/L					<8			
3,3'-dichlorobenzidine	ug/L					<8			
3,3'-dimethylbenzidine	ug/L					<8			
3-methylcholanthrene	ug/L					<8			
3-nitroaniline	ug/L					<8			
4,4'-ddd	ug/L					<.05			
4,4'-dde	ug/L					<.05			
4,4'-ddt	ug/L					<.05			
4,6-dinitro-2-methylphenol	ug/L					<8			
4-aminobiphenyl	ug/L					<8			
4-bromophenyl phenyl ether	ug/L					<8			
4-chloro-3-methylphenol	ug/L					<8			
4-chloroaniline	ug/L					<8			
4-chlorophenyl phenyl ether	ug/L					<8			
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5		<5	<5
4-nitroaniline	ug/L					<8			
4-nitrophenol	ug/L					<8			
5-nitro-o-toluidine	ug/L					<8			
7,12-dimethylbenz(a)anthracene	ug/L					<8			
Acenaphthene	ug/L					<8			
Acenaphthylene	ug/L					<8			
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0		<10.0	12.9
Acetonitrile	ug/L					<10			
Acetophenone	ug/L					<8			
Acrolein	ug/L					<10			
Acrylonitrile	ug/L	<5	<5	<5	<5	<5		<5	<5
Aldrin	ug/L					<.05			
Allyl chloride	ug/L					<1			
Alpha-bhc	ug/L					<.05			
Anthracene	ug/L					<8			

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

Table 9

Analytical Data Summary for MW-12

Constituents	3/21/2018	9/7/2018	4/2/2019	9/18/2019	3/25/2020	9/15/2020	12/2/2020	3/8/2021	9/28/2021
(34) -methylphenol									
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene									
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene									
1,2,4-trichlorobenzene									
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<5	<5		<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene									
1,3,5-trinitrobenzene									
1,3-dichlorobenzene									
1,3-dichloropropane									
1,3-dinitrobenzene									
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
1,4-naphthoquinone									
1,4-phenylenediamine									
1-naphthylamine									
2,2-dichloropropane									
2,3,4,6-tetrachlorophenol									
2,4,5-t									
2,4,5-tp (silvex)									
2,4,5-trichlorophenol									
2,4,6-trichlorophenol									
2,4-d									
2,4-dichlorophenol									
2,4-dimethylphenol									
2,4-dinitrophenol									
2,4-dinitrotoluene									
2,6-dichlorophenol									
2,6-dinitrotoluene									
2-acetylaminofluorene									
2-butanone (mek)	<5	<5	<5	<5	<5	<5		<5	<5
2-chloronaphthalene									
2-chlorophenol									
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5		<5	<5
2-methylnaphthalene									
2-methylphenol									
2-naphthylamine									
2-nitroaniline									
2-nitrophenol									
3,3'-dichlorobenzidine									
3,3'-dimethylbenzidine									
3-methylcholanthrene									
3-nitroaniline									
4,4'-ddd									
4,4'-dde									
4,4'-ddt									
4,6-dinitro-2-methylphenol									
4-aminobiphenyl									
4-bromophenyl phenyl ether									
4-chloro-3-methylphenol									
4-chloroaniline									
4-chlorophenyl phenyl ether									
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5		<5	<5
4-nitroaniline									
4-nitrophenol									
5-nitro-o-toluidine									
7,12-dimethylbenz(a)anthracene									
Acenaphthene									
Acenaphthylene									
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0		<10.0	<10.0
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile	<5	<5	<5	<5	<5	<5		<5	<5
Aldrin									
Allyl chloride									
Alpha-bhc									
Anthracene									

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

Table 9

Analytical Data Summary for MW-12

Constituents	3/8/2022	8/30/2022	3/7/2023	9/11/2023
(34) -methylphenol				
1,1,1,2-tetrachloroethane	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1
1,1-dichloropropene				
1,2,3-trichloropropane	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene				
1,2,4-trichlorobenzene				
1,2-dibromo-3-chloropropane	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1
1,2-dinitrobenzene				
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				
2,4,5-tp (silvex)				
2,4,5-trichlorophenol				
2,4,6-trichlorophenol				
2,4-d				
2,4-dichlorophenol				
2,4-dimethylphenol				
2,4-dinitrophenol				
2,4-dinitrotoluene				
2,6-dichlorophenol				
2,6-dinitrotoluene				
2-acetylaminofluorene				
2-butanone (mek)	<10	<10	<10	<10
2-chloronaphthalene				
2-chlorophenol				
2-hexanone (mbk)	<5	<5	<5	<5
2-methylnaphthalene				
2-methylphenol				
2-naphthylamine				
2-nitroaniline				
2-nitrophenol				
3,3'-dichlorobenzidine				
3,3'-dimethylbenzidine				
3-methylcholanthrene				
3-nitroaniline				
4,4'-ddd				
4,4'-dde				
4,4'-ddt				
4,6-dinitro-2-methylphenol				
4-aminobiphenyl				
4-bromophenyl phenyl ether				
4-chloro-3-methylphenol				
4-chloroaniline				
4-chlorophenyl phenyl ether				
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5
4-nitroaniline				
4-nitrophenol				
5-nitro-o-toluidine				
7,12-dimethylbenz(a)anthracene				
Acenaphthene				
Acenaphthylene				
Acetone	<10.0	<10.0	<10.0	<10.0
Acetonitrile				
Acetophenone				
Acrolein				
Acrylonitrile	<5	<5	<5	<5
Aldrin				
Allyl chloride				
Alpha-bhc				
Anthracene				

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

Table 9

Analytical Data Summary for MW-12

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	11/8/2016	4/24/2017	10/9/2017
Antimony, total	ug/L	<2	<2	<2	<2	<2		<2	<2
Arochlor 1016	ug/L					<1			
Arochlor 1221	ug/L					<2			
Arochlor 1232	ug/L					<2			
Arochlor 1242	ug/L					<2			
Arochlor 1248	ug/L					<2			
Arochlor 1254	ug/L					<1			
Arochlor 1260	ug/L					<1			
Arsenic, total	ug/L	7.2	7.5	<4.0	5.4	4.9		5.3	<4.0
Azobenzene	ug/L					<8			
Barium, total	ug/L	342	319	512	414	313		375	392
Benzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Benzo(a)anthracene	ug/L					<8			
Benzo(a)pyrene	ug/L					<8			
Benzo(b)fluoranthene	ug/L					<8			
Benzo(g,h,i)perylene	ug/L					<8			
Benzo(k)fluoranthene	ug/L					<8			
Benzyl alcohol	ug/L					<8			
Beryllium, total	ug/L	<4	<4	<4	<4	<4		<4	<4
Beta-bhc	ug/L					<.05			
Bis (2-chloroethoxy) methane	ug/L					<8			
Bis(2-chloroethyl) ether	ug/L					<8			
Bis(2-chloroisopropyl) ether	ug/L					<8			
Bis(2-ethylhexyl) phthalate	ug/L	<10				10	<10		
Bromochloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Butyl benzyl phthalate	ug/L					<8			
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8		<.8	.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1		<1	<1
Chlordane	ug/L					<1			
Chlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate	ug/L					<8			
Chloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
Chloroform	ug/L	<1	<1	<1	<1	<1		<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Chloroprene	ug/L					<1			
Chromium, total	ug/L	<8	<8	<8	<8	<8		<8	<8
Chrysene	ug/L					<8			
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1		<1	<1
Cobalt, total	ug/L	13.5	15.6	<.8	6.3	14.4		7.4	1.0
Copper, total	ug/L	<4.0	<4.0	<4.0	6.3	<4.0		<4.0	<4.0
Cyanide, total	mg/L					<.005			
Delta-bhc	ug/L					<.05			
Diallate	ug/L					<8			
Dibenzo(a,h)anthracene	ug/L					<8			
Dibenzofuran	ug/L					<8			
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Dichlorodifluoromethane	ug/L					<1			
Dieldrin	ug/L					<.05			
Diethyl phthalate	ug/L					<8			
Dimethoate	ug/L					<.4			
Dimethylphthalate	ug/L					<8			
Di-n-butyl phthalate	ug/L					<8			
Di-n-octyl phthalate	ug/L					<8			
Dinoseb	ug/L					<.5			
Diphenylamine	ug/L					<8			
Disulfoton	ug/L					<.4			
Endosulfan i	ug/L					<.05			
Endosulfan ii	ug/L					<.05			
Endosulfan sulfate	ug/L					<.05			
Endrin	ug/L					<.05			
Endrin aldehyde	ug/L					<.05			
Ethyl methacrylate	ug/L					<10			
Ethyl methanesulfonate	ug/L					<8			
Ethylbenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Famphur	ug/L					<.4			
Fluoranthene	ug/L					<8			
Fluorene	ug/L					<8			
Gamma-bhc (lindane)	ug/L					<.05			
Heptachlor	ug/L					<.05			
Heptachlor epoxide	ug/L					<.05			
Hexachlorobenzene	ug/L					<.05			

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

Table 9

Analytical Data Summary for MW-12

Constituents	3/21/2018	9/7/2018	4/2/2019	9/18/2019	3/25/2020	9/15/2020	12/2/2020	3/8/2021	9/28/2021
Antimony, total	<2	<2	<2	<2	<2	<2		<2	<2
Arochlor 1016									
Arochlor 1221									
Arochlor 1232									
Arochlor 1242									
Arochlor 1248									
Arochlor 1254									
Arochlor 1260									
Arsenic, total	12.7	<4.0	<4.0	11.5	<4.0	5.9		<4.0	13.7
Azobenzene									
Barium, total	548	420	289	492	369	374		361	332
Benzene	<1	<1	<1	<1	<1	<1		<1	<1
Benzo(a)anthracene									
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(g,h,i)perylene									
Benzo(k)fluoranthene									
Benzyl alcohol									
Beryllium, total	<4	<4	<4	<4	<4	<4		<4	<4
Beta-bhc									
Bis (2-chloroethoxy) methane									
Bis(2-chloroethyl) ether									
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl) phthalate									
Bromochloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Bromoform	<1	<1	<1	<1	<1	<1		<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1		<1	<1
Butyl benzyl phthalate									
Cadmium, total	<.8	<.8	<.8	1.6	<.8	<.8		<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1		<1	<1
Chlordane									
Chlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate									
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0
Chloroform	<1	<1	<1	<1	<1	<1		<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Chloroprene									
Chromium, total	<8	<8	<8	<8	<8	<8		<8	<8
Chrysene									
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1		<1	<1
Cobalt, total	5.5	3.7	5.3	1.4	6.9	2.3		4.7	2.3
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
Cyanide, total									
Delta-bhc									
Diallate									
Dibenzo(a,h)anthracene									
Dibenzofuran									
Dibromochloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1		<1	<1
Dichlorodifluoromethane									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethylphthalate									
Di-n-butyl phthalate									
Di-n-octyl phthalate									
Dinoseb									
Diphenylamine									
Disulfoton									
Endosulfan i									
Endosulfan ii									
Endosulfan sulfate									
Endrin									
Endrin aldehyde									
Ethyl methacrylate									
Ethyl methanesulfonate									
Ethylbenzene	<1	<1	<1	<1	<1	<1		<1	<1
Famphur									
Fluoranthene									
Fluorene									
Gamma-bhc (lindane)									
Heptachlor									
Heptachlor epoxide									
Hexachlorobenzene									

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

Table 9

Analytical Data Summary for MW-12

Constituents	3/8/2022	8/30/2022	3/7/2023	9/11/2023
Antimony, total	<2	<2	<2	<2
Arochlor 1016				
Arochlor 1221				
Arochlor 1232				
Arochlor 1242				
Arochlor 1248				
Arochlor 1254				
Arochlor 1260				
Arsenic, total	8.3	18.5	10.2	8.7
Azobenzene				
Barium, total	382	311	450	285
Benzene	<1	<1	<1	<1
Benzo(a)anthracene				
Benzo(a)pyrene				
Benzo(b)fluoranthene				
Benzo(g,h,i)perylene				
Benzo(k)fluoranthene				
Benzyl alcohol				
Beryllium, total	<4	<4	<4	<4
Beta-bhc				
Bis (2-chloroethoxy) methane				
Bis(2-chloroethyl) ether				
Bis(2-chloroisopropyl) ether				
Bis(2-ethylhexyl) phthalate				
Bromochloromethane	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1
Butyl benzyl phthalate				
Cadmium, total	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1
Chlordane				
Chlorobenzene	<1	<1	<1	<1
Chlorobenzilate				
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1
Chloroprene				
Chromium, total	<8	<8	<8	<8
Chrysene				
Cis-1,2-dichloroethylene	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1
Cobalt, total	5.1	1.7	4.4	1.8
Copper, total	<4.0	<4.0	<4.0	<4.0
Cyanide, total				
Delta-bhc				
Diallate				
Dibenzo(a,h)anthracene				
Dibenzofuran				
Dibromochloromethane	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1
Dichlorodifluoromethane				
Dieldrin				
Diethyl phthalate				
Dimethoate				
Dimethylphthalate				
Di-n-butyl phthalate				
Di-n-octyl phthalate				
Dinoseb				
Diphenylamine				
Disulfoton				
Endosulfan i				
Endosulfan ii				
Endosulfan sulfate				
Endrin				
Endrin aldehyde				
Ethyl methacrylate				
Ethyl methanesulfonate				
Ethylbenzene	<1	<1	<1	<1
Famphur				
Fluoranthene				
Fluorene				
Gamma-bhc (lindane)				
Heptachlor				
Heptachlor epoxide				
Hexachlorobenzene				

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

Table 9

Analytical Data Summary for MW-12

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	11/8/2016	4/24/2017	10/9/2017
Hexachlorobutadiene	ug/L					<8			
Hexachlorocyclopentadiene	ug/L					<8			
Hexachloroethane	ug/L					<8			
Hexachloropropene	ug/L					<8			
Indeno(1,2,3-cd)pyrene	ug/L					<8			
Isobutanol	ug/L					<1000			
Isodrin	ug/L					<8			
Isophorone	ug/L					<8			
Isosafrole	ug/L					<8			
Kepone	ug/L					<8			
Lead, total	ug/L	<4	<4	<4	<4	<4		<4	<4
Mercury, total	ug/L					<.5			
Methacrylonitrile	ug/L					<1			
Methapyrilene	ug/L					<8			
Methoxychlor	ug/L					<.05			
Methyl iodide	ug/L	<1	<1	<1	<1	<1		<1	<1
Methyl methacrylate	ug/L					<1			
Methyl methanesulfonate	ug/L					<8			
Methyl parathion	ug/L					<4			
Methylene chloride	ug/L	<5	<5	<5	<5	<5		<5	<5
Naphthalene	ug/L					<8			
Nickel, total	ug/L	15.7	18.4	<4.0	9.6	11.8		12.9	<4.0
Nitrobenzene	ug/L					<8			
N-nitrosodiethylamine	ug/L					<8			
N-nitrosodimethylamine	ug/L					<8			
N-nitrosodi-n-butylamine	ug/L					<8			
N-nitroso-di-n-propylamine	ug/L					<8			
N-nitrosodiphenylamine	ug/L					<8			
N-nitrosomethylethylamine	ug/L					<8			
N-nitrosopiperidine	ug/L					<8			
N-nitrosopyrrolidine	ug/L					<8			
O,o,o-triethyl phosphorothioate	ug/L					<4			
O-toluidine	ug/L					<8			
Parathion	ug/L					<4			
P-dimethylaminoazobenzene	ug/L					<8			
Pentachlorobenzene	ug/L					<8			
Pentachloronitrobenzene (pcnb)	ug/L					<8			
Pentachlorophenol	ug/L					<8			
Phenacetin	ug/L					<8			
Phenanthrene	ug/L					<8			
Phenol	ug/L					<8			
Phorate	ug/L					<4			
Pronamide	ug/L					<8			
Propionitrile	ug/L					<10			
Pyrene	ug/L					<8			
Safrole	ug/L					<8			
Selenium, total	ug/L	<4	<4	<4	<4	<4		<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4		<4	<4
Solids, total suspended	mg/L	62	41	79	47	59		100	87
Styrene	ug/L	<1	<1	<1	<1	<1		<1	<1
Sulfide, total	mg/L					<1			
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
Thallium, total	ug/L	<4.0	<4.0	<1.0	<4.0	<4.0		<4.0	<4.0
Thionazin	ug/L					<4			
Tin, total	ug/L					<20			
Toluene	ug/L	<1	<1	<1	<1	<1		<1	<1
Toxaphene	ug/L					<2			
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5		<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20		<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5		<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2		<2	<2
Zinc, total	ug/L	<20.0	<8.0	<8.0	<8.0	<8.0		<8.0	<8.0

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

Table 9

Analytical Data Summary for MW-12

Constituents	3/21/2018	9/7/2018	4/2/2019	9/18/2019	3/25/2020	9/15/2020	12/2/2020	3/8/2021	9/28/2021
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno(1,2,3-cd)pyrene									
Isobutanol									
Isodrin									
Isophorone									
Isosafrole									
Kepon									
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total									
Methacrylonitrile									
Methacrylone									
Methoxychlor									
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate									
Methyl methanesulfonate									
Methyl parathion									
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene									
Nickel, total	<20.0	5.6	7.6	<4.0	10.5	4.8		7.5	4.5
Nitrobenzene									
N-nitrosodiethylamine									
N-nitrosodimethylamine									
N-nitrosodi-n-butylamine									
N-nitroso-di-n-propylamine									
N-nitrosodiphenylamine									
N-nitrosomethylethylamine									
N-nitrosopiperidine									
N-nitrosopyrrolidine									
O,o,o-triethyl phosphorothioate									
O-toluidine									
Parathion									
P-dimethylaminoazobenzene									
Pentachlorobenzene									
Pentachloronitrobenzene (pcnb)									
Pentachlorophenol									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Pronamide									
Propionitrile									
Pyrene									
Safrole									
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total									
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin									
Tin, total									
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene									
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	98.8	<8.0	27.2	<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-12

Constituents	3/8/2022	8/30/2022	3/7/2023	9/11/2023
Hexachlorobutadiene				
Hexachlorocyclopentadiene				
Hexachloroethane				
Hexachloropropene				
Indeno(1,2,3-cd)pyrene				
Isobutanol				
Isodrin				
Isophorone				
Isosafrole				
Kepone				
Lead, total	<4	<4	<4	<4
Mercury, total				
Methacrylonitrile				
Methapyrilene				
Methoxychlor				
Methyl iodide	<1	<1	<1	<1
Methyl methacrylate				
Methyl methanesulfonate				
Methyl parathion				
Methylene chloride	<5	<5	<5	<5
Naphthalene				
Nickel, total	8.0	4.2	8.2	4.1
Nitrobenzene				
N-nitrosodiethylamine				
N-nitrosodimethylamine				
N-nitrosodi-n-butylamine				
N-nitroso-di-n-propylamine				
N-nitrosodiphenylamine				
N-nitrosomethylethylamine				
N-nitrosopiperidine				
N-nitrosopyrrolidine				
O,o,o-triethyl phosphorothioate				
O-toluidine				
Parathion				
P-dimethylaminoazobenzene				
Pentachlorobenzene				
Pentachloronitrobenzene (pcnb)				
Pentachlorophenol				
Phenacetin				
Phenanthrene				
Phenol				
Phorate				
Pronamide				
Propionitrile				
Pyrene				
Safrole				
Selenium, total	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4
Solids, total suspended				
Styrene	<1	<1	<1	<1
Sulfide, total				
Tetrachloroethylene	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0
Thionazin				
Tin, total				
Toluene	<1	<1	<1	<1
Toxaphene				
Trans-1,2-dichloroethylene	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW-15R

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
(34) -methylphenol	ug/L				<8					
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L				<1					
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L				<8					
1,2,4-trichlorobenzene	ug/L				<1					
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene	ug/L				<8					
1,3,5-trinitrobenzene	ug/L				<8					
1,3-dichlorobenzene	ug/L				<1					
1,3-dichloropropane	ug/L				<1					
1,3-dinitrobenzene	ug/L				<8					
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L				<8					
1,4-phenylenediamine	ug/L				<8					
1-naphthylamine	ug/L				<8					
2,2-dichloropropane	ug/L				<1					
2,3,4,6-tetrachlorophenol	ug/L				<8					
2,4,5-t	ug/L				<5					
2,4,5-tp (silvex)	ug/L				<5					
2,4,5-trichlorophenol	ug/L				<8					
2,4,6-trichlorophenol	ug/L				<8					
2,4-d	ug/L				<2					
2,4-dichlorophenol	ug/L				<8					
2,4-dimethylphenol	ug/L				<8					
2,4-dinitrophenol	ug/L				<8					
2,4-dinitrotoluene	ug/L				<8					
2,6-dichlorophenol	ug/L				<8					
2,6-dinitrotoluene	ug/L				<8					
2-acetylaminofluorene	ug/L				<8					
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene	ug/L				<8					
2-chlorophenol	ug/L				<8					
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L				<8					
2-methylphenol	ug/L				<8					
2-naphthylamine	ug/L				<8					
2-nitroaniline	ug/L				<8					
2-nitrophenol	ug/L				<8					
3,3'-dichlorobenzidine	ug/L				<8					
3,3'-dimethylbenzidine	ug/L				<8					
3-methylcholanthrene	ug/L				<8					
3-nitroaniline	ug/L				<8					
4,4'-ddd	ug/L				<.05					
4,4'-dde	ug/L				<.05					
4,4'-ddt	ug/L				<.05					
4,6-dinitro-2-methylphenol	ug/L				<8					
4-aminobiphenyl	ug/L				<8					
4-bromophenyl phenyl ether	ug/L				<8					
4-chloro-3-methylphenol	ug/L				<8					
4-chloroaniline	ug/L				<8					
4-chlorophenyl phenyl ether	ug/L				<8					
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	ug/L				<8					
4-nitrophenol	ug/L				<8					
5-nitro-o-toluidine	ug/L				<8					
7,12-dimethylbenz(a)anthracene	ug/L				<8					
Acenaphthene	ug/L				<8					
Acenaphthylene	ug/L				<8					
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	10.4	<10.0	<10.0
Acetonitrile	ug/L				<10					
Acetophenone	ug/L				<8					
Acrolein	ug/L				<10					
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin	ug/L				<.05					
Allyl chloride	ug/L				<1					
Alpha-bhc	ug/L				<.05					
Anthracene	ug/L				<8					

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

Table 9

Analytical Data Summary for MW-15R

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022	8/30/2022	3/7/2023
(34) -methylphenol									
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene									
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene									
1,2,4-trichlorobenzene									
1,2-dibromo-3-chloropropane	<1	<1	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene									
1,3,5-trinitrobenzene									
1,3-dichlorobenzene									
1,3-dichloropropane									
1,3-dinitrobenzene									
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone									
1,4-phenylenediamine									
1-naphthylamine									
2,2-dichloropropane									
2,3,4,6-tetrachlorophenol									
2,4,5-t									
2,4,5-tp (silvex)									
2,4,5-trichlorophenol									
2,4,6-trichlorophenol									
2,4-d									
2,4-dichlorophenol									
2,4-dimethylphenol									
2,4-dinitrophenol									
2,4-dinitrotoluene									
2,6-dichlorophenol									
2,6-dinitrotoluene									
2-acetylaminofluorene									
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<10	<10	<10
2-chloronaphthalene									
2-chlorophenol									
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene									
2-methylphenol									
2-naphthylamine									
2-nitroaniline									
2-nitrophenol									
3,3'-dichlorobenzidine									
3,3'-dimethylbenzidine									
3-methylcholanthrene									
3-nitroaniline									
4,4'-ddd									
4,4'-dde									
4,4'-ddt									
4,6-dinitro-2-methylphenol									
4-aminobiphenyl									
4-bromophenyl phenyl ether									
4-chloro-3-methylphenol									
4-chloroaniline									
4-chlorophenyl phenyl ether									
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline									
4-nitrophenol									
5-nitro-o-toluidine									
7,12-dimethylbenz(a)anthracene									
Acenaphthene									
Acenaphthylene									
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin									
Allyl chloride									
Alpha-bhc									
Anthracene									

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

Table 9

Analytical Data Summary for MW-15R

Constituents	9/11/2023
(34) -methylphenol	
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-dichloroethylene	<1
1,1-dichloropropene	
1,2,3-trichloropropane	<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-dichloropropane	<1
1,2-dinitrobenzene	
1,3,5-trinitrobenzene	
1,3-dichlorobenzene	
1,3-dichloropropane	
1,3-dinitrobenzene	
1,4-dichlorobenzene	<1
1,4-naphthoquinone	
1,4-phenylenediamine	
1-naphthylamine	
2,2-dichloropropane	
2,3,4,6-tetrachlorophenol	
2,4,5-t	
2,4,5-tp (silvex)	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
2,4-d	
2,4-dichlorophenol	
2,4-dimethylphenol	
2,4-dinitrophenol	
2,4-dinitrotoluene	
2,6-dichlorophenol	
2,6-dinitrotoluene	
2-acetylaminofluorene	
2-butanone (mek)	<10
2-chloronaphthalene	
2-chlorophenol	
2-hexanone (mbk)	<5
2-methylnaphthalene	
2-methylphenol	
2-naphthylamine	
2-nitroaniline	
2-nitrophenol	
3,3'-dichlorobenzidine	
3,3'-dimethylbenzidine	
3-methylcholanthrene	
3-nitroaniline	
4,4'-ddd	
4,4'-dde	
4,4'-ddt	
4,6-dinitro-2-methylphenol	
4-aminobiphenyl	
4-bromophenyl phenyl ether	
4-chloro-3-methylphenol	
4-chloroaniline	
4-chlorophenyl phenyl ether	
4-methyl-2-pentanone (mibk)	<5
4-nitroaniline	
4-nitrophenol	
5-nitro-o-toluidine	
7,12-dimethylbenz(a)anthracene	
Acenaphthene	
Acenaphthylene	
Acetone	<10.0
Acetonitrile	
Acetophenone	
Acrolein	
Acrylonitrile	<5
Aldrin	
Allyl chloride	
Alpha-bhc	
Anthracene	

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

Table 9

Analytical Data Summary for MW-15R

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L				<.1					
Arochlor 1221	ug/L				<.2					
Arochlor 1232	ug/L				<.2					
Arochlor 1242	ug/L				<.2					
Arochlor 1248	ug/L				<.2					
Arochlor 1254	ug/L				<.1					
Arochlor 1260	ug/L				<.1					
Arsenic, total	ug/L	36.6	44.5	29.0	41.1	24.2	28.3	20.6	21.5	23.9
Azobenzene	ug/L				<8					
Barium, total	ug/L	645	552	436	461	543	469	461	466	471
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene	ug/L				<8					
Benzo(a)pyrene	ug/L				<8					
Benzo(b)fluoranthene	ug/L				<8					
Benzo(g,h,i)perylene	ug/L				<8					
Benzo(k)fluoranthene	ug/L				<8					
Benzyl alcohol	ug/L				<8					
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc	ug/L				<.05					
Bis (2-chloroethoxy) methane	ug/L				<8					
Bis(2-chloroethyl) ether	ug/L				<8					
Bis(2-chloroisopropyl) ether	ug/L				<8					
Bis(2-ethylhexyl) phthalate	ug/L				<8					
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	ug/L				<8					
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L				<.1					
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	ug/L				<8					
Chloroethane	ug/L	<1	<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	2	<1	<1
Chloroprene	ug/L				<1					
Chromium, total	ug/L	13.7	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene	ug/L				<8					
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	6.5	4.4	3.7	3.8	3.0	2.6	3.8	2.6	3.3
Copper, total	ug/L	14.2	8.5	<4.0	4.7	5.5	<4.0	<4.0	<4.0	<4.0
Cyanide, total	mg/L				<.005					
Delta-bhc	ug/L				<.05					
Diallate	ug/L				<8					
Dibenzo(a,h)anthracene	ug/L				<8					
Dibenzofuran	ug/L				<8					
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L				1					
Dieldrin	ug/L				<.05					
Diethyl phthalate	ug/L				<8					
Dimethoate	ug/L				<.4					
Dimethylphthalate	ug/L				<8					
Di-n-butyl phthalate	ug/L				<8					
Di-n-octyl phthalate	ug/L				<8					
Dinoseb	ug/L				<.5					
Diphenylamine	ug/L				<8					
Disulfoton	ug/L				<.4					
Endosulfan i	ug/L				<.05					
Endosulfan ii	ug/L				<.05					
Endosulfan sulfate	ug/L				<.05					
Endrin	ug/L				<.05					
Endrin aldehyde	ug/L				<.05					
Ethyl methacrylate	ug/L				<10					
Ethyl methanesulfonate	ug/L				<8					
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L				<.4					
Fluoranthene	ug/L				<8					
Fluorene	ug/L				<8					
Gamma-bhc (lindane)	ug/L				<.05					
Heptachlor	ug/L				<.05					
Heptachlor epoxide	ug/L				<.05					
Hexachlorobenzene	ug/L				<.05					

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

Table 9

Analytical Data Summary for MW-15R

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022	8/30/2022	3/7/2023
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016									
Arochlor 1221									
Arochlor 1232									
Arochlor 1242									
Arochlor 1248									
Arochlor 1254									
Arochlor 1260									
Arsenic, total	19.0	22.7	31.3	29.6	35.0	25.2	18.4	19.7	21.5
Azobenzene									
Barium, total	405	476	606	505	575	474	384	384	393
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene									
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(g,h,i)perylene									
Benzo(k)fluoranthene									
Benzyl alcohol									
Beryllium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc									
Bis (2-chloroethoxy) methane									
Bis(2-chloroethyl) ether									
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl) phthalate									
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate									
Cadmium, total	<.8	<.8	<.8	<.8	.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane									
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate									
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene									
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene									
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	2.9	4.2	3.4	5.8	2.9	3.1	2.7	3.3	1.8
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total									
Delta-bhc									
Diallate									
Dibenzo(a,h)anthracene									
Dibenzofuran									
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethylphthalate									
Di-n-butyl phthalate									
Di-n-octyl phthalate									
Dinoseb									
Diphenylamine									
Disulfoton									
Endosulfan i									
Endosulfan ii									
Endosulfan sulfate									
Endrin									
Endrin aldehyde									
Ethyl methacrylate									
Ethyl methanesulfonate									
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur									
Fluoranthene									
Fluorene									
Gamma-bhc (lindane)									
Heptachlor									
Heptachlor epoxide									
Hexachlorobenzene									

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

Table 9

Analytical Data Summary for MW-15R

Constituents	9/11/2023
Antimony, total	<2
Arochlor 1016	
Arochlor 1221	
Arochlor 1232	
Arochlor 1242	
Arochlor 1248	
Arochlor 1254	
Arochlor 1260	
Arsenic, total	20.1
Azobenzene	
Barium, total	354
Benzene	<1
Benzo(a)anthracene	
Benzo(a)pyrene	
Benzo(b)fluoranthene	
Benzo(g,h,i)perylene	
Benzo(k)fluoranthene	
Benzyl alcohol	
Beryllium, total	<4
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, total	<.8
Carbon disulfide	<1
Carbon tetrachloride	<1
Chlordane	
Chlorobenzene	<1
Chlorobenzilate	
Chloroethane	<1
Chloroform	<1
Chloromethane	<1
Chloroprene	
Chromium, total	<8.0
Chrysene	
Cis-1,2-dichloroethylene	<1
Cis-1,3-dichloropropene	<1
Cobalt, total	3.8
Copper, total	<4.0
Cyanide, total	
Delta-bhc	
Diallate	
Dibenzo(a,h)anthracene	
Dibenzofuran	
Dibromochloromethane	<1
Dibromomethane	<1
Dichlorodifluoromethane	
Dieldrin	
Diethyl phthalate	
Dimethoate	
Dimethylphthalate	
Di-n-butyl phthalate	
Di-n-octyl phthalate	
Dinoseb	
Diphenylamine	
Disulfoton	
Endosulfan i	
Endosulfan ii	
Endosulfan sulfate	
Endrin	
Endrin aldehyde	
Ethyl methacrylate	
Ethyl methanesulfonate	
Ethylbenzene	<1
Famphur	
Fluoranthene	
Fluorene	
Gamma-bhc (lindane)	
Heptachlor	
Heptachlor epoxide	
Hexachlorobenzene	

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

Table 9

Analytical Data Summary for MW-15R

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
Hexachlorobutadiene	ug/L				<8					
Hexachlorocyclopentadiene	ug/L				<8					
Hexachloroethane	ug/L				<8					
Hexachloropropene	ug/L				<8					
Indeno(1,2,3-cd)pyrene	ug/L				<8					
Isobutanol	ug/L				<1000					
Isodrin	ug/L				<8					
Isophorone	ug/L				<8					
Isosafrole	ug/L				<8					
Kepone	ug/L				<8					
Lead, total	ug/L	10.0	6.5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Mercury, total	ug/L				<.5					
Methacrylonitrile	ug/L				<1					
Methapyrilene	ug/L				<8					
Methoxychlor	ug/L				<.05					
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate	ug/L				<1					
Methyl methanesulfonate	ug/L				<8					
Methyl parathion	ug/L				<.4					
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L				<8					
Nickel, total	ug/L	15.0	10.5	4.5	5.2	<4.0	<4.0	4.1	<20.0	4.3
Nitrobenzene	ug/L				<8					
N-nitrosodiethylamine	ug/L				<8					
N-nitrosodimethylamine	ug/L				<8					
N-nitrosodi-n-butylamine	ug/L				<8					
N-nitroso-di-n-propylamine	ug/L				<8					
N-nitrosodiphenylamine	ug/L				<8					
N-nitrosomethylethylamine	ug/L				<8					
N-nitrosopiperidine	ug/L				<8					
N-nitrosopyrrolidine	ug/L				<8					
O,o,o-triethyl phosphorothioate	ug/L				<.4					
O-toluidine	ug/L				<8					
Parathion	ug/L				<.4					
P-dimethylaminoazobenzene	ug/L				<8					
Pentachlorobenzene	ug/L				<8					
Pentachloronitrobenzene (pcnb)	ug/L				<8					
Pentachlorophenol	ug/L				<8					
Phenacetin	ug/L				<8					
Phenanthrene	ug/L				<8					
Phenol	ug/L				<8					
Phorate	ug/L				<.4					
Pronamide	ug/L				<8					
Propionitrile	ug/L				<40					
Pyrene	ug/L				<8					
Safrole	ug/L				<8					
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L	748	380	89	274	293	308	1050		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L				.14					
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Thionazin	ug/L				<.4					
Tin, total	ug/L				<20					
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L				<.2					
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	27.9	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	38.1	29.4	<8.0	<8.0	14.1	<8.0	<8.0	<8.0	91.2

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

Table 9

Analytical Data Summary for MW-15R

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022	8/30/2022	3/7/2023
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno(1,2,3-cd)pyrene									
Isobutanol									
Isodrin									
Isophorone									
Isosafrole									
Kepone									
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Mercury, total									
Methacrylonitrile									
Methapyrilene									
Methoxychlor									
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate									
Methyl methanesulfonate									
Methyl parathion									
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene									
Nickel, total	<4.0	4.5	4.0	6.1	<4.0	<4.0	<4.0	4.2	<4.0
Nitrobenzene									
N-nitrosodiethylamine									
N-nitrosodimethylamine									
N-nitrosodi-n-butylamine									
N-nitroso-di-n-propylamine									
N-nitrosodiphenylamine									
N-nitrosomethylethylamine									
N-nitrosopiperidine									
N-nitrosopyrrolidine									
O,o,o-triethyl phosphorothioate									
O-toluidine									
Parathion									
P-dimethylaminoazobenzene									
Pentachlorobenzene									
Pentachloronitrobenzene (pcnb)									
Pentachlorophenol									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Pronamide									
Propionitrile									
Pyrene									
Safrole									
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total									
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin									
Tin, total									
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene									
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	13.7	22.4	<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-15R

Constituents	9/11/2023
Hexachlorobutadiene	
Hexachlorocyclopentadiene	
Hexachloroethane	
Hexachloropropene	
Indeno(1,2,3-cd)pyrene	
Isobutanol	
Isodrin	
Isophorone	
Isosafrole	
Kepone	
Lead, total	<4.0
Mercury, total	
Methacrylonitrile	
Methapyrilene	
Methoxychlor	
Methyl iodide	<1
Methyl methacrylate	
Methyl methanesulfonate	
Methyl parathion	
Methylene chloride	<5
Naphthalene	
Nickel, total	4.2
Nitrobenzene	
N-nitrosodiethylamine	
N-nitrosodimethylamine	
N-nitrosodi-n-butylamine	
N-nitroso-di-n-propylamine	
N-nitrosodiphenylamine	
N-nitrosomethylethylamine	
N-nitrosopiperidine	
N-nitrosopyrrolidine	
O,o,o-triethyl phosphorothioate	
O-toluidine	
Parathion	
P-dimethylaminoazobenzene	
Pentachlorobenzene	
Pentachloronitrobenzene (pcnb)	
Pentachlorophenol	
Phenacetin	
Phenanthrene	
Phenol	
Phorate	
Pronamide	
Propionitrile	
Pyrene	
Safrole	
Selenium, total	<4
Silver, total	<4
Solids, total suspended	
Styrene	<1
Sulfide, total	
Tetrachloroethylene	<1
Thallium, total	<2.0
Thionazin	
Tin, total	
Toluene	<1
Toxaphene	
Trans-1,2-dichloroethylene	<1
Trans-1,3-dichloropropene	<1
Trans-1,4-dichloro-2-butene	<5
Trichloroethylene	<1
Trichlorofluoromethane	<1
Vanadium, total	<20.0
Vinyl acetate	<5
Vinyl chloride	<1
Xylenes, total	<2
Zinc, total	<20.0

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

Table 9

Analytical Data Summary for MW-16

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
(34) -methylphenol	ug/L					<8				
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L					<1				
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L					<8				
1,2,4-trichlorobenzene	ug/L					<1				
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene	ug/L					<8				
1,3,5-trinitrobenzene	ug/L					<8				
1,3-dichlorobenzene	ug/L					<1				
1,3-dichloropropane	ug/L					<1				
1,3-dinitrobenzene	ug/L					<8				
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L					<8				
1,4-phenylenediamine	ug/L					<8				
1-naphthylamine	ug/L					<8				
2,2-dichloropropane	ug/L					<1				
2,3,4,6-tetrachlorophenol	ug/L					<8				
2,4,5-t	ug/L					<.5				
2,4,5-tp (silvex)	ug/L					<.5				
2,4,5-trichlorophenol	ug/L					<8				
2,4,6-trichlorophenol	ug/L					<8				
2,4-d	ug/L					<2				
2,4-dichlorophenol	ug/L					<8				
2,4-dimethylphenol	ug/L					<8				
2,4-dinitrophenol	ug/L					<8				
2,4-dinitrotoluene	ug/L					<8				
2,6-dichlorophenol	ug/L					<8				
2,6-dinitrotoluene	ug/L					<8				
2-acetylaminofluorene	ug/L					<8				
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene	ug/L					<8				
2-chlorophenol	ug/L					<8				
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L					<8				
2-methylphenol	ug/L					<8				
2-naphthylamine	ug/L					<8				
2-nitroaniline	ug/L					<8				
2-nitrophenol	ug/L					<8				
3,3'-dichlorobenzidine	ug/L					<8				
3,3'-dimethylbenzidine	ug/L					<8				
3-methylcholanthrene	ug/L					<8				
3-nitroaniline	ug/L					<8				
4,4'-ddd	ug/L					<.05				
4,4'-dde	ug/L					<.05				
4,4'-ddt	ug/L					<.05				
4,6-dinitro-2-methylphenol	ug/L					<8				
4-aminobiphenyl	ug/L					<8				
4-bromophenyl phenyl ether	ug/L					<8				
4-chloro-3-methylphenol	ug/L					<8				
4-chloroaniline	ug/L					<8				
4-chlorophenyl phenyl ether	ug/L					<8				
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	ug/L					<8				
4-nitrophenol	ug/L					<8				
5-nitro-o-toluidine	ug/L					<8				
7,12-dimethylbenz(a)anthracene	ug/L					<8				
Acenaphthene	ug/L					<8				
Acenaphthylene	ug/L					<8				
Acetone	ug/L	124.0	14.1	13.1	<10.0	26.8	134.0	17.0	24.5	72.3
Acetonitrile	ug/L					<10				
Acetophenone	ug/L					<8				
Acrolein	ug/L					<10				
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin	ug/L					<.05				
Allyl chloride	ug/L					<1				
Alpha-bhc	ug/L					<.05				
Anthracene	ug/L					<8				

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

Table 9

Analytical Data Summary for MW-16

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021
(34) -methylphenol					
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<5
1,1,1-trichloroethane	<1	<1	<1	<1	<5
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<5
1,1,2-trichloroethane	<1	<1	<1	<1	<5
1,1-dichloroethane	<1	<1	<1	<1	<5
1,1-dichloroethylene	<1	<1	<1	<1	<5
1,1-dichloropropene					
1,2,3-trichloropropane	<1	<1	<1	<1	<5
1,2,4,5-tetrachlorobenzene					
1,2,4-trichlorobenzene					
1,2-dibromo-3-chloropropane	<1	<1	<5	<5	<25
1,2-dibromoethane	<1	<1	<1	<1	<5
1,2-dichlorobenzene	<1	<1	<1	<1	<5
1,2-dichloroethane	<1	<1	<1	<1	<5
1,2-dichloropropane	<1	<1	<1	<1	<5
1,2-dinitrobenzene					
1,3,5-trinitrobenzene					
1,3-dichlorobenzene					
1,3-dichloropropane					
1,3-dinitrobenzene					
1,4-dichlorobenzene	<1	<1	<1	<1	<5
1,4-naphthoquinone					
1,4-phenylenediamine					
1-naphthylamine					
2,2-dichloropropane					
2,3,4,6-tetrachlorophenol					
2,4,5-t					
2,4,5-tp (silvex)					
2,4,5-trichlorophenol					
2,4,6-trichlorophenol					
2,4-d					
2,4-dichlorophenol					
2,4-dimethylphenol					
2,4-dinitrophenol					
2,4-dinitrotoluene					
2,6-dichlorophenol					
2,6-dinitrotoluene					
2-acetylaminofluorene					
2-butanone (mek)	<5	35	<5	<5	<25
2-chloronaphthalene					
2-chlorophenol					
2-hexanone (mbk)	<5	<5	<5	<5	<25
2-methylnaphthalene					
2-methylphenol					
2-naphthylamine					
2-nitroaniline					
2-nitrophenol					
3,3'-dichlorobenzidine					
3,3'-dimethylbenzidine					
3-methylcholanthrene					
3-nitroaniline					
4,4'-ddd					
4,4'-dde					
4,4'-ddt					
4,6-dinitro-2-methylphenol					
4-aminobiphenyl					
4-bromophenyl phenyl ether					
4-chloro-3-methylphenol					
4-chloroaniline					
4-chlorophenyl phenyl ether					
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<25
4-nitroaniline					
4-nitrophenol					
5-nitro-o-toluidine					
7,12-dimethylbenz(a)anthracene					
Acenaphthene					
Acenaphthylene					
Acetone	34.2	196.0	51.2	109.0	1140.0
Acetonitrile					
Acetophenone					
Acrolein					
Acrylonitrile	<5	<5	<5	<5	<25
Aldrin					
Allyl chloride					
Alpha-bhc					
Anthracene					

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

Table 9

Analytical Data Summary for MW-16

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L					<1				
Arochlor 1221	ug/L					<2				
Arochlor 1232	ug/L					<2				
Arochlor 1242	ug/L					<2				
Arochlor 1248	ug/L					<2				
Arochlor 1254	ug/L					<1				
Arochlor 1260	ug/L					<1				
Arsenic, total	ug/L	29.7	<4.0	26.1	34.2	27.4	32.5	17.1	29.5	25.8
Azobenzene	ug/L					<8				
Barium, total	ug/L	927	609	751	807	750	912	785	765	683
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene	ug/L					<8				
Benzo(a)pyrene	ug/L					<8				
Benzo(b)fluoranthene	ug/L					<8				
Benzo(g,h,i)perylene	ug/L					<8				
Benzo(k)fluoranthene	ug/L					<8				
Benzyl alcohol	ug/L					<8				
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc	ug/L					<.05				
Bis (2-chloroethoxy) methane	ug/L					<8				
Bis(2-chloroethyl) ether	ug/L					<8				
Bis(2-chloroisopropyl) ether	ug/L					<8				
Bis(2-ethylhexyl) phthalate	ug/L					<8				
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	ug/L					<8				
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	.9	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L					<1				
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	ug/L					<8				
Chloroethane	ug/L	<1	<1	<1	1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0
Chloroprene	ug/L					<1				
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	11.8	<8.0	<8.0	<8.0
Chrysene	ug/L					<8				
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	2.8	1.6	1.3	3.7	9.5	16.3	1.9	2.4	2.7
Copper, total	ug/L	4.1	<4.0	<4.0	7.7	13.7	24.2	<4.0	<4.0	4.8
Cyanide, total	mg/L					<.005				
Delta-bhc	ug/L					<.05				
Diallate	ug/L					<8				
Dibenzo(a,h)anthracene	ug/L					<8				
Dibenzofuran	ug/L					<8				
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L	<1	<1	<1	1	<1	<1	<1	<1	<1
Dieldrin	ug/L					<.05				
Diethyl phthalate	ug/L					<8				
Dimethoate	ug/L					<.4				
Dimethylphthalate	ug/L					<8				
Di-n-butyl phthalate	ug/L					<8				
Di-n-octyl phthalate	ug/L					<8				
Dinoseb	ug/L					<.5				
Diphenylamine	ug/L					<8				
Disulfoton	ug/L					<.4				
Endosulfan i	ug/L					<.05				
Endosulfan ii	ug/L					<.05				
Endosulfan sulfate	ug/L					<.05				
Endrin	ug/L					<.05				
Endrin aldehyde	ug/L					<.05				
Ethyl methacrylate	ug/L					<10				
Ethyl methanesulfonate	ug/L					<8				
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L					<.4				
Fluoranthene	ug/L					<8				
Fluorene	ug/L					<8				
Gamma-bhc (lindane)	ug/L					<.05				
Heptachlor	ug/L					<.05				
Heptachlor epoxide	ug/L					<.05				
Hexachlorobenzene	ug/L					<.05				

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

Table 9

Analytical Data Summary for MW-16

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021
Antimony, total	<2	<2	<2	<2	<2
Arochlor 1016					
Arochlor 1221					
Arochlor 1232					
Arochlor 1242					
Arochlor 1248					
Arochlor 1254					
Arochlor 1260					
Arsenic, total	16.0	30.0	27.1	47.2	82.7
Azobenzene					
Barium, total	705	944	900	844	1520
Benzene	<1	<1	<1	<1	<5
Benzo(a)anthracene					
Benzo(a)pyrene					
Benzo(b)fluoranthene					
Benzo(g,h,i)perylene					
Benzo(k)fluoranthene					
Benzyl alcohol					
Beryllium, total	<4	<4	<4	<4	<4
Beta-bhc					
Bis (2-chloroethoxy) methane					
Bis(2-chloroethyl) ether					
Bis(2-chloroisopropyl) ether					
Bis(2-ethylhexyl) phthalate					
Bromochloromethane	<1	<1	<1	<1	<5
Bromodichloromethane	<1	<1	<1	<1	<5
Bromoform	<1	<1	<1	<1	<5
Bromomethane	<1	<1	<1	<1	<5
Butyl benzyl phthalate					
Cadmium, total	<.8	1.5	<.8	1.1	3.3
Carbon disulfide	<1	<1	<1	<1	<5
Carbon tetrachloride	<1	<1	<1	<1	<5
Chlordane					
Chlorobenzene	<1	<1	<1	<1	<5
Chlorobenzilate					
Chloroethane	<1	<1	<1	<1	<5
Chloroform	<1	<1	<1	<1	<5
Chloromethane	<1.0	<1.0	<1.0	<1.0	<5.0
Chloroprene					
Chromium, total	<8.0	10.3	<8.0	19.5	52.3
Chrysene					
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<5
Cis-1,3-dichloropropene	<1	<1	<1	<1	<5
Cobalt, total	5.0	7.0	3.1	14.2	36.1
Copper, total	<4.0	16.4	6.8	50.8	130.0
Cyanide, total					
Delta-bhc					
Diallate					
Dibenzo(a,h)anthracene					
Dibenzofuran					
Dibromochloromethane	<1	<1	<1	<1	<5
Dibromomethane	<1	<1	<1	<1	<5
Dichlorodifluoromethane					
Dieldrin					
Diethyl phthalate					
Dimethoate					
Dimethylphthalate					
Di-n-butyl phthalate					
Di-n-octyl phthalate					
Dinoseb					
Diphenylamine					
Disulfoton					
Endosulfan i					
Endosulfan ii					
Endosulfan sulfate					
Endrin					
Endrin aldehyde					
Ethyl methacrylate					
Ethyl methanesulfonate					
Ethylbenzene	<1	<1	<1	<1	<5
Famphur					
Fluoranthene					
Fluorene					
Gamma-bhc (lindane)					
Heptachlor					
Heptachlor epoxide					
Hexachlorobenzene					

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

Table 9

Analytical Data Summary for MW-16

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
Hexachlorobutadiene	ug/L					<8				
Hexachlorocyclopentadiene	ug/L					<8				
Hexachloroethane	ug/L					<8				
Hexachloropropene	ug/L					<8				
Indeno(1,2,3-cd)pyrene	ug/L					<8				
Isobutanol	ug/L					<1000				
Isodrin	ug/L					<8				
Isophorone	ug/L					<8				
Isosafrole	ug/L					<8				
Kepone	ug/L					<8				
Lead, total	ug/L	<4.0	<4.0	<4.0	<4.0	4.8	10.8	<4.0	<4.0	<4.0
Mercury, total	ug/L					<.5				
Methacrylonitrile	ug/L					<1				
Methapyrilene	ug/L					<8				
Methoxychlor	ug/L					<.05				
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate	ug/L					<1				
Methyl methanesulfonate	ug/L					<8				
Methyl parathion	ug/L					<.4				
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L					<8				
Nickel, total	ug/L	7.4	<4.0	<4.0	11.1	21.8	46.8	5.8	<20.0	7.5
Nitrobenzene	ug/L					<8				
N-nitrosodiethylamine	ug/L					<8				
N-nitrosodimethylamine	ug/L					<8				
N-nitrosodi-n-butylamine	ug/L					<8				
N-nitroso-di-n-propylamine	ug/L					<8				
N-nitrosodiphenylamine	ug/L					<8				
N-nitrosomethylethylamine	ug/L					<8				
N-nitrosopiperidine	ug/L					<8				
N-nitrosopyrrolidine	ug/L					<8				
O,o,o-triethyl phosphorothioate	ug/L					<.4				
O-toluidine	ug/L					<8				
Parathion	ug/L					<.4				
P-dimethylaminoazobenzene	ug/L					<8				
Pentachlorobenzene	ug/L					<8				
Pentachloronitrobenzene (pcnb)	ug/L					<8				
Pentachlorophenol	ug/L					<8				
Phenacetin	ug/L					<8				
Phenanthrene	ug/L					<8				
Phenol	ug/L					<8				
Phorate	ug/L					<.4				
Pronamide	ug/L					<8				
Propionitrile	ug/L					<10				
Pyrene	ug/L					<8				
Safrole	ug/L					<8				
Selenium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L	232	90	160	200	192	1120	2140		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L					<1				
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4	<4	<1	<4	<4	<4	<4	<4	<4
Thionazin	ug/L					<.4				
Tin, total	ug/L					<20				
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L					<.2				
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	28.0	<20.0	<20.0	<20.0
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<20.0	13.1	11.4	22.6	35.8	56.5	13.4	<8.0	129.0

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

Table 9

Analytical Data Summary for MW-16

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021
Hexachlorobutadiene					
Hexachlorocyclopentadiene					
Hexachloroethane					
Hexachloropropene					
Indeno(1,2,3-cd)pyrene					
Isobutanol					
Isodrin					
Isophorone					
Isosafrole					
Kepona					
Lead, total	<4.0	8.5	<4.0	24.2	81.9
Mercury, total					
Methacrylonitrile					
Methapyrilene					
Methoxychlor					
Methyl iodide	<1	<1	<1	<1	<5
Methyl methacrylate					
Methyl methanesulfonate					
Methyl parathion					
Methylene chloride	<5	<5	<5	<5	<25
Naphthalene					
Nickel, total	11.2	26.4	12.1	50.1	120.0
Nitrobenzene					
N-nitrosodiethylamine					
N-nitrosodimethylamine					
N-nitrosodi-n-butylamine					
N-nitroso-di-n-propylamine					
N-nitrosodiphenylamine					
N-nitrosomethylethylamine					
N-nitrosopiperidine					
N-nitrosopyrrolidine					
O,o,o-triethyl phosphorothioate					
O-toluidine					
Parathion					
P-dimethylaminoazobenzene					
Pentachlorobenzene					
Pentachloronitrobenzene (pcnb)					
Pentachlorophenol					
Phenacetin					
Phenanthrene					
Phenol					
Phorate					
Pronamide					
Propionitrile					
Pyrene					
Safrole					
Selenium, total	<4.0	<4.0	<4.0	<4.0	11.1
Silver, total	<4	<4	<4	<4	<4
Solids, total suspended					
Styrene	<1	<1	<1	<1	<5
Sulfide, total					
Tetrachloroethylene	<1	<1	<1	<1	<5
Thallium, total	<2	<2	<2	<2	<2
Thionazin					
Tin, total					
Toluene	<1	<1	<1	<1	<5
Toxaphene					
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<5
Trans-1,3-dichloropropene	<1	<1	<1	<1	<5
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<25
Trichloroethylene	<1	<1	<1	<1	<5
Trichlorofluoromethane	<1	<1	<1	<1	<5
Vanadium, total	<20.0	38.8	<20.0	55.5	166.0
Vinyl acetate	<5	<5	<5	<5	<25
Vinyl chloride	<1	<1	<1	<1	<5
Xylenes, total	<2	<2	<2	<2	<10
Zinc, total	15.7	119.0	28.1	94.4	239.0

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

Table 9

Analytical Data Summary for MW-17

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	5.0	<4.0
Barium, total	ug/L	173	185	142	143	174	172	182	233	131
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	<8	<8	1.0	<8	.9	<8	<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	8.1	9.7	7.0	4.6	4.3	5.2	6.9	23.0	8.6
Copper, total	ug/L	4.6	<4.0	<4.0	<4.0	<4.0	<4.0	5.3	4.3	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	9.9	7.8	13.7	4.7	<4.0	6.3	8.0	<20.0	7.2
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L	46	26	33	28	156	693	404		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<1.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<20.0	<8.0	10.9	<8.0	<8.0	<8.0	<8.0	<8.0	67.4

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

Table 9

Analytical Data Summary for MW-17

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022	8/30/2022	3/7/2023	9/11/2023
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	4.4	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Barium, total	179	138	123	180	160	179	192	137	162	149
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	.8	<.8	1.1	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	46.5	54.8	7.2	11.3	7.4	13.4	5.5	1.5	13.0	.6
Copper, total	<4.0	<4.0	4.2	4.3	<4.0	7.4	4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	15.9	10.9	8.2	10.7	12.0	16.7	6.4	6.1	9.1	5.9
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended										
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.3	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	33.3	61.5	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW-18

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	11/8/2016	4/24/2017	10/9/2017
(34) -methylphenol	ug/L				<8				
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1-dichloropropene	ug/L				<1				
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2,4,5-tetrachlorobenzene	ug/L				<8				
1,2,4-trichlorobenzene	ug/L				<1				
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dinitrobenzene	ug/L				<8				
1,3,5-trinitrobenzene	ug/L				<8				
1,3-dichlorobenzene	ug/L				<1				
1,3-dichloropropane	ug/L				<1				
1,3-dinitrobenzene	ug/L				<8				
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,4-naphthoquinone	ug/L				<8				
1,4-phenylenediamine	ug/L				<8				
1-naphthylamine	ug/L				<8				
2,2-dichloropropane	ug/L				<1				
2,3,4,6-tetrachlorophenol	ug/L				<8				
2,4,5-t	ug/L				<5				
2,4,5-tp (silvex)	ug/L				<5				
2,4,5-trichlorophenol	ug/L				<8				
2,4,6-trichlorophenol	ug/L				<8				
2,4-d	ug/L				<2				
2,4-dichlorophenol	ug/L				<8				
2,4-dimethylphenol	ug/L				<8				
2,4-dinitrophenol	ug/L				<8				
2,4-dinitrotoluene	ug/L				<8				
2,6-dichlorophenol	ug/L				<8				
2,6-dinitrotoluene	ug/L				<8				
2-acetylaminofluorene	ug/L				<8				
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5		<5	<5
2-chloronaphthalene	ug/L				<8				
2-chlorophenol	ug/L				<8				
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5		<5	<5
2-methylnaphthalene	ug/L				<8				
2-methylphenol	ug/L				<8				
2-naphthylamine	ug/L				<8				
2-nitroaniline	ug/L				<8				
2-nitrophenol	ug/L				<8				
3,3'-dichlorobenzidine	ug/L				<8				
3,3'-dimethylbenzidine	ug/L				<8				
3-methylcholanthrene	ug/L				<8				
3-nitroaniline	ug/L				<8				
4,4'-ddd	ug/L				<.05				
4,4'-dde	ug/L				<.05				
4,4'-ddt	ug/L				<.05				
4,6-dinitro-2-methylphenol	ug/L				<8				
4-aminobiphenyl	ug/L				<8				
4-bromophenyl phenyl ether	ug/L				<8				
4-chloro-3-methylphenol	ug/L				<8				
4-chloroaniline	ug/L				<8				
4-chlorophenyl phenyl ether	ug/L				<8				
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5		<5	<5
4-nitroaniline	ug/L				<8				
4-nitrophenol	ug/L				<8				
5-nitro-o-toluidine	ug/L				<8				
7,12-dimethylbenz(a)anthracene	ug/L				<8				
Acenaphthene	ug/L				<8				
Acenaphthylene	ug/L				<8				
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	11.7	<10.0	<10.0	16.8
Acetonitrile	ug/L				<10				
Acetophenone	ug/L				<8				
Acrolein	ug/L				<10				
Acrylonitrile	ug/L	<5	<5	<5	<5	<5		<5	<5
Aldrin	ug/L				<.05				
Allyl chloride	ug/L				<1				
Alpha-bhc	ug/L				<.05				
Anthracene	ug/L				<8				

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

Table 9

Analytical Data Summary for MW-18

Constituents	3/21/2018	9/7/2018	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022
(34) -methylphenol									
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene									
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene									
1,2,4-trichlorobenzene									
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene									
1,3,5-trinitrobenzene									
1,3-dichlorobenzene									
1,3-dichloropropane									
1,3-dinitrobenzene									
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone									
1,4-phenylenediamine									
1-naphthylamine									
2,2-dichloropropane									
2,3,4,6-tetrachlorophenol									
2,4,5-t									
2,4,5-tp (silvex)									
2,4,5-trichlorophenol									
2,4,6-trichlorophenol									
2,4-d									
2,4-dichlorophenol									
2,4-dimethylphenol									
2,4-dinitrophenol									
2,4-dinitrotoluene									
2,6-dichlorophenol									
2,6-dinitrotoluene									
2-acetylaminofluorene									
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<10
2-chloronaphthalene									
2-chlorophenol									
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene									
2-methylphenol									
2-naphthylamine									
2-nitroaniline									
2-nitrophenol									
3,3'-dichlorobenzidine									
3,3'-dimethylbenzidine									
3-methylcholanthrene									
3-nitroaniline									
4,4'-ddd									
4,4'-dde									
4,4'-ddt									
4,6-dinitro-2-methylphenol									
4-aminobiphenyl									
4-bromophenyl phenyl ether									
4-chloro-3-methylphenol									
4-chloroaniline									
4-chlorophenyl phenyl ether									
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline									
4-nitrophenol									
5-nitro-o-toluidine									
7,12-dimethylbenz(a)anthracene									
Acenaphthene									
Acenaphthylene									
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin									
Allyl chloride									
Alpha-bhc									
Anthracene									

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

Table 9

Analytical Data Summary for MW-18

Constituents	8/30/2022	3/7/2023	9/11/2023
(34) -methylphenol			
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-dichloroethylene	<1	<1	<1
1,1-dichloropropene			
1,2,3-trichloropropane	<1	<1	<1
1,2,4,5-tetrachlorobenzene			
1,2,4-trichlorobenzene			
1,2-dibromo-3-chloropropane	<5	<5	<5
1,2-dibromoethane	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1
1,2-dichloroethane	<1	<1	<1
1,2-dichloropropane	<1	<1	<1
1,2-dinitrobenzene			
1,3,5-trinitrobenzene			
1,3-dichlorobenzene			
1,3-dichloropropane			
1,3-dinitrobenzene			
1,4-dichlorobenzene	<1	<1	<1
1,4-naphthoquinone			
1,4-phenylenediamine			
1-naphthylamine			
2,2-dichloropropane			
2,3,4,6-tetrachlorophenol			
2,4,5-t			
2,4,5-tp (silvex)			
2,4,5-trichlorophenol			
2,4,6-trichlorophenol			
2,4-d			
2,4-dichlorophenol			
2,4-dimethylphenol			
2,4-dinitrophenol			
2,4-dinitrotoluene			
2,6-dichlorophenol			
2,6-dinitrotoluene			
2-acetylaminofluorene			
2-butanone (mek)	<10	<10	<10
2-chloronaphthalene			
2-chlorophenol			
2-hexanone (mbk)	<5	<5	<5
2-methylnaphthalene			
2-methylphenol			
2-naphthylamine			
2-nitroaniline			
2-nitrophenol			
3,3'-dichlorobenzidine			
3,3'-dimethylbenzidine			
3-methylcholanthrene			
3-nitroaniline			
4,4'-ddd			
4,4'-dde			
4,4'-ddt			
4,6-dinitro-2-methylphenol			
4-aminobiphenyl			
4-bromophenyl phenyl ether			
4-chloro-3-methylphenol			
4-chloroaniline			
4-chlorophenyl phenyl ether			
4-methyl-2-pentanone (mibk)	<5	<5	<5
4-nitroaniline			
4-nitrophenol			
5-nitro-o-toluidine			
7,12-dimethylbenz(a)anthracene			
Acenaphthene			
Acenaphthylene			
Acetone	<10.0	<10.0	<10.0
Acetonitrile			
Acetophenone			
Acrolein			
Acrylonitrile	<5	<5	<5
Aldrin			
Allyl chloride			
Alpha-bhc			
Anthracene			

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

Table 9

Analytical Data Summary for MW-18

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	11/8/2016	4/24/2017	10/9/2017
Antimony, total	ug/L	<2	<2	<2	<2	<2		<2	<2
Arochlor 1016	ug/L				<.1				
Arochlor 1221	ug/L				<.2				
Arochlor 1232	ug/L				<.2				
Arochlor 1242	ug/L				<.2				
Arochlor 1248	ug/L				<.2				
Arochlor 1254	ug/L				<.1				
Arochlor 1260	ug/L				<.1				
Arsenic, total	ug/L	25.7	34.2	21.1	26.2	23.4		22.3	23.5
Azobenzene	ug/L				<8				
Barium, total	ug/L	903	1140	822	860	877		827	868
Benzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Benzo(a)anthracene	ug/L				<8				
Benzo(a)pyrene	ug/L				<8				
Benzo(b)fluoranthene	ug/L				<8				
Benzo(g,h,i)perylene	ug/L				<8				
Benzo(k)fluoranthene	ug/L				<8				
Benzyl alcohol	ug/L				<8				
Beryllium, total	ug/L	<4	<4	<4	<4	<4		<4	<4
Beta-bhc	ug/L				<.05				
Bis (2-chloroethoxy) methane	ug/L				<8				
Bis(2-chloroethyl) ether	ug/L				<8				
Bis(2-chloroisopropyl) ether	ug/L				<8				
Bis(2-ethylhexyl) phthalate	ug/L				<8				
Bromochloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Butyl benzyl phthalate	ug/L				<8				
Cadmium, total	ug/L	1.7	3.9	<.8	1.0	.9		<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1		<1	<1
Chlordane	ug/L				<.1				
Chlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate	ug/L				<8				
Chloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1		<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Chloroprene	ug/L				<1				
Chromium, total	ug/L	11.6	26.4	<8.0	<8.0	10.5		<8.0	<8.0
Chrysene	ug/L				<8				
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1		<1	<1
Cobalt, total	ug/L	23.5	35.1	9.8	12.0	17.1		8.5	7.1
Copper, total	ug/L	31.3	69.3	<4.0	<4.0	16.0		<4.0	<4.0
Cyanide, total	mg/L				<.005				
Delta-bhc	ug/L				<.05				
Diallate	ug/L				<8				
Dibenzo(a,h)anthracene	ug/L				<8				
Dibenzofuran	ug/L				<8				
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Dichlorodifluoromethane	ug/L				<1				
Dieldrin	ug/L				<.05				
Diethyl phthalate	ug/L				<8				
Dimethoate	ug/L				<.4				
Dimethylphthalate	ug/L				<8				
Di-n-butyl phthalate	ug/L				<8				
Di-n-octyl phthalate	ug/L				<8				
Dinoseb	ug/L				<.5				
Diphenylamine	ug/L				<8				
Disulfoton	ug/L				<.4				
Endosulfan i	ug/L				<.05				
Endosulfan ii	ug/L				<.05				
Endosulfan sulfate	ug/L				<.05				
Endrin	ug/L				<.05				
Endrin aldehyde	ug/L				<.05				
Ethyl methacrylate	ug/L				<10				
Ethyl methanesulfonate	ug/L				<8				
Ethylbenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Famphur	ug/L				<.4				
Fluoranthene	ug/L				<8				
Fluorene	ug/L				<8				
Gamma-bhc (lindane)	ug/L				<.05				
Heptachlor	ug/L				<.05				
Heptachlor epoxide	ug/L				<.05				
Hexachlorobenzene	ug/L				<.05				

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

Table 9

Analytical Data Summary for MW-18

Constituents	3/21/2018	9/7/2018	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016									
Arochlor 1221									
Arochlor 1232									
Arochlor 1242									
Arochlor 1248									
Arochlor 1254									
Arochlor 1260									
Arsenic, total	21.1	19.4	21.5	21.7	19.4	23.4	23.3	19.9	21.3
Azobenzene									
Barium, total	863	831	862	823	897	898	840	741	792
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene									
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(g,h,i)perylene									
Benzo(k)fluoranthene									
Benzyl alcohol									
Beryllium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc									
Bis (2-chloroethoxy) methane									
Bis(2-chloroethyl) ether									
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl) phthalate									
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate									
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	1.2	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane									
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate									
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene									
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene									
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	5.5	5.8	4.1	3.9	3.6	17.8	9.2	4.9	4.0
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total									
Delta-bhc									
Diallate									
Dibenzo(a,h)anthracene									
Dibenzofuran									
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethylphthalate									
Di-n-butyl phthalate									
Di-n-octyl phthalate									
Dinoseb									
Diphenylamine									
Disulfoton									
Endosulfan i									
Endosulfan ii									
Endosulfan sulfate									
Endrin									
Endrin aldehyde									
Ethyl methacrylate									
Ethyl methanesulfonate									
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur									
Fluoranthene									
Fluorene									
Gamma-bhc (lindane)									
Heptachlor									
Heptachlor epoxide									
Hexachlorobenzene									

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

Table 9

Analytical Data Summary for MW-18

Constituents	8/30/2022	3/7/2023	9/11/2023
Antimony, total	<2	<2	<2
Arochlor 1016			
Arochlor 1221			
Arochlor 1232			
Arochlor 1242			
Arochlor 1248			
Arochlor 1254			
Arochlor 1260			
Arsenic, total	27.3	18.3	18.7
Azobenzene			
Barium, total	760	702	709
Benzene	<1	<1	<1
Benzo(a)anthracene			
Benzo(a)pyrene			
Benzo(b)fluoranthene			
Benzo(g,h,i)perylene			
Benzo(k)fluoranthene			
Benzyl alcohol			
Beryllium, total	<4	<4	<4
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	<1	<1
Butyl benzyl phthalate			
Cadmium, total	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1
Carbon tetrachloride	<1	<1	<1
Chlordane			
Chlorobenzene	<1	<1	<1
Chlorobenzilate			
Chloroethane	<1	<1	<1
Chloroform	<1	<1	<1
Chloromethane	<1	<1	<1
Chloroprene			
Chromium, total	<8.0	<8.0	<8.0
Chrysene			
Cis-1,2-dichloroethylene	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1
Cobalt, total	9.1	9.2	11.3
Copper, total	<4.0	<4.0	<4.0
Cyanide, total			
Delta-bhc			
Diallate			
Dibenzo(a,h)anthracene			
Dibenzofuran			
Dibromochloromethane	<1	<1	<1
Dibromomethane	<1	<1	<1
Dichlorodifluoromethane			
Dieldrin			
Diethyl phthalate			
Dimethoate			
Dimethylphthalate			
Di-n-butyl phthalate			
Di-n-octyl phthalate			
Dinoseb			
Diphenylamine			
Disulfoton			
Endosulfan i			
Endosulfan ii			
Endosulfan sulfate			
Endrin			
Endrin aldehyde			
Ethyl methacrylate			
Ethyl methanesulfonate			
Ethylbenzene	<1	<1	<1
Famphur			
Fluoranthene			
Fluorene			
Gamma-bhc (lindane)			
Heptachlor			
Heptachlor epoxide			
Hexachlorobenzene			

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

Table 9

Analytical Data Summary for MW-18

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	11/8/2016	4/24/2017	10/9/2017
Hexachlorobutadiene	ug/L				<8				
Hexachlorocyclopentadiene	ug/L				<8				
Hexachloroethane	ug/L				<8				
Hexachloropropene	ug/L				<8				
Indeno(1,2,3-cd)pyrene	ug/L				<8				
Isobutanol	ug/L				<1000				
Isodrin	ug/L				<8				
Isophorone	ug/L				<8				
Isosafrole	ug/L				<8				
Kepone	ug/L				<8				
Lead, total	ug/L	12.4	27.2	<4.0	<4.0	6.2		<4.0	<4.0
Mercury, total	ug/L				<5				
Methacrylonitrile	ug/L				<1				
Methapyrilene	ug/L				<8				
Methoxychlor	ug/L				<.05				
Methyl iodide	ug/L	<1	<1	<1	<1	<1		<1	<1
Methyl methacrylate	ug/L				<1				
Methyl methanesulfonate	ug/L				<8				
Methyl parathion	ug/L				<.4				
Methylene chloride	ug/L	<5	<5	<5	<5	<5		<5	<5
Naphthalene	ug/L				<8				
Nickel, total	ug/L	35.4	67.7	12.7	16.0	25.3		11.9	10.8
Nitrobenzene	ug/L				<8				
N-nitrosodiethylamine	ug/L				<8				
N-nitrosodimethylamine	ug/L				<8				
N-nitrosodi-n-butylamine	ug/L				<8				
N-nitroso-di-n-propylamine	ug/L				<8				
N-nitrosodiphenylamine	ug/L				<8				
N-nitrosomethylethylamine	ug/L				<8				
N-nitrosopiperidine	ug/L				<8				
N-nitrosopyrrolidine	ug/L				<8				
O,o,o-triethyl phosphorothioate	ug/L				<.4				
O-toluidine	ug/L				<8				
Parathion	ug/L				<.4				
P-dimethylaminoazobenzene	ug/L				<8				
Pentachlorobenzene	ug/L				<8				
Pentachloronitrobenzene (pcnb)	ug/L				<8				
Pentachlorophenol	ug/L				<8				
Phenacetin	ug/L				<8				
Phenanthrene	ug/L				<8				
Phenol	ug/L				<8				
Phorate	ug/L				<.4				
Pronamide	ug/L				<8				
Propionitrile	ug/L				<40				
Pyrene	ug/L				<8				
Safrole	ug/L				<8				
Selenium, total	ug/L	<4	<4	<4	<4	<4		<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4		<4	<4
Solids, total suspended	mg/L	1710	1500	85	82	309		164	625
Styrene	ug/L	<1	<1	<1	<1	<1		<1	<1
Sulfide, total	mg/L				.17				
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
Thallium, total	ug/L	<4	<4	<1	<4	<4		<4	<4
Thionazin	ug/L				<.4				
Tin, total	ug/L				<20				
Toluene	ug/L	<1	<1	<1	<1	<1		<1	<1
Toxaphene	ug/L				<.2				
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5		<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Vanadium, total	ug/L	<20.0	31.6	<20.0	<20.0	<20.0		<20.0	<20.0
Vinyl acetate	ug/L	<5	<5	<5	<5	<5		<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2		<2	<2
Zinc, total	ug/L	107.0	267.0	<8.0	<8.0	56.2		<8.0	<8.0

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

Table 9

Analytical Data Summary for MW-18

Constituents	3/21/2018	9/7/2018	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno(1,2,3-cd)pyrene									
Isobutanol									
Isodrin									
Isophorone									
Isosafrole									
Kepona									
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Mercury, total									
Methacrylonitrile									
Methapyrilene									
Methoxychlor									
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate									
Methyl methanesulfonate									
Methyl parathion									
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene									
Nickel, total	<20.0	9.2	7.2	10.7	6.6	29.7	12.4	8.5	7.2
Nitrobenzene									
N-nitrosodiethylamine									
N-nitrosodimethylamine									
N-nitrosodi-n-butylamine									
N-nitroso-di-n-propylamine									
N-nitrosodiphenylamine									
N-nitrosomethylethylamine									
N-nitrosopiperidine									
N-nitrosopyrrolidine									
O,o,o-triethyl phosphorothioate									
O-toluidine									
Parathion									
P-dimethylaminoazobenzene									
Pentachlorobenzene									
Pentachloronitrobenzene (pcnb)									
Pentachlorophenol									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Pronamide									
Propionitrile									
Pyrene									
Safrole									
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total									
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4	<4	<2	<2	<2	<2	<2	<2	<2
Thionazin									
Tin, total									
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene									
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	42.5	29.3	42.8	<20.0	<20.0	<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW-18

Constituents	8/30/2022	3/7/2023	9/11/2023
Hexachlorobutadiene			
Hexachlorocyclopentadiene			
Hexachloroethane			
Hexachloropropene			
Indeno(1,2,3-cd)pyrene			
Isobutanol			
Isodrin			
Isophorone			
Isosafrole			
Kepone			
Lead, total	<4.0	<4.0	<4.0
Mercury, total			
Methacrylonitrile			
Methapyrilene			
Methoxychlor			
Methyl iodide	<1	<1	<1
Methyl methacrylate			
Methyl methanesulfonate			
Methyl parathion			
Methylene chloride	<5	<5	<5
Naphthalene			
Nickel, total	16.9	19.8	19.5
Nitrobenzene			
N-nitrosodiethylamine			
N-nitrosodimethylamine			
N-nitrosodi-n-butylamine			
N-nitroso-di-n-propylamine			
N-nitrosodiphenylamine			
N-nitrosomethylethylamine			
N-nitrosopiperidine			
N-nitrosopyrrolidine			
O,o,o-triethyl phosphorothioate			
O-toluidine			
Parathion			
P-dimethylaminoazobenzene			
Pentachlorobenzene			
Pentachloronitrobenzene (pcnb)			
Pentachlorophenol			
Phenacetin			
Phenanthrene			
Phenol			
Phorate			
Pronamide			
Propionitrile			
Pyrene			
Safrole			
Selenium, total	<4	<4	<4
Silver, total	<4	<4	<4
Solids, total suspended			
Styrene	<1	<1	<1
Sulfide, total			
Tetrachloroethylene	<1	<1	<1
Thallium, total	<2	<2	<2
Thionazin			
Tin, total			
Toluene	<1	<1	<1
Toxaphene			
Trans-1,2-dichloroethylene	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5
Trichloroethylene	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5
Vinyl chloride	<1	<1	<1
Xylenes, total	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW-19A

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	48.9	55.5	30.0	30.4	29.5	42.1	35.1	46.9	38.7
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	<8	<8	.8	<8	<8	<8	<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<2.0	<8
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	4.6	6.9	5.2	4.3	<4.0	<4.0	5.2	<20.0	6.4
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L	9	8	10	6	5	40	35		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4	<4	<1	<4	<4	<4	<4	<4	<4
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<20.0	<8.0	11.2	15.2	<8.0	<8.0	<8.0	<8.0	40.8

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

Table 9

Analytical Data Summary for MW-19A

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	12/2/2020	3/8/2021	9/28/2021	3/8/2022	8/30/2022	3/7/2023
1,1,1,2-tetrachloroethane	<1	<1	<1	<1		<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1		<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1		<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1		<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1		<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1		<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<5	<5		<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1		<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1		<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5		<5	<5	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5		<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5		<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10		<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5		<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2		<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4		<4	<4	<4	<4	<4
Barium, total	37.9	42.5	34.2	35.8		35.2	36.1	40.1	38.3	32.5
Benzene	<1	<1	<1	<1		<1	<1	<1	<1	<1
Beryllium, total	<4	<4	<4	<4		<4	<4	<4	<4	<4
Bromochloromethane	<1	<1	<1	<1		<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1		<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1		<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1		<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8		<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1		<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1		<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1		<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1		<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1		<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1		<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8		<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	<1	<1	<1	<1		<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1		<1	<1	<1	<1	<1
Cobalt, total	<.8	.8	.8	<.4		.4	.4	.6	<.4	.4
Copper, total	<4	<4	<4	<4		<4	<4	<4	<4	<4
Dibromochloromethane	<1	<1	<1	<1		<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1		<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1		<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4		<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1		<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5		<5	<5	<5	<5	<5
Nickel, total	7.7	11.8	10.5	11.5	10.5	9.5	8.0	8.0	10.4	11.4
Selenium, total	<4	<4	<4	<4		<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4		<4	<4	<4	<4	<4
Solids, total suspended										
Styrene	<1	<1	<1	<1		<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1		<1	<1	<1	<1	<1
Thallium, total	<2	<2	<2	<2		<2	<2	<2	<2	<2
Toluene	<1	<1	<1	<1		<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1		<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1		<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5		<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1		<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1		<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20		<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5		<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1		<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2		<2	<2	<2	<2	<2
Zinc, total	35.8	29.9	<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-19A

Constituents	9/11/2023
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-dichloroethylene	<1
1,2,3-trichloropropane	<1
1,2-dibromo-3-chloropropane	<5
1,2-dibromoethane	<1
1,2-dichlorobenzene	<1
1,2-dichloroethane	<1
1,2-dichloropropane	<1
1,4-dichlorobenzene	<1
2-butanone (mek)	<10
2-hexanone (mbk)	<5
4-methyl-2-pentanone (mibk)	<5
Acetone	<10
Acrylonitrile	<5
Antimony, total	<2
Arsenic, total	<4
Barium, total	32.1
Benzene	<1
Beryllium, total	<4
Bromochloromethane	<1
Bromodichloromethane	<1
Bromoform	<1
Bromomethane	<1
Cadmium, total	9.0
Carbon disulfide	<1
Carbon tetrachloride	<1
Chlorobenzene	<1
Chloroethane	<1
Chloroform	<1
Chloromethane	<1
Chromium, total	<8
Cis-1,2-dichloroethylene	<1
Cis-1,3-dichloropropene	<1
Cobalt, total	<4
Copper, total	<4
Dibromochloromethane	<1
Dibromomethane	<1
Ethylbenzene	<1
Lead, total	<4
Methyl iodide	<1
Methylene chloride	<5
Nickel, total	9.6
Selenium, total	<4
Silver, total	<4
Solids, total suspended	
Styrene	<1
Tetrachloroethylene	<1
Thallium, total	<2
Toluene	<1
Trans-1,2-dichloroethylene	<1
Trans-1,3-dichloropropene	<1
Trans-1,4-dichloro-2-butene	<5
Trichloroethylene	<1
Trichlorofluoromethane	<1
Vanadium, total	<20
Vinyl acetate	<5
Vinyl chloride	<1
Xylenes, total	<2
Zinc, total	<20.0

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

Table 9

Analytical Data Summary for MW-2

Constituents	Units	4/4/2015	10/1/2015	4/4/2016	4/24/2017	4/2/2019	3/25/2020
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<5
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	418	491	424	125	290	137
Benzene	ug/L	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1
Bromofom	ug/L	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	<8	<8	<8	<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	7.4	6.4	8.2	<8	<8	<8
Copper, total	ug/L	<4	<4	<4	<4	<4	117
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4.0	<4.0	<4.0	<4.0	13.6	<4.0
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	21.1	7.8	16.6	<4.0	8.8	<4.0
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L	5	17	6	19		
Styrene	ug/L	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4	<1	<4	<4	<2	<2
Toluene	ug/L	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0	9.1	<8.0	<8.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW-20R

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
(34) -methylphenol	ug/L				<8					
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L				<1					
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L				<8					
1,2,4-trichlorobenzene	ug/L				<1					
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene	ug/L				<8					
1,3,5-trinitrobenzene	ug/L				<8					
1,3-dichlorobenzene	ug/L				<1					
1,3-dichloropropane	ug/L				<1					
1,3-dinitrobenzene	ug/L				<8					
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L				<8					
1,4-phenylenediamine	ug/L				<8					
1-naphthylamine	ug/L				<8					
2,2-dichloropropane	ug/L				<1					
2,3,4,6-tetrachlorophenol	ug/L				<8					
2,4,5-t	ug/L				<5					
2,4,5-tp (silvex)	ug/L				<5					
2,4,5-trichlorophenol	ug/L				<8					
2,4,6-trichlorophenol	ug/L				<8					
2,4-d	ug/L				<2					
2,4-dichlorophenol	ug/L				<8					
2,4-dimethylphenol	ug/L				<8					
2,4-dinitrophenol	ug/L				<8					
2,4-dinitrotoluene	ug/L				<8					
2,6-dichlorophenol	ug/L				<8					
2,6-dinitrotoluene	ug/L				<8					
2-acetylaminofluorene	ug/L				<8					
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene	ug/L				<8					
2-chlorophenol	ug/L				<8					
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L				<8					
2-methylphenol	ug/L				<8					
2-naphthylamine	ug/L				<8					
2-nitroaniline	ug/L				<8					
2-nitrophenol	ug/L				<8					
3,3'-dichlorobenzidine	ug/L				<8					
3,3'-dimethylbenzidine	ug/L				<8					
3-methylcholanthrene	ug/L				<8					
3-nitroaniline	ug/L				<8					
4,4'-ddd	ug/L				<.05					
4,4'-dde	ug/L				<.05					
4,4'-ddt	ug/L				<.05					
4,6-dinitro-2-methylphenol	ug/L				<8					
4-aminobiphenyl	ug/L				<8					
4-bromophenyl phenyl ether	ug/L				<8					
4-chloro-3-methylphenol	ug/L				<8					
4-chloroaniline	ug/L				<8					
4-chlorophenyl phenyl ether	ug/L				<8					
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	ug/L				<8					
4-nitrophenol	ug/L				<8					
5-nitro-o-toluidine	ug/L				<8					
7,12-dimethylbenz(a)anthracene	ug/L				<8					
Acenaphthene	ug/L				<8					
Acenaphthylene	ug/L				<8					
Acetone	ug/L	<10	<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
Aldrin	ug/L				<.05					
Allyl chloride	ug/L				<1					
Alpha-bhc	ug/L				<.05					
Anthracene	ug/L				<8					

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

Table 9

Analytical Data Summary for MW-20R

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022	8/30/2022	3/7/2023
(34) -methylphenol									
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene									
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene									
1,2,4-trichlorobenzene									
1,2-dibromo-3-chloropropane	<1	<1	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene									
1,3,5-trinitrobenzene									
1,3-dichlorobenzene									
1,3-dichloropropane									
1,3-dinitrobenzene									
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone									
1,4-phenylenediamine									
1-naphthylamine									
2,2-dichloropropane									
2,3,4,6-tetrachlorophenol									
2,4,5-t									
2,4,5-tp (silvex)									
2,4,5-trichlorophenol									
2,4,6-trichlorophenol									
2,4-d									
2,4-dichlorophenol									
2,4-dimethylphenol									
2,4-dinitrophenol									
2,4-dinitrotoluene									
2,6-dichlorophenol									
2,6-dinitrotoluene									
2-acetylaminofluorene									
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<10	<10	<10
2-chloronaphthalene									
2-chlorophenol									
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene									
2-methylphenol									
2-naphthylamine									
2-nitroaniline									
2-nitrophenol									
3,3'-dichlorobenzidine									
3,3'-dimethylbenzidine									
3-methylcholanthrene									
3-nitroaniline									
4,4'-ddd									
4,4'-dde									
4,4'-ddt									
4,6-dinitro-2-methylphenol									
4-aminobiphenyl									
4-bromophenyl phenyl ether									
4-chloro-3-methylphenol									
4-chloroaniline									
4-chlorophenyl phenyl ether									
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline									
4-nitrophenol									
5-nitro-o-toluidine									
7,12-dimethylbenz(a)anthracene									
Acenaphthene									
Acenaphthylene									
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin									
Allyl chloride									
Alpha-bhc									
Anthracene									

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

Table 9

Analytical Data Summary for MW-20R

Constituents	9/11/2023
(34) -methylphenol	
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-dichloroethylene	<1
1,1-dichloropropene	
1,2,3-trichloropropane	<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-dichloropropane	<1
1,2-dinitrobenzene	
1,3,5-trinitrobenzene	
1,3-dichlorobenzene	
1,3-dichloropropane	
1,3-dinitrobenzene	
1,4-dichlorobenzene	<1
1,4-naphthoquinone	
1,4-phenylenediamine	
1-naphthylamine	
2,2-dichloropropane	
2,3,4,6-tetrachlorophenol	
2,4,5-t	
2,4,5-tp (silvex)	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
2,4-d	
2,4-dichlorophenol	
2,4-dimethylphenol	
2,4-dinitrophenol	
2,4-dinitrotoluene	
2,6-dichlorophenol	
2,6-dinitrotoluene	
2-acetylaminofluorene	
2-butanone (mek)	<10
2-chloronaphthalene	
2-chlorophenol	
2-hexanone (mbk)	<5
2-methylnaphthalene	
2-methylphenol	
2-naphthylamine	
2-nitroaniline	
2-nitrophenol	
3,3'-dichlorobenzidine	
3,3'-dimethylbenzidine	
3-methylcholanthrene	
3-nitroaniline	
4,4'-ddd	
4,4'-dde	
4,4'-ddt	
4,6-dinitro-2-methylphenol	
4-aminobiphenyl	
4-bromophenyl phenyl ether	
4-chloro-3-methylphenol	
4-chloroaniline	
4-chlorophenyl phenyl ether	
4-methyl-2-pentanone (mibk)	<5
4-nitroaniline	
4-nitrophenol	
5-nitro-o-toluidine	
7,12-dimethylbenz(a)anthracene	
Acenaphthene	
Acenaphthylene	
Acetone	<10
Acetonitrile	
Acetophenone	
Acrolein	
Acrylonitrile	<5
Aldrin	
Allyl chloride	
Alpha-bhc	
Anthracene	

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

Table 9

Analytical Data Summary for MW-20R

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L				<.1					
Arochlor 1221	ug/L				<.2					
Arochlor 1232	ug/L				<.2					
Arochlor 1242	ug/L				<.2					
Arochlor 1248	ug/L				<.2					
Arochlor 1254	ug/L				<.1					
Arochlor 1260	ug/L				<.1					
Arsenic, total	ug/L	51.9	53.1	21.0	49.9	43.5	100.0	45.5	34.6	5.9
Azobenzene	ug/L				<8					
Barium, total	ug/L	806	939	664	928	841	1200	706	831	580
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene	ug/L				<8					
Benzo(a)pyrene	ug/L				<8					
Benzo(b)fluoranthene	ug/L				<8					
Benzo(g,h,i)perylene	ug/L				<8					
Benzo(k)fluoranthene	ug/L				<8					
Benzyl alcohol	ug/L				<8					
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc	ug/L				<.05					
Bis (2-chloroethoxy) methane	ug/L				<8					
Bis(2-chloroethyl) ether	ug/L				<8					
Bis(2-chloroisopropyl) ether	ug/L				<8					
Bis(2-ethylhexyl) phthalate	ug/L				25		<6	<6	<6	7
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	ug/L				<8					
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L				<.1					
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	ug/L				<8					
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene	ug/L				<1					
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene	ug/L				<8					
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	.9	1.1	1.3	1.2	1.3	1.4	.9	<2.0	<.8
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Cyanide, total	mg/L				<.005					
Delta-bhc	ug/L				<.05					
Diallate	ug/L				<8					
Dibenzo(a,h)anthracene	ug/L				<8					
Dibenzofuran	ug/L				<8					
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L				<1					
Dieldrin	ug/L				<.05					
Diethyl phthalate	ug/L				<8					
Dimethoate	ug/L				<.4					
Dimethylphthalate	ug/L				<8					
Di-n-butyl phthalate	ug/L				<8					
Di-n-octyl phthalate	ug/L				<8					
Dinoseb	ug/L				<.5					
Diphenylamine	ug/L				<8					
Disulfoton	ug/L				<.4					
Endosulfan i	ug/L				<.05					
Endosulfan ii	ug/L				<.05					
Endosulfan sulfate	ug/L				<.05					
Endrin	ug/L				<.05					
Endrin aldehyde	ug/L				<.05					
Ethyl methacrylate	ug/L				<10					
Ethyl methanesulfonate	ug/L				<8					
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L				<.4					
Fluoranthene	ug/L				<8					
Fluorene	ug/L				<8					
Gamma-bhc (lindane)	ug/L				<.05					
Heptachlor	ug/L				<.05					
Heptachlor epoxide	ug/L				<.05					
Hexachlorobenzene	ug/L				<.05					

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

Table 9

Analytical Data Summary for MW-20R

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022	8/30/2022	3/7/2023
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016									
Arochlor 1221									
Arochlor 1232									
Arochlor 1242									
Arochlor 1248									
Arochlor 1254									
Arochlor 1260									
Arsenic, total	31.7	37.1	29.5	49.0	77.1	49.1	52.0	49.0	43.0
Azobenzene									
Barium, total	851	954	701	755	994	620	691	599	599
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene									
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(g,h,i)perylene									
Benzo(k)fluoranthene									
Benzyl alcohol									
Beryllium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc									
Bis (2-chloroethoxy) methane									
Bis(2-chloroethyl) ether									
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl) phthalate									
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate									
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane									
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate									
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene									
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene									
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	1.0	.9	1.0	.7	.4	.7	.7	1.0	.5
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Cyanide, total									
Delta-bhc									
Diallate									
Dibenzo(a,h)anthracene									
Dibenzofuran									
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethylphthalate									
Di-n-butyl phthalate									
Di-n-octyl phthalate									
Dinoseb									
Diphenylamine									
Disulfoton									
Endosulfan i									
Endosulfan ii									
Endosulfan sulfate									
Endrin									
Endrin aldehyde									
Ethyl methacrylate									
Ethyl methanesulfonate									
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur									
Fluoranthene									
Fluorene									
Gamma-bhc (lindane)									
Heptachlor									
Heptachlor epoxide									
Hexachlorobenzene									

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

Table 9

Analytical Data Summary for MW-20R

Constituents	9/11/2023
Antimony, total	<2
Arochlor 1016	
Arochlor 1221	
Arochlor 1232	
Arochlor 1242	
Arochlor 1248	
Arochlor 1254	
Arochlor 1260	
Arsenic, total	41.8
Azobenzene	
Barium, total	650
Benzene	<1
Benzo(a)anthracene	
Benzo(a)pyrene	
Benzo(b)fluoranthene	
Benzo(g,h,i)perylene	
Benzo(k)fluoranthene	
Benzyl alcohol	
Beryllium, total	<4
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, total	<.8
Carbon disulfide	<1
Carbon tetrachloride	<1
Chlordane	
Chlorobenzene	<1
Chlorobenzilate	
Chloroethane	<1
Chloroform	<1
Chloromethane	<1
Chloroprene	
Chromium, total	<8
Chrysene	
Cis-1,2-dichloroethylene	<1
Cis-1,3-dichloropropene	<1
Cobalt, total	.4
Copper, total	<4
Cyanide, total	
Delta-bhc	
Diallate	
Dibenzo(a,h)anthracene	
Dibenzofuran	
Dibromochloromethane	<1
Dibromomethane	<1
Dichlorodifluoromethane	
Dieldrin	
Diethyl phthalate	
Dimethoate	
Dimethylphthalate	
Di-n-butyl phthalate	
Di-n-octyl phthalate	
Dinoseb	
Diphenylamine	
Disulfoton	
Endosulfan i	
Endosulfan ii	
Endosulfan sulfate	
Endrin	
Endrin aldehyde	
Ethyl methacrylate	
Ethyl methanesulfonate	
Ethylbenzene	<1
Famphur	
Fluoranthene	
Fluorene	
Gamma-bhc (lindane)	
Heptachlor	
Heptachlor epoxide	
Hexachlorobenzene	

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

Table 9

Analytical Data Summary for MW-20R

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
Hexachlorobutadiene	ug/L				<8					
Hexachlorocyclopentadiene	ug/L				<8					
Hexachloroethane	ug/L				<8					
Hexachloropropene	ug/L				<8					
Indeno(1,2,3-cd)pyrene	ug/L				<8					
Isobutanol	ug/L				<1000					
Isodrin	ug/L				<8					
Isophorone	ug/L				<8					
Isosafrole	ug/L				<8					
Kepone	ug/L				<8					
Lead, total	ug/L	<4.0	<4.0	<4.0	4.1	<4.0	<4.0	<4.0	<4.0	<4.0
Mercury, total	ug/L				<.5					
Methacrylonitrile	ug/L				<1					
Methapyrilene	ug/L				<8					
Methoxychlor	ug/L				<.05					
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate	ug/L				<1					
Methyl methanesulfonate	ug/L				<8					
Methyl parathion	ug/L				<.4					
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L				<8					
Nickel, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<20	<4
Nitrobenzene	ug/L				<8					
N-nitrosodiethylamine	ug/L				<8					
N-nitrosodimethylamine	ug/L				<8					
N-nitrosodi-n-butylamine	ug/L				<8					
N-nitroso-di-n-propylamine	ug/L				<8					
N-nitrosodiphenylamine	ug/L				<8					
N-nitrosomethylethylamine	ug/L				<8					
N-nitrosopiperidine	ug/L				<8					
N-nitrosopyrrolidine	ug/L				<8					
O,o,o-triethyl phosphorothioate	ug/L				<.4					
O-toluidine	ug/L				<8					
Parathion	ug/L				<.4					
P-dimethylaminoazobenzene	ug/L				<8					
Pentachlorobenzene	ug/L				<8					
Pentachloronitrobenzene (pcnb)	ug/L				<8					
Pentachlorophenol	ug/L				<8					
Phenacetin	ug/L				<8					
Phenanthrene	ug/L				<8					
Phenol	ug/L				<8					
Phorate	ug/L				<.4					
Pronamide	ug/L				<8					
Propionitrile	ug/L				<40					
Pyrene	ug/L				<8					
Safrole	ug/L				<8					
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L	115	137	106	139	147	413	226		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L				<.1					
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4	<4	<1	<4	<4	<4	<4	<4	<4
Thionazin	ug/L				<.4					
Tin, total	ug/L				<20					
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L				<.2					
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<20.0	<8.0	10.8	8.4	9.6	<8.0	<8.0	<8.0	115.0

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

Table 9

Analytical Data Summary for MW-20R

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022	8/30/2022	3/7/2023
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno(1,2,3-cd)pyrene									
Isobutanol									
Isodrin									
Isophorone									
Isosafrole									
Kepona									
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Mercury, total									
Methacrylonitrile									
Methapyrilene									
Methoxychlor									
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate									
Methyl methanesulfonate									
Methyl parathion									
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene									
Nickel, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Nitrobenzene									
N-nitrosodiethylamine									
N-nitrosodimethylamine									
N-nitrosodi-n-butylamine									
N-nitroso-di-n-propylamine									
N-nitrosodiphenylamine									
N-nitrosomethylethylamine									
N-nitrosopiperidine									
N-nitrosopyrrolidine									
O,o,o-triethyl phosphorothioate									
O-toluidine									
Parathion									
P-dimethylaminoazobenzene									
Pentachlorobenzene									
Pentachloronitrobenzene (pcnb)									
Pentachlorophenol									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Pronamide									
Propionitrile									
Pyrene									
Safrole									
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total									
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Thionazin									
Tin, total									
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene									
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	14.5	18.1	<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-20R

Constituents	9/11/2023
Hexachlorobutadiene	
Hexachlorocyclopentadiene	
Hexachloroethane	
Hexachloropropene	
Indeno(1,2,3-cd)pyrene	
Isobutanol	
Isodrin	
Isophorone	
Isosafrole	
Kepon	
Lead, total	<4.0
Mercury, total	
Methacrylonitrile	
Methapyrilene	
Methoxychlor	
Methyl iodide	<1
Methyl methacrylate	
Methyl methanesulfonate	
Methyl parathion	
Methylene chloride	<5
Naphthalene	
Nickel, total	<4
Nitrobenzene	
N-nitrosodiethylamine	
N-nitrosodimethylamine	
N-nitrosodi-n-butylamine	
N-nitroso-di-n-propylamine	
N-nitrosodiphenylamine	
N-nitrosomethylethylamine	
N-nitrosopiperidine	
N-nitrosopyrrolidine	
O,o,o-triethyl phosphorothioate	
O-toluidine	
Parathion	
P-dimethylaminoazobenzene	
Pentachlorobenzene	
Pentachloronitrobenzene (pcnb)	
Pentachlorophenol	
Phenacetin	
Phenanthrene	
Phenol	
Phorate	
Pronamide	
Propionitrile	
Pyrene	
Safrole	
Selenium, total	<4
Silver, total	<4
Solids, total suspended	
Styrene	<1
Sulfide, total	
Tetrachloroethylene	<1
Thallium, total	<2
Thionazin	
Tin, total	
Toluene	<1
Toxaphene	
Trans-1,2-dichloroethylene	<1
Trans-1,3-dichloropropene	<1
Trans-1,4-dichloro-2-butene	<5
Trichloroethylene	<1
Trichlorofluoromethane	<1
Vanadium, total	<20
Vinyl acetate	<5
Vinyl chloride	<1
Xylenes, total	<2
Zinc, total	<20.0

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

Table 9

Analytical Data Summary for MW-21

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
(3 4)-Methylphenol	ug/L									
(34) -methylphenol	ug/L				<8					
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L				<1					
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L				<8					
1,2,4-trichlorobenzene	ug/L				<1					
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene	ug/L				<8					
1,3,5-trinitrobenzene	ug/L				<8					
1,3-dichlorobenzene	ug/L				<1					
1,3-dichloropropane	ug/L				<1					
1,3-dinitrobenzene	ug/L				<8					
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L				<8					
1,4-phenylenediamine	ug/L				<8					
1-naphthylamine	ug/L				<8					
2,2-dichloropropane	ug/L				<1					
2,3,4,6-tetrachlorophenol	ug/L				<8					
2,4,5-t	ug/L				<.5					
2,4,5-tp (silvex)	ug/L				<.5					
2,4,5-trichlorophenol	ug/L				<8					
2,4,6-trichlorophenol	ug/L				<8					
2,4-d	ug/L				<2					
2,4-dichlorophenol	ug/L				<8					
2,4-dimethylphenol	ug/L				<8					
2,4-dinitrophenol	ug/L				<8					
2,4-dinitrotoluene	ug/L				<8					
2,6-dichlorophenol	ug/L				<8					
2,6-dinitrotoluene	ug/L				<8					
2-acetylaminofluorene	ug/L				<8					
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene	ug/L				<8					
2-chlorophenol	ug/L				<8					
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L				<8					
2-methylphenol	ug/L				<8					
2-naphthylamine	ug/L				<8					
2-nitroaniline	ug/L				<8					
2-nitrophenol	ug/L				<8					
3,3'-dichlorobenzidine	ug/L				<8					
3,3'-dimethylbenzidine	ug/L				<8					
3-methylcholanthrene	ug/L				<8					
3-nitroaniline	ug/L				<8					
4,4'-ddd	ug/L				<.05					
4,4'-dde	ug/L				<.05					
4,4'-ddt	ug/L				<.05					
4,6-dinitro-2-methylphenol	ug/L				<8					
4-aminobiphenyl	ug/L				<8					
4-bromophenyl phenyl ether	ug/L				<8					
4-chloro-3-methylphenol	ug/L				<8					
4-chloroaniline	ug/L				<8					
4-chlorophenyl phenyl ether	ug/L				<8					
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	ug/L				<8					
4-nitrophenol	ug/L				<8					
5-nitro-o-toluidine	ug/L				<8					
7,12-dimethylbenz(a)anthracene	ug/L				<8					
Acenaphthene	ug/L				<8					
Acenaphthylene	ug/L				<8					
Acetone	ug/L	<10	<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
Aldrin	ug/L				<.05					
Allyl chloride	ug/L				<1					
Alpha-bhc	ug/L				<.05					

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

Table 9

Analytical Data Summary for MW-21

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022	8/30/2022	3/7/2023
(3 4)-Methylphenol					<21				
(34) -methylphenol									
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene					<1				
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene					<21				
1,2,4-trichlorobenzene					<1				
1,2-dibromo-3-chloropropane	<1	<1	<5	<5	<1	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene					<21				
1,3,5-trinitrobenzene					<21				
1,3-dichlorobenzene					<1				
1,3-dichloropropane					<1				
1,3-dinitrobenzene					<21				
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone					<21				
1,4-phenylenediamine					<21				
1-naphthylamine					<21				
2,2-dichloropropane					<1				
2,3,4,6-tetrachlorophenol					<21				
2,4,5-t					<.5				
2,4,5-tp (silvex)					<.5				
2,4,5-trichlorophenol					<21				
2,4,6-trichlorophenol					<21				
2,4-d					<2				
2,4-dichlorophenol					<21				
2,4-dimethylphenol					<21				
2,4-dinitrophenol					<21				
2,4-dinitrotoluene					<21				
2,6-dichlorophenol					<21				
2,6-dinitrotoluene					<21				
2-acetylaminofluorene					<21				
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<10	<10	<10
2-chloronaphthalene					<21				
2-chlorophenol					<21				
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene					<21				
2-methylphenol					<21				
2-naphthylamine					<21				
2-nitroaniline					<21				
2-nitrophenol					<21				
3,3'-dichlorobenzidine					<21				
3,3'-dimethylbenzidine					<21				
3-methylcholanthrene					<21				
3-nitroaniline					<21				
4,4'-ddd					<.05				
4,4'-dde					<.05				
4,4'-ddt					<.05				
4,6-dinitro-2-methylphenol					<21				
4-aminobiphenyl					<21				
4-bromophenyl phenyl ether					<21				
4-chloro-3-methylphenol					<21				
4-chloroaniline					<21				
4-chlorophenyl phenyl ether					<21				
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline					<21				
4-nitrophenol					<21				
5-nitro-o-toluidine					<21				
7,12-dimethylbenz(a)anthracene					<21				
Acenaphthene					<21				
Acenaphthylene					<21				
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile					<10				
Acetophenone					<21				
Acrolein					<10				
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin					<.05				
Allyl chloride					<1				
Alpha-bhc					<.05				

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

Table 9

Analytical Data Summary for MW-21

Constituents	9/11/2023
(3 4)-Methylphenol	
(34) -methylphenol	
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-dichloroethylene	<1
1,1-dichloropropene	
1,2,3-trichloropropane	<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-dichloropropane	<1
1,2-dinitrobenzene	
1,3,5-trinitrobenzene	
1,3-dichlorobenzene	
1,3-dichloropropane	
1,3-dinitrobenzene	
1,4-dichlorobenzene	<1
1,4-naphthoquinone	
1,4-phenylenediamine	
1-naphthylamine	
2,2-dichloropropane	
2,3,4,6-tetrachlorophenol	
2,4,5-t	
2,4,5-tp (silvex)	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
2,4-d	
2,4-dichlorophenol	
2,4-dimethylphenol	
2,4-dinitrophenol	
2,4-dinitrotoluene	
2,6-dichlorophenol	
2,6-dinitrotoluene	
2-acetylaminofluorene	
2-butanone (mek)	<10
2-chloronaphthalene	
2-chlorophenol	
2-hexanone (mbk)	<5
2-methylnaphthalene	
2-methylphenol	
2-naphthylamine	
2-nitroaniline	
2-nitrophenol	
3,3'-dichlorobenzidine	
3,3'-dimethylbenzidine	
3-methylcholanthrene	
3-nitroaniline	
4,4'-ddd	
4,4'-dde	
4,4'-ddt	
4,6-dinitro-2-methylphenol	
4-aminobiphenyl	
4-bromophenyl phenyl ether	
4-chloro-3-methylphenol	
4-chloroaniline	
4-chlorophenyl phenyl ether	
4-methyl-2-pentanone (mibk)	<5
4-nitroaniline	
4-nitrophenol	
5-nitro-o-toluidine	
7,12-dimethylbenz(a)anthracene	
Acenaphthene	
Acenaphthylene	
Acetone	<10
Acetonitrile	
Acetophenone	
Acrolein	
Acrylonitrile	<5
Aldrin	
Allyl chloride	
Alpha-bhc	

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

Table 9

Analytical Data Summary for MW-21

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
Anthracene	ug/L				<8					
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L				<.1					
Arochlor 1221	ug/L				<.2					
Arochlor 1232	ug/L				<.2					
Arochlor 1242	ug/L				<.2					
Arochlor 1248	ug/L				<.2					
Arochlor 1254	ug/L				<.1					
Arochlor 1260	ug/L				<.1					
Arsenic, total	ug/L	6.2	7.8	<4.0	7.2	4.2	5.8	<4.0	6.7	<4.0
Azobenzene	ug/L				<8					
Barium, total	ug/L	354	461	451	392	630	806	472	875	598
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene	ug/L				<8					
Benzo(a)pyrene	ug/L				<8					
Benzo(b)fluoranthene	ug/L				<8					
Benzo(g,h,i)perylene	ug/L				<8					
Benzo(k)fluoranthene	ug/L				<8					
Benzyl alcohol	ug/L				<8					
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc	ug/L				<.05					
Bis (2-chloroethoxy) methane	ug/L				<8					
Bis(2-chloroethyl) ether	ug/L				<8					
Bis(2-chloroisopropyl) ether	ug/L				<8					
Bis(2-ethylhexyl) phthalate	ug/L				<8					
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	ug/L				<8					
Cadmium, total	ug/L	<.8	<.8	.8	<.8	<.8	1.8	<.8	<.8	1.0
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L				<.1					
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	ug/L				<8					
Chloroethane	ug/L	1.4	1.1	1.7	2.4	1.4	2.6	1.0	<1.0	1.6
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene	ug/L				<1					
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene	ug/L				<8					
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	5.3	5.9	<.8	7.0	<.8	1.1	<.8	<2.0	<.8
Copper, total	ug/L	4.1	4.9	<4.0	5.6	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total	mg/L				<.005					
Delta-bhc	ug/L				<.05					
Diallate	ug/L				<8					
Dibenzo(a,h)anthracene	ug/L				<8					
Dibenzofuran	ug/L				<8					
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L				1					
Dieldrin	ug/L				<.05					
Diethyl phthalate	ug/L				<8					
Dimethoate	ug/L				<.4					
Dimethylphthalate	ug/L				<8					
Di-n-butyl phthalate	ug/L				<8					
Di-n-octyl phthalate	ug/L				<.5					
Dinoseb	ug/L				<.8					
Diphenylamine	ug/L				<8					
Disulfoton	ug/L				<.4					
Endosulfan i	ug/L				<.05					
Endosulfan ii	ug/L				<.05					
Endosulfan sulfate	ug/L				<.05					
Endrin	ug/L				<.05					
Endrin aldehyde	ug/L				<.05					
Ethyl methacrylate	ug/L				<10					
Ethyl methanesulfonate	ug/L				<8					
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L				<.4					
Fluoranthene	ug/L				<8					
Fluorene	ug/L				<8					
Gamma-bhc (lindane)	ug/L				<.05					
Heptachlor	ug/L				<.05					
Heptachlor epoxide	ug/L				<.05					

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

Table 9

Analytical Data Summary for MW-21

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022	8/30/2022	3/7/2023
Anthracene					<21				
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016					<.1				
Arochlor 1221					<.2				
Arochlor 1232					<.2				
Arochlor 1242					<.2				
Arochlor 1248					<.2				
Arochlor 1254					<.1				
Arochlor 1260					<.1				
Arsenic, total	9.7	<4.0	10.1	<4.0	8.1	<4.0	10.5	<4.0	30.5
Azobenzene					<21				
Barium, total	1420	307	1730	469	1020	498	803	450	1420
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene					<21				
Benzo(a)pyrene					<21				
Benzo(b)fluoranthene					<21				
Benzo(g,h,i)perylene					<21				
Benzo(k)fluoranthene					<21				
Benzyl alcohol					<21				
Beryllium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc					<.05				
Bis (2-chloroethoxy) methane					<21				
Bis(2-chloroethyl) ether					<21				
Bis(2-chloroisopropyl) ether					<21				
Bis(2-ethylhexyl) phthalate					<15				
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate					<21				
Cadmium, total	.9	<.8	<.8	.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane					<.1				
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate					<21				
Chloroethane	1.8	1.7	1.2	<1.0	1.3	<1.0	1.0	<1.0	1.4
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene					<1				
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene					<21				
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	.4	.4	.4	.6	.4	.9
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total					<.005				
Delta-bhc					<.05				
Diallate					<21				
Dibenzo(a,h)anthracene					<21				
Dibenzofuran					<21				
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane					<1				
Dieldrin					<.05				
Diethyl phthalate					<21				
Dimethoate					<.7				
Dimethylphthalate					<21				
Di-n-butyl phthalate					<21				
Di-n-octyl phthalate					<21				
Dinoseb					<.5				
Diphenylamine					<21				
Disulfoton					<.7				
Endosulfan i					<.05				
Endosulfan ii					<.05				
Endosulfan sulfate					<.05				
Endrin					<.05				
Endrin aldehyde					<.05				
Ethyl methacrylate					<10				
Ethyl methanesulfonate					<21				
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur					<.7				
Fluoranthene					<21				
Fluorene					<21				
Gamma-bhc (lindane)					<.05				
Heptachlor					<.05				
Heptachlor epoxide					<.05				

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

Table 9

Analytical Data Summary for MW-21

Constituents	9/11/2023
Anthracene	
Antimony, total	<2
Arochlor 1016	
Arochlor 1221	
Arochlor 1232	
Arochlor 1242	
Arochlor 1248	
Arochlor 1254	
Arochlor 1260	
Arsenic, total	<4.0
Azobenzene	
Barium, total	465
Benzene	<1
Benzo(a)anthracene	
Benzo(a)pyrene	
Benzo(b)fluoranthene	
Benzo(g,h,i)perylene	
Benzo(k)fluoranthene	
Benzyl alcohol	
Beryllium, total	<4
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, total	<.8
Carbon disulfide	<1
Carbon tetrachloride	<1
Chlordane	
Chlorobenzene	<1
Chlorobenzilate	
Chloroethane	<1.0
Chloroform	<1
Chloromethane	<1
Chloroprene	
Chromium, total	<8
Chrysene	
Cis-1,2-dichloroethylene	<1
Cis-1,3-dichloropropene	<1
Cobalt, total	.4
Copper, total	<4.0
Cyanide, total	
Delta-bhc	
Diallate	
Dibenzo(a,h)anthracene	
Dibenzofuran	
Dibromochloromethane	<1
Dibromomethane	<1
Dichlorodifluoromethane	
Dieldrin	
Diethyl phthalate	
Dimethoate	
Dimethylphthalate	
Di-n-butyl phthalate	
Di-n-octyl phthalate	
Dinoseb	
Diphenylamine	
Disulfoton	
Endosulfan i	
Endosulfan ii	
Endosulfan sulfate	
Endrin	
Endrin aldehyde	
Ethyl methacrylate	
Ethyl methanesulfonate	
Ethylbenzene	<1
Famphur	
Fluoranthene	
Fluorene	
Gamma-bhc (lindane)	
Heptachlor	
Heptachlor epoxide	

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

Table 9

Analytical Data Summary for MW-21

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
Hexachlorobenzene	ug/L				<.05					
Hexachlorobutadiene	ug/L				<.8					
Hexachlorocyclopentadiene	ug/L				<.8					
Hexachloroethane	ug/L				<.8					
Hexachloropropene	ug/L				<.8					
Indeno(1,2,3-cd)pyrene	ug/L				<.8					
Isobutanol	ug/L				<1000					
Isodrin	ug/L				<.8					
Isophorone	ug/L				<.8					
Isosafrole	ug/L				<.8					
Kepone	ug/L				<.8					
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total	ug/L				<.5					
Methacrylonitrile	ug/L				<1					
Methapyrilene	ug/L				<.8					
Methoxychlor	ug/L				<.05					
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate	ug/L				<1					
Methyl methanesulfonate	ug/L				<.8					
Methyl parathion	ug/L				<.4					
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L				<.8					
Nickel, total	ug/L	12.5	15.1	<4.0	17.3	<4.0	7.5	4.3	<20.0	5.7
Nitrobenzene	ug/L				<.8					
N-nitrosodiethylamine	ug/L				<.8					
N-nitrosodimethylamine	ug/L				<.8					
N-nitrosodi-n-butylamine	ug/L				<.8					
N-nitroso-di-n-propylamine	ug/L				<.8					
N-nitrosodiphenylamine	ug/L				<.8					
N-nitrosomethylethylamine	ug/L				<.8					
N-nitrosopiperidine	ug/L				<.8					
N-nitrosopyrrolidine	ug/L				<.8					
O,o,o-triethyl phosphorothioate	ug/L				<.4					
O-toluidine	ug/L				<.8					
Parathion	ug/L				<.4					
P-dimethylaminoazobenzene	ug/L				<.8					
Pentachlorobenzene	ug/L				<.8					
Pentachloronitrobenzene (pcnb)	ug/L				<.8					
Pentachlorophenol	ug/L				<.8					
Phenacetin	ug/L				<.8					
Phenanthrene	ug/L				<.8					
Phenol	ug/L				<.8					
Phorate	ug/L				<.4					
Pronamide	ug/L				<.8					
Propionitrile	ug/L				<40					
Pyrene	ug/L				<.8					
Safrole	ug/L				<.8					
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L	198	254	108	251	142	950	238		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L				<.1					
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4	<4	<1	<4	<4	<4	<4	<4	<4
Thionazin	ug/L				<.4					
Tin, total	ug/L				<20					
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L				<.2					
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<20.0	18.0	<8.0	23.5	<8.0	8.3	<8.0	<8.0	38.3

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

Table 9

Analytical Data Summary for MW-21

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022	8/30/2022	3/7/2023
Hexachlorobenzene					<.05				
Hexachlorobutadiene					<21				
Hexachlorocyclopentadiene					<21				
Hexachloroethane					<21				
Hexachloropropene					<21				
Indeno(1,2,3-cd)pyrene					<21				
Isobutanol					<1000				
Isodrin					<21				
Isophorone					<21				
Isosafrole					<21				
Kepone					<21				
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total					<.5				
Methacrylonitrile					<1				
Methapyrilene					<21				
Methoxychlor					<.05				
Methyl iodide	<1	<1	<1	<1	<2	<1	<1	<1	<1
Methyl methacrylate					<1				
Methyl methanesulfonate					<21				
Methyl parathion					<.7				
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene					<21				
Nickel, total	5.7	<4.0	6.3	5.8	5.6	5.4	5.7	6.1	6.8
Nitrobenzene					<21				
N-nitrosodiethylamine					<21				
N-nitrosodimethylamine					<21				
N-nitrosodi-n-butylamine					<21				
N-nitroso-di-n-propylamine					<21				
N-nitrosodiphenylamine					<21				
N-nitrosomethylethylamine					<21				
N-nitrosopiperidine					<21				
N-nitrosopyrrolidine					<21				
O,o,o-triethyl phosphorothioate					<.7				
O-toluidine					<21				
Parathion					<.7				
P-dimethylaminoazobenzene					<21				
Pentachlorobenzene					<21				
Pentachloronitrobenzene (pcnb)					<21				
Pentachlorophenol					<21				
Phenacetin					<21				
Phenanthrene					<21				
Phenol					<21				
Phorate					<.7				
Pronamide					<21				
Propionitrile					<10				
Pyrene					<21				
Safrole					<21				
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total					<.1				
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Thionazin					<.7				
Tin, total					<20				
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene					<.2				
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	14.3	<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-21

Constituents	9/11/2023
Hexachlorobenzene	
Hexachlorobutadiene	
Hexachlorocyclopentadiene	
Hexachloroethane	
Hexachloropropene	
Indeno(1,2,3-cd)pyrene	
Isobutanol	
Isodrin	
Isophorone	
Isosafrole	
Kepone	
Lead, total	<4
Mercury, total	
Methacrylonitrile	
Methapyrilene	
Methoxychlor	
Methyl iodide	<1
Methyl methacrylate	
Methyl methanesulfonate	
Methyl parathion	
Methylene chloride	<5
Naphthalene	
Nickel, total	5.3
Nitrobenzene	
N-nitrosodiethylamine	
N-nitrosodimethylamine	
N-nitrosodi-n-butylamine	
N-nitroso-di-n-propylamine	
N-nitrosodiphenylamine	
N-nitrosomethylethylamine	
N-nitrosopiperidine	
N-nitrosopyrrolidine	
O,o,o-triethyl phosphorothioate	
O-toluidine	
Parathion	
P-dimethylaminoazobenzene	
Pentachlorobenzene	
Pentachloronitrobenzene (pcnb)	
Pentachlorophenol	
Phenacetin	
Phenanthrene	
Phenol	
Phorate	
Pronamide	
Propionitrile	
Pyrene	
Safrole	
Selenium, total	<4
Silver, total	<4
Solids, total suspended	
Styrene	<1
Sulfide, total	
Tetrachloroethylene	<1
Thallium, total	<2
Thionazin	
Tin, total	
Toluene	<1
Toxaphene	
Trans-1,2-dichloroethylene	<1
Trans-1,3-dichloropropene	<1
Trans-1,4-dichloro-2-butene	<5
Trichloroethylene	<1
Trichlorofluoromethane	<1
Vanadium, total	<20
Vinyl acetate	<5
Vinyl chloride	<1
Xylenes, total	<2
Zinc, total	<20.0

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

Table 9

Analytical Data Summary for MW-22

Constituents	Units	10/15/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
(3 4)-Methylphenol	ug/L									
(34) -methylphenol	ug/L				<8					
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L				<1					
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L				<8					
1,2,4-trichlorobenzene	ug/L				<1					
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene	ug/L				<8					
1,3,5-trinitrobenzene	ug/L				<8					
1,3-dichlorobenzene	ug/L				<1					
1,3-dichloropropane	ug/L				<1					
1,3-dinitrobenzene	ug/L				<8					
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L				<8					
1,4-phenylenediamine	ug/L				<8					
1-naphthylamine	ug/L				<8					
2,2-dichloropropane	ug/L				<1					
2,3,4,6-tetrachlorophenol	ug/L				<8					
2,4,5-t	ug/L				<.5					
2,4,5-tp (silvex)	ug/L				<.5					
2,4,5-trichlorophenol	ug/L				<8					
2,4,6-trichlorophenol	ug/L				<8					
2,4-d	ug/L				<2					
2,4-dichlorophenol	ug/L				<8					
2,4-dimethylphenol	ug/L				<8					
2,4-dinitrophenol	ug/L				<8					
2,4-dinitrotoluene	ug/L				<8					
2,6-dichlorophenol	ug/L				<8					
2,6-dinitrotoluene	ug/L				<8					
2-acetylaminofluorene	ug/L				<8					
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene	ug/L				<8					
2-chlorophenol	ug/L				<8					
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L				<8					
2-methylphenol	ug/L				<8					
2-naphthylamine	ug/L				<8					
2-nitroaniline	ug/L				<8					
2-nitrophenol	ug/L				<8					
3,3'-dichlorobenzidine	ug/L				<8					
3,3'-dimethylbenzidine	ug/L				<8					
3-methylcholanthrene	ug/L				<8					
3-nitroaniline	ug/L				<8					
4,4'-ddd	ug/L				<.05					
4,4'-dde	ug/L				<.05					
4,4'-ddt	ug/L				<.05					
4,6-dinitro-2-methylphenol	ug/L				<8					
4-aminobiphenyl	ug/L				<8					
4-bromophenyl phenyl ether	ug/L				<8					
4-chloro-3-methylphenol	ug/L				<8					
4-chloroaniline	ug/L				<8					
4-chlorophenyl phenyl ether	ug/L				<8					
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	ug/L				<8					
4-nitrophenol	ug/L				<8					
5-nitro-o-toluidine	ug/L				<8					
7,12-dimethylbenz(a)anthracene	ug/L				<8					
Acenaphthene	ug/L				<8					
Acenaphthylene	ug/L				<8					
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	14.6	<10.0	<10.0
Acetonitrile	ug/L				<10					
Acetophenone	ug/L				<8					
Acrolein	ug/L				<10					
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin	ug/L				<.05					
Allyl chloride	ug/L				<1					
Alpha-bhc	ug/L				<.05					

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

Table 9

Analytical Data Summary for MW-22

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	3/8/2022	8/30/2022	3/7/2023
(3 4)-Methylphenol					<8			
(34) -methylphenol					<1			
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene					<1			
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene					<8			
1,2,4-trichlorobenzene					<1			
1,2-dibromo-3-chloropropane	<1	<1	<5	<5	<1	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene					<8			
1,3,5-trinitrobenzene					<8			
1,3-dichlorobenzene					<1			
1,3-dichloropropane					<1			
1,3-dinitrobenzene					<8			
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone					<8			
1,4-phenylenediamine					<8			
1-naphthylamine					<8			
2,2-dichloropropane					<1			
2,3,4,6-tetrachlorophenol					<8			
2,4,5-t					<.5			
2,4,5-tp (silvex)					<.5			
2,4,5-trichlorophenol					<8			
2,4,6-trichlorophenol					<8			
2,4-d					<2			
2,4-dichlorophenol					<8			
2,4-dimethylphenol					<8			
2,4-dinitrophenol					<8			
2,4-dinitrotoluene					<8			
2,6-dichlorophenol					<8			
2,6-dinitrotoluene					<8			
2-acetylaminofluorene					<8			
2-butanone (mek)	<5	<5	<5	<5	<5	<10	<10	<10
2-chloronaphthalene					<8			
2-chlorophenol					<8			
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene					<8			
2-methylphenol					<8			
2-naphthylamine					<8			
2-nitroaniline					<8			
2-nitrophenol					<8			
3,3'-dichlorobenzidine					<8			
3,3'-dimethylbenzidine					<8			
3-methylcholanthrene					<8			
3-nitroaniline					<8			
4,4'-ddd					<.05			
4,4'-dde					<.05			
4,4'-ddt					<.05			
4,6-dinitro-2-methylphenol					<8			
4-aminobiphenyl					<8			
4-bromophenyl phenyl ether					<8			
4-chloro-3-methylphenol					<8			
4-chloroaniline					<8			
4-chlorophenyl phenyl ether					<8			
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline					<8			
4-nitrophenol					<8			
5-nitro-o-toluidine					<8			
7,12-dimethylbenz(a)anthracene					<8			
Acenaphthene					<8			
Acenaphthylene					<8			
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile					<10			
Acetophenone					<8			
Acrolein					<10			
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin					<.05			
Allyl chloride					<1			
Alpha-bhc					<.05			

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

Table 9

Analytical Data Summary for MW-22

Constituents	Units	10/15/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
Anthracene	ug/L				<8					
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L				<.1					
Arochlor 1221	ug/L				<.2					
Arochlor 1232	ug/L				<.2					
Arochlor 1242	ug/L				<.2					
Arochlor 1248	ug/L				<.2					
Arochlor 1254	ug/L				<.1					
Arochlor 1260	ug/L				<.1					
Arsenic, total	ug/L	15.9	398.0	138.0	34.5	18.5	86.7	19.3	82.8	77.6
Azobenzene	ug/L				<8					
Barium, total	ug/L	353	426	441	383	295	325	294	287	278
Benzene	ug/L	<1.0	1.6	<1.0	<1.0	<1.0	1.7	<1.0	2.3	1.5
Benzo(a)anthracene	ug/L				<8					
Benzo(a)pyrene	ug/L				<8					
Benzo(b)fluoranthene	ug/L				<8					
Benzo(g,h,i)perylene	ug/L				<8					
Benzo(k)fluoranthene	ug/L				<8					
Benzyl alcohol	ug/L				<8					
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc	ug/L				<.05					
Bis (2-chloroethoxy) methane	ug/L				<8					
Bis(2-chloroethyl) ether	ug/L				<8					
Bis(2-chloroisopropyl) ether	ug/L				<8					
Bis(2-ethylhexyl) phthalate	ug/L				<8					
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Butyl benzyl phthalate	ug/L				<8					
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	.8	1.2	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L				<1					
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	ug/L				<8					
Chloroethane	ug/L	1.0	1.1	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene	ug/L				<1					
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene	ug/L				<8					
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	4.0	5.0	4.5	5.1	4.4	3.5	4.0	2.6	2.2
Copper, total	ug/L	<4	4	<4	<4	<4	<4	<4	<4	<4
Cyanide, total	mg/L				<.005					
Delta-bhc	ug/L				<.05					
Diallate	ug/L				<8					
Dibenzo(a,h)anthracene	ug/L				<8					
Dibenzofuran	ug/L				<8					
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L				<1					
Dieldrin	ug/L				<.05					
Diethyl phthalate	ug/L				<8					
Dimethoate	ug/L				<.4					
Dimethylphthalate	ug/L				<8					
Di-n-butyl phthalate	ug/L				<8					
Di-n-octyl phthalate	ug/L				<8					
Dinoseb	ug/L				<.5					
Diphenylamine	ug/L				<8					
Disulfoton	ug/L				<.4					
Endosulfan i	ug/L				<.05					
Endosulfan ii	ug/L				<.05					
Endosulfan sulfate	ug/L				<.05					
Endrin	ug/L				<.05					
Endrin aldehyde	ug/L				<.05					
Ethyl methacrylate	ug/L				<10					
Ethyl methanesulfonate	ug/L				<8					
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L				<.4					
Fluoranthene	ug/L				<8					
Fluorene	ug/L				<8					
Gamma-bhc (lindane)	ug/L				<.05					
Heptachlor	ug/L				<.05					
Heptachlor epoxide	ug/L				<.05					

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

Table 9

Analytical Data Summary for MW-22

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	3/8/2022	8/30/2022	3/7/2023
Anthracene					<8			
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016					<.1			
Arochlor 1221					<.2			
Arochlor 1232					<.2			
Arochlor 1242					<.2			
Arochlor 1248					<.2			
Arochlor 1254					<.1			
Arochlor 1260					<.1			
Arsenic, total	86.4	76.3	77.3	68.7	82.7	65.2	36.0	95.5
Azobenzene					<8			
Barium, total	329	302	296	351	298	452	307	367
Benzene	2.2	2.3	2.4	1.5	1.4	1.0	<1.0	2.0
Benzo(a)anthracene					<8			
Benzo(a)pyrene					<8			
Benzo(b)fluoranthene					<8			
Benzo(g,h,i)perylene					<8			
Benzo(k)fluoranthene					<8			
Benzyl alcohol					<8			
Beryllium, total	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc					<.05			
Bis (2-chloroethoxy) methane					<8			
Bis(2-chloroethyl) ether					<8			
Bis(2-chloroisopropyl) ether					<8			
Bis(2-ethylhexyl) phthalate					<6			
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Butyl benzyl phthalate					<8			
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	1.0
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane					<.1			
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate					<8			
Chloroethane	<1.0	<1.0	<1.0	1.7	1.2	<1.0	<1.0	<1.0
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene					<1			
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene					<8			
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	2.5	2.7	2.1	3.7	2.5	4.6	4.1	4.2
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4
Cyanide, total					<.005			
Delta-bhc					<.05			
Diallate					<8			
Dibenzo(a,h)anthracene					<8			
Dibenzofuran					<8			
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane					<1			
Dieldrin					<.05			
Diethyl phthalate					<8			
Dimethoate					<.4			
Dimethylphthalate					<8			
Di-n-butyl phthalate					<8			
Di-n-octyl phthalate					<8			
Dinoseb					<.5			
Diphenylamine					<8			
Disulfoton					<.4			
Endosulfan i					<.05			
Endosulfan ii					<.05			
Endosulfan sulfate					<.05			
Endrin					<.05			
Endrin aldehyde					<.05			
Ethyl methacrylate					<10			
Ethyl methanesulfonate					<8			
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
Famphur					<.4			
Fluoranthene					<8			
Fluorene					<8			
Gamma-bhc (lindane)					<.05			
Heptachlor					<.05			
Heptachlor epoxide					<.05			

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

Table 9

Analytical Data Summary for MW-22

Constituents	Units	10/15/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
Hexachlorobenzene	ug/L				<.05					
Hexachlorobutadiene	ug/L				<.8					
Hexachlorocyclopentadiene	ug/L				<.8					
Hexachloroethane	ug/L				<.8					
Hexachloropropene	ug/L				<.8					
Indeno(1,2,3-cd)pyrene	ug/L				<.8					
Isobutanol	ug/L				<1000					
Isodrin	ug/L				<.8					
Isophorone	ug/L				<.8					
Isosafrole	ug/L				<.8					
Kepone	ug/L				<.8					
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total	ug/L				<.5					
Methacrylonitrile	ug/L				<1					
Methapyrilene	ug/L				<.8					
Methoxychlor	ug/L				<.05					
Methyl iodide	ug/L	11.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl methacrylate	ug/L				<1					
Methyl methanesulfonate	ug/L				<.8					
Methyl parathion	ug/L				<.4					
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L				<.8					
Nickel, total	ug/L	6.9	9.8	6.8	9.6	4.4	7.4	8.2	<20.0	6.5
Nitrobenzene	ug/L				<.8					
N-nitrosodiethylamine	ug/L				<.8					
N-nitrosodimethylamine	ug/L				<.8					
N-nitrosodi-n-butylamine	ug/L				<.8					
N-nitroso-di-n-propylamine	ug/L				<.8					
N-nitrosodiphenylamine	ug/L				<.8					
N-nitrosomethylethylamine	ug/L				<.8					
N-nitrosopiperidine	ug/L				<.8					
N-nitrosopyrrolidine	ug/L				<.8					
O,o,o-triethyl phosphorothioate	ug/L				<.4					
O-toluidine	ug/L				<.8					
Parathion	ug/L				<.4					
P-dimethylaminoazobenzene	ug/L				<.8					
Pentachlorobenzene	ug/L				<.8					
Pentachloronitrobenzene (pcnb)	ug/L				<.8					
Pentachlorophenol	ug/L				<.8					
Phenacetin	ug/L				<.8					
Phenanthrene	ug/L				<.8					
Phenol	ug/L				<.8					
Phorate	ug/L				<.4					
Pronamide	ug/L				<.8					
Propionitrile	ug/L				<40					
Pyrene	ug/L				<.8					
Safrole	ug/L				<.8					
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L	39	106	101	54	36	108	135		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L				<.1					
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4	<4	<1	<4	<4	<4	<4	<4	<4
Thionazin	ug/L				<.4					
Tin, total	ug/L				<20					
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	1.5	<1.0
Toxaphene	ug/L				<.2					
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1.0	1.6	1.0	<1.0	<1.0	2.9	<1.0	<1.0	1.5
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<20	<8	<8	<8	<8	<8	<8	<8	37

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

Table 9

Analytical Data Summary for MW-22

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	3/8/2022	8/30/2022	3/7/2023
Hexachlorobenzene					.08	<.05		
Hexachlorobutadiene					<8			
Hexachlorocyclopentadiene					<8			
Hexachloroethane					<8			
Hexachloropropene					<8			
Indeno(1,2,3-cd)pyrene					<8			
Isobutanol					<1000			
Isodrin					<8			
Isophorone					<8			
Isosafrole					<8			
Kepone					<8			
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total					<.5			
Methacrylonitrile					<1			
Methapyrilene					<8			
Methoxychlor					<.05			
Methyl iodide	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
Methyl methacrylate					<1			
Methyl methanesulfonate					<8			
Methyl parathion					<.4			
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene					<8			
Nickel, total	6.1	6.8	5.4	7.5	5.8	8.7	7.6	7.7
Nitrobenzene					<8			
N-nitrosodiethylamine					<8			
N-nitrosodimethylamine					<8			
N-nitrosodi-n-butylamine					<8			
N-nitroso-di-n-propylamine					<8			
N-nitrosodiphenylamine					<8			
N-nitrosomethylethylamine					<8			
N-nitrosopiperidine					<8			
N-nitrosopyrrolidine					<8			
O,o,o-triethyl phosphorothioate					<.4			
O-toluidine					<8			
Parathion					<.4			
P-dimethylaminoazobenzene					<8			
Pentachlorobenzene					<8			
Pentachloronitrobenzene (pcnb)					<8			
Pentachlorophenol					<8			
Phenacetin					<8			
Phenanthrene					<8			
Phenol					<8			
Phorate					<.4			
Pronamide					<8			
Propionitrile					<10			
Pyrene					<8			
Safrole					<8			
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended								
Styrene	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total					<.1			
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2	<2	<2	<2	<2	<2	<2	<2
Thionazin					<.4			
Tin, total					<20			
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toxaphene					<.2			
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	1.4	1.8	1.8	1.3	1.1	<1.0	<1.0	1.3
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8	<8	<20	<20	<20	<20	<20	<20

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

Table 9

Analytical Data Summary for MW-23

Constituents	Units	10/16/2014
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-dichloroethylene	ug/L	<1
1,2,3-trichloropropane	ug/L	<1
1,2-dibromo-3-chloropropane	ug/L	<1
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 (mek)	ug/L	<5
2-hexanone (mbk)	ug/L	<5
4-methyl-2-pentanone (mibk)	ug/L	<5
Acetone	ug/L	<10
Acrylonitrile	ug/L	<5
Antimony, total	ug/L	<2
Arsenic, total	ug/L	<4
Barium, total	ug/L	48.3
Benzene	ug/L	<1
Beryllium, total	ug/L	<4
Bromochloromethane	ug/L	<1
Bromodichloromethane	ug/L	<1
Bromoform	ug/L	<1
Bromomethane	ug/L	<1
Cadmium, total	ug/L	<.8
Carbon disulfide	ug/L	<1
Carbon tetrachloride	ug/L	<1
Chlorobenzene	ug/L	<1
Chloroethane	ug/L	<1
Chloroform	ug/L	<1
Chloromethane	ug/L	<1
Chromium, total	ug/L	<8
Cis-1,2-dichloroethylene	ug/L	<1
Cis-1,3-dichloropropene	ug/L	<1
Cobalt, total	ug/L	<.8
Copper, total	ug/L	<4
Dibromochloromethane	ug/L	<1
Dibromomethane	ug/L	<1
Ethylbenzene	ug/L	<1
Lead, total	ug/L	<4
Methyl iodide	ug/L	<1
Methylene chloride	ug/L	<5
Nickel, total	ug/L	<4
Selenium, total	ug/L	<4
Silver, total	ug/L	<4
Solids, total suspended	mg/L	400
Styrene	ug/L	<1
Tetrachloroethylene	ug/L	<1
Thallium, total	ug/L	<4
Toluene	ug/L	<1
Trans-1,2-dichloroethylene	ug/L	<1
Trans-1,3-dichloropropene	ug/L	<1
Trans-1,4-dichloro-2-butene	ug/L	<5
Trichloroethylene	ug/L	<1
Trichlorofluoromethane	ug/L	<1
Vanadium, total	ug/L	<20
Vinyl acetate	ug/L	<5
Vinyl chloride	ug/L	<1
Xylenes, total	ug/L	<2
Zinc, total	ug/L	<20

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

Table 9

Analytical Data Summary for MW-24

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
(34) -methylphenol	ug/L				<8					
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L				<1					
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L				<8					
1,2,4-trichlorobenzene	ug/L				<1					
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene	ug/L				<8					
1,3,5-trinitrobenzene	ug/L				<8					
1,3-dichlorobenzene	ug/L				<1					
1,3-dichloropropane	ug/L				<1					
1,3-dinitrobenzene	ug/L				<8					
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L				<8					
1,4-phenylenediamine	ug/L				<8					
1-naphthylamine	ug/L				<8					
2,2-dichloropropane	ug/L				<1					
2,3,4,6-tetrachlorophenol	ug/L				<8					
2,4,5-t	ug/L				<5					
2,4,5-tp (silvex)	ug/L				<5					
2,4,5-trichlorophenol	ug/L				<8					
2,4,6-trichlorophenol	ug/L				<8					
2,4-d	ug/L				<2					
2,4-dichlorophenol	ug/L				<8					
2,4-dimethylphenol	ug/L				<8					
2,4-dinitrophenol	ug/L				<8					
2,4-dinitrotoluene	ug/L				<8					
2,6-dichlorophenol	ug/L				<8					
2,6-dinitrotoluene	ug/L				<8					
2-acetylaminofluorene	ug/L				<8					
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene	ug/L				<8					
2-chlorophenol	ug/L				<8					
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L				<8					
2-methylphenol	ug/L				<8					
2-naphthylamine	ug/L				<8					
2-nitroaniline	ug/L				<8					
2-nitrophenol	ug/L				<8					
3,3'-dichlorobenzidine	ug/L				<8					
3,3'-dimethylbenzidine	ug/L				<8					
3-methylcholanthrene	ug/L				<8					
3-nitroaniline	ug/L				<8					
4,4'-ddd	ug/L				<.05					
4,4'-dde	ug/L				<.05					
4,4'-ddt	ug/L				<.05					
4,6-dinitro-2-methylphenol	ug/L				<8					
4-aminobiphenyl	ug/L				<8					
4-bromophenyl phenyl ether	ug/L				<8					
4-chloro-3-methylphenol	ug/L				<8					
4-chloroaniline	ug/L				<8					
4-chlorophenyl phenyl ether	ug/L				<8					
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	ug/L				<8					
4-nitrophenol	ug/L				<8					
5-nitro-o-toluidine	ug/L				<8					
7,12-dimethylbenz(a)anthracene	ug/L				<8					
Acenaphthene	ug/L				<8					
Acenaphthylene	ug/L				<8					
Acetone	ug/L	58.4	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile	ug/L				<10					
Acetophenone	ug/L				<8					
Acrolein	ug/L				<10					
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin	ug/L				<.05					
Allyl chloride	ug/L				<1					
Alpha-bhc	ug/L				<.05					
Anthracene	ug/L				<8					

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

Table 9

Analytical Data Summary for MW-24

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	5/11/2021	9/28/2021	3/8/2022	8/30/2022
(34) -methylphenol									
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1		<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1		<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1		<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1		<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1		<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1		<1	<1	<1
1,1-dichloropropene									
1,2,3-trichloropropane	<1	<1	<1	<1	<1		<1	<1	<1
1,2,4,5-tetrachlorobenzene									
1,2,4-trichlorobenzene									
1,2-dibromo-3-chloropropane	<1	<1	<5	<5	<5		<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1		<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1		<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1		<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1		<1	<1	<1
1,2-dinitrobenzene									
1,3,5-trinitrobenzene									
1,3-dichlorobenzene									
1,3-dichloropropane									
1,3-dinitrobenzene									
1,4-dichlorobenzene	<1	<1	<1	<1	<1		<1	<1	<1
1,4-naphthoquinone									
1,4-phenylenediamine									
1-naphthylamine									
2,2-dichloropropane									
2,3,4,6-tetrachlorophenol									
2,4,5-t									
2,4,5-tp (silvex)									
2,4,5-trichlorophenol									
2,4,6-trichlorophenol									
2,4-d									
2,4-dichlorophenol									
2,4-dimethylphenol									
2,4-dinitrophenol									
2,4-dinitrotoluene									
2,6-dichlorophenol									
2,6-dinitrotoluene									
2-acetylaminofluorene									
2-butanone (mek)	<5	<5	<5	<5	<5		<5	<10	<10
2-chloronaphthalene									
2-chlorophenol									
2-hexanone (mbk)	<5	<5	<5	<5	<5		<5	<5	<5
2-methylnaphthalene									
2-methylphenol									
2-naphthylamine									
2-nitroaniline									
2-nitrophenol									
3,3'-dichlorobenzidine									
3,3'-dimethylbenzidine									
3-methylcholanthrene									
3-nitroaniline									
4,4'-ddd									
4,4'-dde									
4,4'-ddt									
4,6-dinitro-2-methylphenol									
4-aminobiphenyl									
4-bromophenyl phenyl ether									
4-chloro-3-methylphenol									
4-chloroaniline									
4-chlorophenyl phenyl ether									
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5		<5	<5	<5
4-nitroaniline									
4-nitrophenol									
5-nitro-o-toluidine									
7,12-dimethylbenz(a)anthracene									
Acenaphthene									
Acenaphthylene									
Acetone	<10.0	<10.0	13.8	<10.0	62.4	<10.0	<10.0	<10.0	<10.0
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile	<5	<5	<5	<5	<5		<5	<5	<5
Aldrin									
Allyl chloride									
Alpha-bhc									
Anthracene									

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

Table 9

Analytical Data Summary for MW-24

Constituents	3/7/2023	9/11/2023
(34) -methylphenol		
1,1,1,2-tetrachloroethane	<1	<1
1,1,1-trichloroethane	<1	<1
1,1,2,2-tetrachloroethane	<1	<1
1,1,2-trichloroethane	<1	<1
1,1-dichloroethane	<1	<1
1,1-dichloroethylene	<1	<1
1,1-dichloropropene		
1,2,3-trichloropropane	<1	<1
1,2,4,5-tetrachlorobenzene		
1,2,4-trichlorobenzene		
1,2-dibromo-3-chloropropane	<5	<5
1,2-dibromoethane	<1	<1
1,2-dichlorobenzene	<1	<1
1,2-dichloroethane	<1	<1
1,2-dichloropropane	<1	<1
1,2-dinitrobenzene		
1,3,5-trinitrobenzene		
1,3-dichlorobenzene		
1,3-dichloropropane		
1,3-dinitrobenzene		
1,4-dichlorobenzene	<1	<1
1,4-naphthoquinone		
1,4-phenylenediamine		
1-naphthylamine		
2,2-dichloropropane		
2,3,4,6-tetrachlorophenol		
2,4,5-t		
2,4,5-tp (silvex)		
2,4,5-trichlorophenol		
2,4,6-trichlorophenol		
2,4-d		
2,4-dichlorophenol		
2,4-dimethylphenol		
2,4-dinitrophenol		
2,4-dinitrotoluene		
2,6-dichlorophenol		
2,6-dinitrotoluene		
2-acetylaminofluorene		
2-butanone (mek)	<10	<10
2-chloronaphthalene		
2-chlorophenol		
2-hexanone (mbk)	<5	<5
2-methylnaphthalene		
2-methylphenol		
2-naphthylamine		
2-nitroaniline		
2-nitrophenol		
3,3'-dichlorobenzidine		
3,3'-dimethylbenzidine		
3-methylcholanthrene		
3-nitroaniline		
4,4'-ddd		
4,4'-dde		
4,4'-ddt		
4,6-dinitro-2-methylphenol		
4-aminobiphenyl		
4-bromophenyl phenyl ether		
4-chloro-3-methylphenol		
4-chloroaniline		
4-chlorophenyl phenyl ether		
4-methyl-2-pentanone (mibk)	<5	<5
4-nitroaniline		
4-nitrophenol		
5-nitro-o-toluidine		
7,12-dimethylbenz(a)anthracene		
Acenaphthene		
Acenaphthylene		
Acetone	<10.0	<10.0
Acetonitrile		
Acetophenone		
Acrolein		
Acrylonitrile	<5	<5
Aldrin		
Allyl chloride		
Alpha-bhc		
Anthracene		

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

Table 9

Analytical Data Summary for MW-24

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L				<.1					
Arochlor 1221	ug/L				<.2					
Arochlor 1232	ug/L				<.2					
Arochlor 1242	ug/L				<.2					
Arochlor 1248	ug/L				<.2					
Arochlor 1254	ug/L				<.1					
Arochlor 1260	ug/L				<.1					
Arsenic, total	ug/L	65.9	25.0	47.2	88.5	51.1	139.0	72.0	155.0	129.0
Azobenzene	ug/L				<8					
Barium, total	ug/L	1150	671	772	975	641	1260	713	1140	968
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene	ug/L				<8					
Benzo(a)pyrene	ug/L				<8					
Benzo(b)fluoranthene	ug/L				<8					
Benzo(g,h,i)perylene	ug/L				<8					
Benzo(k)fluoranthene	ug/L				<8					
Benzyl alcohol	ug/L				<8					
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc	ug/L				<.05					
Bis (2-chloroethoxy) methane	ug/L				<8					
Bis(2-chloroethyl) ether	ug/L				<8					
Bis(2-chloroisopropyl) ether	ug/L				<8					
Bis(2-ethylhexyl) phthalate	ug/L				<8					
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	ug/L				<8					
Cadmium, total	ug/L	1.6	<.8	<.8	.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L				<.1					
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	ug/L				<8					
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene	ug/L				<1					
Chromium, total	ug/L	37.5	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene	ug/L				<8					
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	37.2	14.0	2.0	3.7	5.6	2.2	1.2	<2.0	.9
Copper, total	ug/L	67.1	10.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total	mg/L				<.005					
Delta-bhc	ug/L				<.05					
Diallate	ug/L				<8					
Dibenzo(a,h)anthracene	ug/L				<8					
Dibenzofuran	ug/L				<8					
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L				<1					
Dieldrin	ug/L				<.05					
Diethyl phthalate	ug/L				<8					
Dimethoate	ug/L				<.4					
Dimethylphthalate	ug/L				<8					
Di-n-butyl phthalate	ug/L				<8					
Di-n-octyl phthalate	ug/L				<8					
Dinoseb	ug/L				<.5					
Diphenylamine	ug/L				<8					
Disulfoton	ug/L				<.4					
Endosulfan i	ug/L				<.05					
Endosulfan ii	ug/L				<.05					
Endosulfan sulfate	ug/L				<.05					
Endrin	ug/L				<.05					
Endrin aldehyde	ug/L				<.05					
Ethyl methacrylate	ug/L				<10					
Ethyl methanesulfonate	ug/L				<8					
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L				<.4					
Fluoranthene	ug/L				<8					
Fluorene	ug/L				<8					
Gamma-bhc (lindane)	ug/L				<.05					
Heptachlor	ug/L				<.05					
Heptachlor epoxide	ug/L				<.05					
Hexachlorobenzene	ug/L				<.05					

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

Table 9

Analytical Data Summary for MW-24

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	5/11/2021	9/28/2021	3/8/2022	8/30/2022
Antimony, total	<2	<2	<2	<2	<2		<2	<2	<2
Arochlor 1016									
Arochlor 1221									
Arochlor 1232									
Arochlor 1242									
Arochlor 1248									
Arochlor 1254									
Arochlor 1260									
Arsenic, total	210.0	117.0	167.0	61.6	133.0		142.0	115.0	101.0
Azobenzene									
Barium, total	1500	1100	1080	638	901		824	801	579
Benzene	<1	<1	<1	<1	<1		<1	<1	<1
Benzo(a)anthracene									
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(g,h,i)perylene									
Benzo(k)fluoranthene									
Benzyl alcohol									
Beryllium, total	<4	<4	<4	<4	<4		<4	<4	<4
Beta-bhc									
Bis (2-chloroethoxy) methane									
Bis(2-chloroethyl) ether									
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl) phthalate									
Bromochloromethane	<1	<1	<1	<1	<1		<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1		<1	<1	<1
Bromoform	<1	<1	<1	<1	<1		<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1		<1	<1	<1
Butyl benzyl phthalate									
Cadmium, total	1.8	1.0	<.8	<.8	2.4		<.8	.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1		<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1		<1	<1	<1
Chlordane									
Chlorobenzene	<1	<1	<1	<1	<1		<1	<1	<1
Chlorobenzilate									
Chloroethane	<1	<1	<1	<1	<1		<1	<1	<1
Chloroform	<1	<1	<1	<1	<1		<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1		<1	<1	<1
Chloroprene									
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0		<8.0	<8.0	<8.0
Chrysene									
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1		<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1		<1	<1	<1
Cobalt, total	2.0	1.6	2.1	.8	1.1		1.0	1.7	.6
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0
Cyanide, total									
Delta-bhc									
Diallate									
Dibenzo(a,h)anthracene									
Dibenzofuran									
Dibromochloromethane	<1	<1	<1	<1	<1		<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1		<1	<1	<1
Dichlorodifluoromethane									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethylphthalate									
Di-n-butyl phthalate									
Di-n-octyl phthalate									
Dinoseb									
Diphenylamine									
Disulfoton									
Endosulfan i									
Endosulfan ii									
Endosulfan sulfate									
Endrin									
Endrin aldehyde									
Ethyl methacrylate									
Ethyl methanesulfonate									
Ethylbenzene	<1	<1	<1	<1	<1		<1	<1	<1
Famphur									
Fluoranthene									
Fluorene									
Gamma-bhc (lindane)									
Heptachlor									
Heptachlor epoxide									
Hexachlorobenzene									

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

Table 9

Analytical Data Summary for MW-24

Constituents	3/7/2023	9/11/2023
Antimony, total	<2	<2
Arochlor 1016		
Arochlor 1221		
Arochlor 1232		
Arochlor 1242		
Arochlor 1248		
Arochlor 1254		
Arochlor 1260		
Arsenic, total	12.9	57.9
Azobenzene		
Barium, total	385	508
Benzene	<1	<1
Benzo(a)anthracene		
Benzo(a)pyrene		
Benzo(b)fluoranthene		
Benzo(g,h,i)perylene		
Benzo(k)fluoranthene		
Benzyl alcohol		
Beryllium, total	<4	<4
Beta-bhc		
Bis (2-chloroethoxy) methane		
Bis(2-chloroethyl) ether		
Bis(2-chloroisopropyl) ether		
Bis(2-ethylhexyl) phthalate		
Bromochloromethane	<1	<1
Bromodichloromethane	<1	<1
Bromoform	<1	<1
Bromomethane	<1	<1
Butyl benzyl phthalate		
Cadmium, total	<.8	<.8
Carbon disulfide	<1	<1
Carbon tetrachloride	<1	<1
Chlordane		
Chlorobenzene	<1	<1
Chlorobenzilate		
Chloroethane	<1	<1
Chloroform	<1	<1
Chloromethane	<1	<1
Chloroprene		
Chromium, total	<8.0	<8.0
Chrysene		
Cis-1,2-dichloroethylene	<1	<1
Cis-1,3-dichloropropene	<1	<1
Cobalt, total	<4	1.2
Copper, total	<4.0	<4.0
Cyanide, total		
Delta-bhc		
Diallate		
Dibenzo(a,h)anthracene		
Dibenzofuran		
Dibromochloromethane	<1	<1
Dibromomethane	<1	<1
Dichlorodifluoromethane		
Dieldrin		
Diethyl phthalate		
Dimethoate		
Dimethylphthalate		
Di-n-butyl phthalate		
Di-n-octyl phthalate		
Dinoseb		
Diphenylamine		
Disulfoton		
Endosulfan i		
Endosulfan ii		
Endosulfan sulfate		
Endrin		
Endrin aldehyde		
Ethyl methacrylate		
Ethyl methanesulfonate		
Ethylbenzene	<1	<1
Famphur		
Fluoranthene		
Fluorene		
Gamma-bhc (lindane)		
Heptachlor		
Heptachlor epoxide		
Hexachlorobenzene		

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

Table 9

Analytical Data Summary for MW-24

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018
Hexachlorobutadiene	ug/L				<8					
Hexachlorocyclopentadiene	ug/L				<8					
Hexachloroethane	ug/L				<8					
Hexachloropropene	ug/L				<8					
Indeno(1,2,3-cd)pyrene	ug/L				<8					
Isobutanol	ug/L				<1000					
Isodrin	ug/L				<8					
Isophorone	ug/L				<8					
Isosafrole	ug/L				<8					
Kepone	ug/L				<8					
Lead, total	ug/L	27.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Mercury, total	ug/L				<.5					
Methacrylonitrile	ug/L				<1					
Methapyrilene	ug/L				<8					
Methoxychlor	ug/L				<.05					
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate	ug/L				<1					
Methyl methanesulfonate	ug/L				<8					
Methyl parathion	ug/L				<.4					
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L				<8					
Nickel, total	ug/L	81.2	25.1	<4.0	4.0	<4.0	4.3	<4.0	<20.0	<4.0
Nitrobenzene	ug/L				<8					
N-nitrosodiethylamine	ug/L				<8					
N-nitrosodimethylamine	ug/L				<8					
N-nitrosodi-n-butylamine	ug/L				<8					
N-nitroso-di-n-propylamine	ug/L				<8					
N-nitrosodiphenylamine	ug/L				<8					
N-nitrosomethylethylamine	ug/L				<8					
N-nitrosopiperidine	ug/L				<8					
N-nitrosopyrrolidine	ug/L				<8					
O,o,o-triethyl phosphorothioate	ug/L				<.4					
O-toluidine	ug/L				<8					
Parathion	ug/L				<.4					
P-dimethylaminoazobenzene	ug/L				<8					
Pentachlorobenzene	ug/L				<8					
Pentachloronitrobenzene (pcnb)	ug/L				<8					
Pentachlorophenol	ug/L				<8					
Phenacetin	ug/L				<8					
Phenanthrene	ug/L				<8					
Phenol	ug/L				<8					
Phorate	ug/L				<.4					
Pronamide	ug/L				<8					
Propionitrile	ug/L				<40					
Pyrene	ug/L				<8					
Safrole	ug/L				<8					
Selenium, total	ug/L	16.4	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L	966	182	59	111	110	2410	141		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L				.1					
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4	<4	<1	<4	<4	<4	<4	<4	<4
Thionazin	ug/L				<.4					
Tin, total	ug/L				<20					
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L				<.2					
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	72.3	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	117.0	16.2	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	106.0

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

Table 9

Analytical Data Summary for MW-24

Constituents	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	5/11/2021	9/28/2021	3/8/2022	8/30/2022
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno(1,2,3-cd)pyrene									
Isobutanol									
Isodrin									
Isophorone									
Isosafrole									
Kepone									
Lead, total	6.8	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0
Mercury, total									
Methacrylonitrile									
Methapyrilene									
Methoxychlor									
Methyl iodide	<1	<1	<1	<1	<1		<1	<1	<1
Methyl methacrylate									
Methyl methanesulfonate									
Methyl parathion									
Methylene chloride	<5	<5	<5	<5	<5		<5	<5	<5
Naphthalene									
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0
Nitrobenzene									
N-nitrosodiethylamine									
N-nitrosodimethylamine									
N-nitrosodi-n-butylamine									
N-nitroso-di-n-propylamine									
N-nitrosodiphenylamine									
N-nitrosomethylethylamine									
N-nitrosopiperidine									
N-nitrosopyrrolidine									
O,o,o-triethyl phosphorothioate									
O-toluidine									
Parathion									
P-dimethylaminoazobenzene									
Pentachlorobenzene									
Pentachloronitrobenzene (pcnb)									
Pentachlorophenol									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Pronamide									
Propionitrile									
Pyrene									
Safrole									
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0
Silver, total	<4	<4	<4	<4	<4		<4	<4	<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1		<1	<1	<1
Sulfide, total									
Tetrachloroethylene	<1	<1	<1	<1	<1		<1	<1	<1
Thallium, total	<2	<2	<2	<2	<2		<2	<2	<2
Thionazin									
Tin, total									
Toluene	<1	<1	<1	<1	<1		<1	<1	<1
Toxaphene									
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1		<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1		<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5		<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1		<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1		<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0		<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5		<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1		<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2		<2	<2	<2
Zinc, total	39.2	56.9	<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-24

Constituents	3/7/2023	9/11/2023
Hexachlorobutadiene		
Hexachlorocyclopentadiene		
Hexachloroethane		
Hexachloropropene		
Indeno(1,2,3-cd)pyrene		
Isobutanol		
Isodrin		
Isophorone		
Isosafrole		
Kepona		
Lead, total	<4.0	<4.0
Mercury, total		
Methacrylonitrile		
Methapyrilene		
Methoxychlor		
Methyl iodide	<1	<1
Methyl methacrylate		
Methyl methanesulfonate		
Methyl parathion		
Methylene chloride	<5	<5
Naphthalene		
Nickel, total	<4.0	<4.0
Nitrobenzene		
N-nitrosodiethylamine		
N-nitrosodimethylamine		
N-nitrosodi-n-butylamine		
N-nitroso-di-n-propylamine		
N-nitrosodiphenylamine		
N-nitrosomethylethylamine		
N-nitrosopiperidine		
N-nitrosopyrrolidine		
O,o,o-triethyl phosphorothioate		
O-toluidine		
Parathion		
P-dimethylaminoazobenzene		
Pentachlorobenzene		
Pentachloronitrobenzene (pcnb)		
Pentachlorophenol		
Phenacetin		
Phenanthrene		
Phenol		
Phorate		
Pronamide		
Propionitrile		
Pyrene		
Safrole		
Selenium, total	<4.0	<4.0
Silver, total	<4	<4
Solids, total suspended		
Styrene	<1	<1
Sulfide, total		
Tetrachloroethylene	<1	<1
Thallium, total	<2	<2
Thionazin		
Tin, total		
Toluene	<1	<1
Toxaphene		
Trans-1,2-dichloroethylene	<1	<1
Trans-1,3-dichloropropene	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5
Trichloroethylene	<1	<1
Trichlorofluoromethane	<1	<1
Vanadium, total	<20.0	<20.0
Vinyl acetate	<5	<5
Vinyl chloride	<1	<1
Xylenes, total	<2	<2
Zinc, total	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW-25

Constituents	Units	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018	4/2/2019	3/25/2020
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-dichloroethylene	ug/L			<1					
1,2,3-trichloropropane	ug/L			<1					
1,2-dibromo-3-chloropropane	ug/L			<1					
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 (mek)	ug/L			<5					
2-hexanone (mbk)	ug/L			<5					
4-methyl-2-pentanone (mibk)	ug/L			<5					
Acetone	ug/L			<10					
Acrylonitrile	ug/L			<5					
Antimony, total	ug/L			<2					
Arsenic, total	ug/L	<4.0	4.2	<4.0	4.0	<4.0	<4.0	<4.0	<4.0
Barium, total	ug/L	94.90000	105.00000	109.00000	98.40000	85.30000	150.00000	102.00000	84.50000
Benzene	ug/L			<1					
Beryllium, total	ug/L			<4					
Bromochloromethane	ug/L			<1					
Bromodichloromethane	ug/L			<1					
Bromoform	ug/L			<1					
Bromomethane	ug/L			<1					
Cadmium, total	ug/L			<.8					
Carbon disulfide	ug/L			<1					
Carbon tetrachloride	ug/L			<1					
Chlorobenzene	ug/L			<1					
Chloroethane	ug/L			<1					
Chloroform	ug/L			<1					
Chloromethane	ug/L			<1					
Chromium, total	ug/L			<8					
Cis-1,2-dichloroethylene	ug/L			<1					
Cis-1,3-dichloropropene	ug/L			<1					
Cobalt, total	ug/L			.8					
Copper, total	ug/L			<4					
Dibromochloromethane	ug/L			<1					
Dibromomethane	ug/L			<1					
Ethylbenzene	ug/L			<1					
Lead, total	ug/L			<4					
Methyl iodide	ug/L			<1					
Methylene chloride	ug/L			<5					
Nickel, total	ug/L			<4					
Selenium, total	ug/L			<4					
Silver, total	ug/L			<4					
Solids, total suspended	mg/L	31	36	373	611				
Styrene	ug/L			<1					
Tetrachloroethylene	ug/L			<1					
Thallium, total	ug/L			<4					
Toluene	ug/L			<1					
Trans-1,2-dichloroethylene	ug/L			<1					
Trans-1,3-dichloropropene	ug/L			<1					
Trans-1,4-dichloro-2-butene	ug/L			<5					
Trichloroethylene	ug/L			<1					
Trichlorofluoromethane	ug/L			<1					
Vanadium, total	ug/L			<20					
Vinyl acetate	ug/L			<5					
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L			<2					
Zinc, total	ug/L			<8					

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

Table 9

Analytical Data Summary for MW-25

Constituents	9/15/2020	3/8/2021	9/28/2021	3/8/2022	8/30/2022	3/7/2023	9/11/2023
1,1,1,2-tetrachloroethane							
1,1,1-trichloroethane							
1,1,2,2-tetrachloroethane							
1,1,2-trichloroethane							
1,1-dichloroethane							
1,1-dichloroethylene							
1,2,3-trichloropropane							
1,2-dibromo-3-chloropropane							
1,2-dibromoethane							
1,2-dichlorobenzene							
1,2-dichloroethane							
1,2-dichloropropane							
1,4-dichlorobenzene							
2-butanone (mek)							
2-hexanone (mbk)							
4-methyl-2-pentanone (mibk)							
Acetone							
Acrylonitrile							
Antimony, total							
Arsenic, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Barium, total	102.00000	91.39999	107.00000	71.40000	113.00000	105.00000	118.00000
Benzene							
Beryllium, total							
Bromochloromethane							
Bromodichloromethane							
Bromoform							
Bromomethane							
Cadmium, total							
Carbon disulfide							
Carbon tetrachloride							
Chlorobenzene							
Chloroethane							
Chloroform							
Chloromethane							
Chromium, total							
Cis-1,2-dichloroethylene							
Cis-1,3-dichloropropene							
Cobalt, total							
Copper, total							
Dibromochloromethane							
Dibromomethane							
Ethylbenzene							
Lead, total							
Methyl iodide							
Methylene chloride							
Nickel, total							
Selenium, total							
Silver, total							
Solids, total suspended							
Styrene							
Tetrachloroethylene							
Thallium, total							
Toluene							
Trans-1,2-dichloroethylene							
Trans-1,3-dichloropropene							
Trans-1,4-dichloro-2-butene							
Trichloroethylene							
Trichlorofluoromethane							
Vanadium, total							
Vinyl acetate							
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1
Xylenes, total							
Zinc, total							

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

Table 9

Analytical Data Summary for MW-26

Constituents	Units	4/4/2016	9/20/2016	11/8/2016	4/24/2017	10/9/2017	3/21/2018	9/7/2018	4/2/2019	9/18/2019
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-dichloroethylene	ug/L				<1					
1,2,3-trichloropropane	ug/L				<1					
1,2-dibromo-3-chloropropane	ug/L				<1					
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 (mek)	ug/L				<5					
2-hexanone (mbk)	ug/L				<5					
4-methyl-2-pentanone (mibk)	ug/L				<5					
Acetone	ug/L				<10					
Acrylonitrile	ug/L				<5					
Antimony, total	ug/L				<2					
Arsenic, total	ug/L	17.7	19.7	10.7	19.8	26.2	31.6	72.6	74.9	44.2
Barium, total	ug/L	581	592		552	706	588	1170	986	879
Benzene	ug/L				<1					
Beryllium, total	ug/L				<4					
Bromochloromethane	ug/L				<1					
Bromodichloromethane	ug/L				<1					
Bromoform	ug/L				<1					
Bromomethane	ug/L				<1					
Cadmium, total	ug/L				<.8					
Carbon disulfide	ug/L				<1					
Carbon tetrachloride	ug/L				<1					
Chlorobenzene	ug/L				<1					
Chloroethane	ug/L				1.6					
Chloroform	ug/L				<1					
Chloromethane	ug/L				<1					
Chromium, total	ug/L				<8					
Cis-1,2-dichloroethylene	ug/L				<1					
Cis-1,3-dichloropropene	ug/L				<1					
Cobalt, total	ug/L				3.6					
Copper, total	ug/L				<4					
Dibromochloromethane	ug/L				<1					
Dibromomethane	ug/L				<1					
Ethylbenzene	ug/L				<1					
Lead, total	ug/L				<4					
Methyl iodide	ug/L				<1					
Methylene chloride	ug/L				<5					
Nickel, total	ug/L				<4					
Selenium, total	ug/L				<4					
Silver, total	ug/L				<4					
Solids, total suspended	mg/L	472	331		1100	1070				
Styrene	ug/L				<1					
Tetrachloroethylene	ug/L				<1					
Thallium, total	ug/L				<4					
Toluene	ug/L				<1					
Trans-1,2-dichloroethylene	ug/L				<1					
Trans-1,3-dichloropropene	ug/L				<1					
Trans-1,4-dichloro-2-butene	ug/L				<5					
Trichloroethylene	ug/L				<1					
Trichlorofluoromethane	ug/L				<1					
Vanadium, total	ug/L				<20					
Vinyl acetate	ug/L				<5					
Vinyl chloride	ug/L	<1	<1		<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L				<2					
Zinc, total	ug/L				<8					

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

Table 9

Analytical Data Summary for MW-26

Constituents	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022	8/30/2022	3/7/2023	9/11/2023
1,1,1,2-tetrachloroethane								
1,1,1-trichloroethane								
1,1,2,2-tetrachloroethane								
1,1,2-trichloroethane								
1,1-dichloroethane								
1,1-dichloroethylene								
1,2,3-trichloropropane								
1,2-dibromo-3-chloropropane								
1,2-dibromoethane								
1,2-dichlorobenzene								
1,2-dichloroethane								
1,2-dichloropropane								
1,4-dichlorobenzene								
2-butanone (mek)								
2-hexanone (mbk)								
4-methyl-2-pentanone (mibk)								
Acetone								
Acrylonitrile								
Antimony, total								
Arsenic, total	55.0	59.0	17.0	81.9	7.2	203.0	23.8	101.0
Barium, total	692	1130	428	1250	232	1620	341	1250
Benzene								
Beryllium, total								
Bromochloromethane								
Bromodichloromethane								
Bromoform								
Bromomethane								
Cadmium, total								
Carbon disulfide								
Carbon tetrachloride								
Chlorobenzene								
Chloroethane								
Chloroform								
Chloromethane								
Chromium, total								
Cis-1,2-dichloroethylene								
Cis-1,3-dichloropropene								
Cobalt, total								
Copper, total								
Dibromochloromethane								
Dibromomethane								
Ethylbenzene								
Lead, total								
Methyl iodide								
Methylene chloride								
Nickel, total								
Selenium, total								
Silver, total								
Solids, total suspended								
Styrene								
Tetrachloroethylene								
Thallium, total								
Toluene								
Trans-1,2-dichloroethylene								
Trans-1,3-dichloropropene								
Trans-1,4-dichloro-2-butene								
Trichloroethylene								
Trichlorofluoromethane								
Vanadium, total								
Vinyl acetate								
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total								
Zinc, total								

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

Table 9

Analytical Data Summary for MW-4

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	11/8/2016	4/24/2017	10/9/2017
(3,4)-Methylphenol	ug/L								
(3,4)-methylphenol	ug/L					<8			
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethane	ug/L	<1.0	<1.0	<1.0	1.0	<1.0		1.7	2.6
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1-dichloropropene	ug/L					<1			
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2,4,5-tetrachlorobenzene	ug/L					<8			
1,2,4-trichlorobenzene	ug/L					<1			
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dichloropropane	ug/L	1.2	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
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	6.8	5.1	3.9	5.3	3.5		5.0	6.5
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					<2.0			
2,4-dichlorophenol	ug/L					<8			
2,4-dimethylphenol	ug/L					<8			
2,4-dinitrophenol	ug/L					<8			
2,4-dinitrotoluene	ug/L					<8			
2,6-dichlorophenol	ug/L					<8			
2,6-dinitrotoluene	ug/L					<8			
2-acetylaminofluorene	ug/L					<8			
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5		<5	<5
2-chloronaphthalene	ug/L					<8			
2-chlorophenol	ug/L					<8			
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5		<5	<5
2-methylnaphthalene	ug/L					<8			
2-methylphenol	ug/L					<8			
2-naphthylamine	ug/L					<8			
2-nitroaniline	ug/L					<8			
2-nitrophenol	ug/L					<8			
3,3'-dichlorobenzidine	ug/L					<8			
3,3'-dimethylbenzidine	ug/L					<8			
3-methylcholanthrene	ug/L					<8			
3-nitroaniline	ug/L					<8			
4,4'-ddd	ug/L					<.07			
4,4'-dde	ug/L					<.07			
4,4'-ddt	ug/L					<.07			
4,6-dinitro-2-methylphenol	ug/L					<8			
4-aminobiphenyl	ug/L					<8			
4-bromophenyl phenyl ether	ug/L					<8			
4-chloro-3-methylphenol	ug/L					<8			
4-chloroaniline	ug/L					<8			
4-chlorophenyl phenyl ether	ug/L					<8			
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5		<5	<5
4-nitroaniline	ug/L					<8			
4-nitrophenol	ug/L					<8			
5-nitro-o-toluidine	ug/L					<8			
7,12-dimethylbenz(a)anthracene	ug/L					<8			
Acenaphthene	ug/L					<8			
Acenaphthylene	ug/L					<8			
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0		<10.0	11.2
Acetonitrile	ug/L					<10			
Acetophenone	ug/L					<8			
Acrolein	ug/L					<10			
Acrylonitrile	ug/L	<5	<5	<5	<5	<5		<5	<5
Aldrin	ug/L					<.07			
Allyl chloride	ug/L					<1			
Alpha-bhc	ug/L					<.07			

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

Table 9

Analytical Data Summary for MW-4

Constituents	3/21/2018	9/7/2018	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	12/3/2021
(3 4)-Methylphenol									<8
(34) -methylphenol									<1
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	2.6	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	1.1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene									<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene									<8
1,2,4-trichlorobenzene									<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<5	<5	<5	<1	<1
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	1.4	<1
1,2-dinitrobenzene									<8
1,3,5-trinitrobenzene									<8
1,3-dichlorobenzene									<1
1,3-dichloropropane									<1
1,3-dinitrobenzene									<8
1,4-dichlorobenzene	6.3	4.9	10.4	7.5	<1.0	6.2	6.3	6.0	<8
1,4-naphthoquinone									<8
1,4-phenylenediamine									<8
1-naphthylamine									<8
2,2-dichloropropane									<1
2,3,4,6-tetrachlorophenol									<8
2,4,5-t									<.7
2,4,5-tp (silvex)									<.7
2,4,5-trichlorophenol									<8
2,4,6-trichlorophenol									<8
2,4-d									<2.7
2,4-dichlorophenol									<8
2,4-dimethylphenol									<8
2,4-dinitrophenol									<8
2,4-dinitrotoluene									<8
2,6-dichlorophenol									<8
2,6-dinitrotoluene									<8
2-acetylaminofluorene									<8
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene									<8
2-chlorophenol									<8
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene									<8
2-methylphenol									<8
2-naphthylamine									<8
2-nitroaniline									<8
2-nitrophenol									<8
3,3'-dichlorobenzidine									<8
3,3'-dimethylbenzidine									<8
3-methylcholanthrene									<8
3-nitroaniline									<8
4,4'-ddd									<.05
4,4'-dde									<.05
4,4'-ddt									<.05
4,6-dinitro-2-methylphenol									<8
4-aminobiphenyl									<8
4-bromophenyl phenyl ether									<8
4-chloro-3-methylphenol									<8
4-chloroaniline									<8
4-chlorophenyl phenyl ether									<8
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline									<8
4-nitrophenol									<8
5-nitro-o-toluidine									<8
7,12-dimethylbenz(a)anthracene									<8
Acenaphthene									<8
Acenaphthylene									<8
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	43.4	<10
Acetonitrile									<8
Acetophenone									<10
Acrolein									<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin									<.05
Allyl chloride									<1
Alpha-bhc									<.05

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

Table 9

Analytical Data Summary for MW-4

Constituents	3/8/2022	8/30/2022	3/7/2023	9/11/2023
(3 4)-Methylphenol				
(34)-methylphenol				
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	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethylene	<1	<1	<1	<1
1,1-dichloropropene				
1,2,3-trichloropropane	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene				
1,2,4-trichlorobenzene				
1,2-dibromo-3-chloropropane	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1
1,2-dichloropropane	<1.0	<1.0	1.1	1.0
1,2-dinitrobenzene				
1,3,5-trinitrobenzene				
1,3-dichlorobenzene				
1,3-dichloropropane				
1,3-dinitrobenzene				
1,4-dichlorobenzene	5.8	4.6	5.7	7.4
1,4-naphthoquinone				
1,4-phenylenediamine				
1-naphthylamine				
2,2-dichloropropane				
2,3,4,6-tetrachlorophenol				
2,4,5-t				
2,4,5-tp (silvex)				
2,4,5-trichlorophenol				
2,4,6-trichlorophenol				
2,4-d				
2,4-dichlorophenol				
2,4-dimethylphenol				
2,4-dinitrophenol				
2,4-dinitrotoluene				
2,6-dichlorophenol				
2,6-dinitrotoluene				
2-acetylaminofluorene				
2-butanone (mek)	<10	<10	<10	<10
2-chloronaphthalene				
2-chlorophenol				
2-hexanone (mbk)	<5	<5	<5	<5
2-methylnaphthalene				
2-methylphenol				
2-naphthylamine				
2-nitroaniline				
2-nitrophenol				
3,3'-dichlorobenzidine				
3,3'-dimethylbenzidine				
3-methylcholanthrene				
3-nitroaniline				
4,4'-ddd				
4,4'-dde				
4,4'-ddt				
4,6-dinitro-2-methylphenol				
4-aminobiphenyl				
4-bromophenyl phenyl ether				
4-chloro-3-methylphenol				
4-chloroaniline				
4-chlorophenyl phenyl ether				
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5
4-nitroaniline				
4-nitrophenol				
5-nitro-o-toluidine				
7,12-dimethylbenz(a)anthracene				
Acenaphthene				
Acenaphthylene				
Acetone	<10.0	<10.0	<10.0	<10.0
Acetonitrile				
Acetophenone				
Acrolein				
Acrylonitrile	<5	<5	<5	<5
Aldrin				
Allyl chloride				
Alpha-bhc				

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

Table 9

Analytical Data Summary for MW-4

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	11/8/2016	4/24/2017	10/9/2017
Anthracene	ug/L					<8			
Antimony, total	ug/L	<2	<2	<2	<2	<2		<2	<2
Arochlor 1016	ug/L					<.15			
Arochlor 1221	ug/L					<.29			
Arochlor 1232	ug/L					<.29			
Arochlor 1242	ug/L					<.29			
Arochlor 1248	ug/L					<.29			
Arochlor 1254	ug/L					<.15			
Arochlor 1260	ug/L					<.15			
Arsenic, total	ug/L	51.7	70.6	57.6	65.0	61.4		58.5	55.1
Azobenzene	ug/L					<8			
Barium, total	ug/L	1780	1570	1480	1370	1440		1120	1120
Benzene	ug/L	2.4	1.6	1.3	1.4	1.2		1.2	1.3
Benzo(a)anthracene	ug/L					<8			
Benzo(a)pyrene	ug/L					<8			
Benzo(b)fluoranthene	ug/L					<8			
Benzo(g,h,i)perylene	ug/L					<8			
Benzo(k)fluoranthene	ug/L					<8			
Benzyl alcohol	ug/L					<8			
Beryllium, total	ug/L	<4	<4	<4	<4	<4		<4	<4
Beta-bhc	ug/L					<.07			
Bis (2-chloroethoxy) methane	ug/L					<8			
Bis(2-chloroethyl) ether	ug/L					<8			
Bis(2-chloroisopropyl) ether	ug/L					<8			
Bis(2-ethylhexyl) phthalate	ug/L	<10				10	<10		
Bromochloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Butyl benzyl phthalate	ug/L					<8			
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8		<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1		<1	<1
Chlordane	ug/L					<.15			
Chlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate	ug/L					<8			
Chloroethane	ug/L	4.7	2.1	3.0	3.1	3.9		2.3	3.0
Chloroform	ug/L	<1	<1	<1	<1	<1		<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Chloroprene	ug/L					<1			
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0		<8.0	<8.0
Chrysene	ug/L					<8			
Cis-1,2-dichloroethylene	ug/L	2.2	<1.0	2.1	<1.0	1.4		<1.0	2.0
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1		<1	<1
Cobalt, total	ug/L	4.1	2.9	1.1	3.0	2.8		1.5	1.3
Copper, total	ug/L	4.6	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
Cyanide, total	mg/L					<.005			
Delta-bhc	ug/L					<.07			
Diallate	ug/L					<8			
Dibenzo(a,h)anthracene	ug/L					<8			
Dibenzofuran	ug/L					<8			
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Dichlorodifluoromethane	ug/L	3.7	1.1	<1.0	1.4	1.1		1.3	1.0
Dieldrin	ug/L					<.07			
Diethyl phthalate	ug/L					<8			
Dimethoate	ug/L					<.5			
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					<.5			
Endosulfan i	ug/L					<.07			
Endosulfan ii	ug/L					<.07			
Endosulfan sulfate	ug/L					<.07			
Endrin	ug/L					<.07			
Endrin aldehyde	ug/L					<.07			
Ethyl methacrylate	ug/L					<10			
Ethyl methanesulfonate	ug/L					<8			
Ethylbenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Famphur	ug/L					<.5			
Fluoranthene	ug/L					<8			
Fluorene	ug/L					<8			
Gamma-bhc (lindane)	ug/L					<.07			
Heptachlor	ug/L					<.07			
Heptachlor epoxide	ug/L					<.07			

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

Table 9

Analytical Data Summary for MW-4

Constituents	3/21/2018	9/7/2018	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	12/3/2021
Anthracene								<8	
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	
Arochlor 1016								<.10	
Arochlor 1221								<.20	
Arochlor 1232								<.20	
Arochlor 1242								<.20	
Arochlor 1248								<.20	
Arochlor 1254								<.10	
Arochlor 1260								<.10	
Arsenic, total	88.0	62.2	27.1	74.2	62.7	57.0	61.6	69.7	
Azobenzene								<8	
Barium, total	1120	1100	1070	1270	1220	1220	1100	1140	
Benzene	1.5	<1.0	1.0	<1.0	1.2	1.3	1.6	1.4	
Benzo(a)anthracene								<8	
Benzo(a)pyrene								<8	
Benzo(b)fluoranthene								<8	
Benzo(g,h,i)perylene								<8	
Benzo(k)fluoranthene								<8	
Benzyl alcohol								<8	
Beryllium, total	<4	<4	<4	<4	<4	<4	<4	<4	
Beta-bhc								<.05	
Bis (2-chloroethoxy) methane								<8	
Bis(2-chloroethyl) ether								<8	
Bis(2-chloroisopropyl) ether								<8	
Bis(2-ethylhexyl) phthalate								12	
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	
Butyl benzyl phthalate								<8	
Cadmium, total	<.8	1.7	<.8	<.8	<.8	<.8	<.8	1.3	
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	
Chlordane								<.10	
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	
Chlorobenzilate								<8	
Chloroethane	2.4	2.5	2.1	2.9	1.5	5.0	1.4	2.4	
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	
Chloroprene								<1	
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	
Chrysene								<8	
Cis-1,2-dichloroethylene	<1.0	<1.0	<1.0	3.2	<1.0	1.6	<1.0	2.1	
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	
Cobalt, total	1.4	1.4	<.8	1.2	1.3	1.7	1.3	7.5	
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	6.7	<4.0
Cyanide, total								<.005	
Delta-bhc								<.05	
Diallate								<8	
Dibenzo(a,h)anthracene								<8	
Dibenzofuran								<8	
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	
Dichlorodifluoromethane	<1.0	<1.0	2.6	<1.0	1.1	<1.0	<1.0	<1.0	
Dieldrin								<.05	
Diethyl phthalate								<8	
Dimethoate								<.4	
Dimethylphthalate								<8	
Di-n-butyl phthalate								<8	
Di-n-octyl phthalate								<8	
Dinoseb								<.7	
Diphenylamine								<8	
Disulfoton								<.4	
Endosulfan i								<.05	
Endosulfan ii								<.05	
Endosulfan sulfate								<.05	
Endrin								<.05	
Endrin aldehyde								<.05	
Ethyl methacrylate								<10	
Ethyl methanesulfonate								<8	
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	
Famphur								<.4	
Fluoranthene								<8	
Fluorene								<8	
Gamma-bhc (lindane)								<.05	
Heptachlor								<.05	
Heptachlor epoxide								<.05	

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

Table 9

Analytical Data Summary for MW-4

Constituents	3/8/2022	8/30/2022	3/7/2023	9/11/2023
Anthracene				
Antimony, total	<2	<2	<2	<2
Arochlor 1016				
Arochlor 1221				
Arochlor 1232				
Arochlor 1242				
Arochlor 1248				
Arochlor 1254				
Arochlor 1260				
Arsenic, total	59.6	93.6	50.8	60.7
Azobenzene				
Barium, total	931	995	890	1010
Benzene	1.7	1.2	1.5	1.7
Benzo(a)anthracene				
Benzo(a)pyrene				
Benzo(b)fluoranthene				
Benzo(g,h,i)perylene				
Benzo(k)fluoranthene				
Benzyl alcohol				
Beryllium, total	<4	<4	<4	<4
Beta-bhc				
Bis (2-chloroethoxy) methane				
Bis(2-chloroethyl) ether				
Bis(2-chloroisopropyl) ether				
Bis(2-ethylhexyl) phthalate				
Bromochloromethane	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1
Butyl benzyl phthalate				
Cadmium, total	<.8	<.8	<.8	1.8
Carbon disulfide	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1
Chlordane				
Chlorobenzene	<1	<1	<1	<1
Chlorobenzilate				
Chloroethane	1.2	1.9	1.4	2.0
Chloroform	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1
Chloroprene				
Chromium, total	<8.0	<8.0	<8.0	33.9
Chrysene				
Cis-1,2-dichloroethylene	<1.0	4.5	<1.0	2.7
Cis-1,3-dichloropropene	<1	<1	<1	<1
Cobalt, total	1.7	1.4	1.6	10.9
Copper, total	<4.0	<4.0	<4.0	8.7
Cyanide, total				
Delta-bhc				
Diallate				
Dibenzo(a,h)anthracene				
Dibenzofuran				
Dibromochloromethane	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1
Dichlorodifluoromethane	<1.0			
Dieldrin				
Diethyl phthalate				
Dimethoate				
Dimethylphthalate				
Di-n-butyl phthalate				
Di-n-octyl phthalate				
Dinoseb				
Diphenylamine				
Disulfoton				
Endosulfan i				
Endosulfan ii				
Endosulfan sulfate				
Endrin				
Endrin aldehyde				
Ethyl methacrylate				
Ethyl methanesulfonate				
Ethylbenzene	<1	<1	<1	<1
Famphur				
Fluoranthene				
Fluorene				
Gamma-bhc (lindane)				
Heptachlor				
Heptachlor epoxide				

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

Table 9

Analytical Data Summary for MW-4

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	11/8/2016	4/24/2017	10/9/2017
Hexachlorobenzene	ug/L					<.07			
Hexachlorobutadiene	ug/L					<8			
Hexachlorocyclopentadiene	ug/L					<8			
Hexachloroethane	ug/L					<8			
Hexachloropropene	ug/L					<8			
Indeno(1,2,3-cd)pyrene	ug/L					<8			
Isobutanol	ug/L					<1000			
Isodrin	ug/L					<8			
Isophorone	ug/L					<8			
Isosafrole	ug/L					<8			
Kepone	ug/L					<8			
Lead, total	ug/L	<4	<4	<4	<4	<4		<4	<4
Mercury, total	ug/L					<.5			
Methacrylonitrile	ug/L					<1			
Methapyrilene	ug/L					<8			
Methoxychlor	ug/L					<.07			
Methyl iodide	ug/L	<1	<1	<1	<1	<1		<1	<1
Methyl methacrylate	ug/L					<1			
Methyl methanesulfonate	ug/L					<8			
Methyl parathion	ug/L					<.5			
Methylene chloride	ug/L	<5	<5	<5	<5	<5		<5	<5
Naphthalene	ug/L					<8			
Nickel, total	ug/L	11.3	7.3	<4.0	7.5	<4.0		<4.0	<4.0
Nitrobenzene	ug/L					<8			
N-nitrosodiethylamine	ug/L					<8			
N-nitrosodimethylamine	ug/L					<8			
N-nitrosodi-n-butylamine	ug/L					<8			
N-nitroso-di-n-propylamine	ug/L					<8			
N-nitrosodiphenylamine	ug/L					<8			
N-nitrosomethylethylamine	ug/L					<8			
N-nitrosopiperidine	ug/L					<8			
N-nitrosopyrrolidine	ug/L					<8			
O,o,o-triethyl phosphorothioate	ug/L					<.5			
O-toluidine	ug/L					<8			
Parathion	ug/L					<.5			
P-dimethylaminoazobenzene	ug/L					<8			
Pentachlorobenzene	ug/L					<8			
Pentachloronitrobenzene (pcnb)	ug/L					<8			
Pentachlorophenol	ug/L					<8			
Phenacetin	ug/L					<8			
Phenanthrene	ug/L					<8			
Phenol	ug/L					<8			
Phorate	ug/L					<.5			
Pronamide	ug/L					<8			
Propionitrile	ug/L					<10			
Pyrene	ug/L					<8			
Safrole	ug/L					<8			
Selenium, total	ug/L	<4	<4	<4	<4	<4		<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4		<4	<4
Solids, total suspended	mg/L	198	166	151	98	227		136	218
Styrene	ug/L	<1	<1	<1	<1	<1		<1	<1
Sulfide, total	mg/L					<.1			
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
Thallium, total	ug/L	<4	<4	<1	<4	<4		<4	<4
Thionazin	ug/L					<.5			
Tin, total	ug/L					<20			
Toluene	ug/L	<1	<1	<1	<1	<1		<1	<1
Toxaphene	ug/L					<.29			
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5		<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20		<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5		<5	<5
Vinyl chloride	ug/L	4.9	1.3	2.3	<1.0	2.2		<1.0	1.8
Xylenes, total	ug/L	<2	<2	<2	<2	<2		<2	<2
Zinc, total	ug/L	<20.0	<8.0	11.1	10.9	10.7		<8.0	<8.0

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

Table 9

Analytical Data Summary for MW-4

Constituents	3/21/2018	9/7/2018	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	12/3/2021
Hexachlorobenzene								<.05	
Hexachlorobutadiene								<8	
Hexachlorocyclopentadiene								<8	
Hexachloroethane								<8	
Hexachloropropene								<8	
Indeno(1,2,3-cd)pyrene								<8	
Isobutanol								<1000	
Isodrin								<8	
Isophorone								<8	
Isosafrole								<8	
Kepone								<8	
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	
Mercury, total								<.5	
Methacrylonitrile								<1	
Methapyrilene								<8	
Methoxychlor								<.05	
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<2	
Methyl methacrylate								<1	
Methyl methanesulfonate								<8	
Methyl parathion								<.4	
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	
Naphthalene								<8	
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	26.4	5.2
Nitrobenzene								<8	
N-nitrosodiethylamine								<8	
N-nitrosodimethylamine								<8	
N-nitrosodi-n-butylamine								<8	
N-nitroso-di-n-propylamine								<8	
N-nitrosodiphenylamine								<8	
N-nitrosomethylethylamine								<8	
N-nitrosopiperidine								<8	
N-nitrosopyrrolidine								<8	
O,o,o-triethyl phosphorothioate								<.4	
O-toluidine								<8	
Parathion								<.4	
P-dimethylaminoazobenzene								<8	
Pentachlorobenzene								<8	
Pentachloronitrobenzene (pcnb)								<8	
Pentachlorophenol								<8	
Phenacetin								<8	
Phenanthrene								<8	
Phenol								<8	
Phorate								<.4	
Pronamide								<8	
Propionitrile								<10	
Pyrene								<8	
Safrole								<8	
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	
Sulfide, total								<.1	
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	
Thallium, total	<4	<4	<2	<2	<2	<2	<2	<2	
Thionazin								<.4	
Tin, total								<20	
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	
Toxaphene								<.20	
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	
Vinyl chloride	1.8	1.9	1.8	1.8	1.0	3.3	<1.0	2.8	
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	
Zinc, total	<8.0	109.0	40.9	86.5	<20.0	<20.0	<20.0	29.2	

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

Table 9

Analytical Data Summary for MW-4

Constituents	3/8/2022	8/30/2022	3/7/2023	9/11/2023
Hexachlorobenzene				
Hexachlorobutadiene				
Hexachlorocyclopentadiene				
Hexachloroethane				
Hexachloropropene				
Indeno(1,2,3-cd)pyrene				
Isobutanol				
Isodrin				
Isophorone				
Isosafrole				
Kepone				
Lead, total	<4	<4	<4	<4
Mercury, total				
Methacrylonitrile				
Methapyrilene				
Methoxychlor				
Methyl iodide	<1	<1	<1	<1
Methyl methacrylate				
Methyl methanesulfonate				
Methyl parathion				
Methylene chloride	<5	<5	<5	<5
Naphthalene				
Nickel, total	4.5	4.6	<4.0	52.8
Nitrobenzene				
N-nitrosodiethylamine				
N-nitrosodimethylamine				
N-nitrosodi-n-butylamine				
N-nitroso-di-n-propylamine				
N-nitrosodiphenylamine				
N-nitrosomethylethylamine				
N-nitrosopiperidine				
N-nitrosopyrrolidine				
O,o,o-triethyl phosphorothioate				
O-toluidine				
Parathion				
P-dimethylaminoazobenzene				
Pentachlorobenzene				
Pentachloronitrobenzene (pcnb)				
Pentachlorophenol				
Phenacetin				
Phenanthrene				
Phenol				
Phorate				
Pronamide				
Propionitrile				
Pyrene				
Safrole				
Selenium, total	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4
Solids, total suspended				
Styrene	<1	<1	<1	<1
Sulfide, total				
Tetrachloroethylene	<1	<1	<1	<1
Thallium, total	<2	<2	<2	<2
Thionazin				
Tin, total				
Toluene	<1	<1	<1	<1
Toxaphene				
Trans-1,2-dichloroethylene	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5
Vinyl chloride	<1.0	1.8	<1.0	4.2
Xylenes, total	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	75.7

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

Table 9

Analytical Data Summary for MW-5

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	11/8/2016	4/24/2017	10/9/2017
(3,4)-Methylphenol	ug/L								
(3,4)-methylphenol	ug/L					<8			
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1-dichloropropene	ug/L					<1			
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2,4,5-tetrachlorobenzene	ug/L					<8			
1,2,4-trichlorobenzene	ug/L					<1			
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-dinitrobenzene	ug/L					<8			
1,3,5-trinitrobenzene	ug/L					<8			
1,3-dichlorobenzene	ug/L					<1			
1,3-dichloropropane	ug/L					<1			
1,3-dinitrobenzene	ug/L					<8			
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,4-naphthoquinone	ug/L					<8			
1,4-phenylenediamine	ug/L					<8			
1-naphthylamine	ug/L					<8			
2,2-dichloropropane	ug/L					<1			
2,3,4,6-tetrachlorophenol	ug/L					<8			
2,4,5-t	ug/L					<.5			
2,4,5-tp (silvex)	ug/L					<.5			
2,4,5-trichlorophenol	ug/L					<8			
2,4,6-trichlorophenol	ug/L					<8			
2,4-d	ug/L					<2			
2,4-dichlorophenol	ug/L					<8			
2,4-dimethylphenol	ug/L					<8			
2,4-dinitrophenol	ug/L					<8			
2,4-dinitrotoluene	ug/L					<8			
2,6-dichlorophenol	ug/L					<8			
2,6-dinitrotoluene	ug/L					<8			
2-acetylaminofluorene	ug/L					<8			
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5		<5	<5
2-chloronaphthalene	ug/L					<8			
2-chlorophenol	ug/L					<8			
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5		<5	<5
2-methylnaphthalene	ug/L					<8			
2-methylphenol	ug/L					<8			
2-naphthylamine	ug/L					<8			
2-nitroaniline	ug/L					<8			
2-nitrophenol	ug/L					<8			
3,3'-dichlorobenzidine	ug/L					<8			
3,3'-dimethylbenzidine	ug/L					<8			
3-methylcholanthrene	ug/L					<8			
3-nitroaniline	ug/L					<8			
4,4'-ddd	ug/L					<.05			
4,4'-dde	ug/L					<.05			
4,4'-ddt	ug/L					<.05			
4,6-dinitro-2-methylphenol	ug/L					<8			
4-aminobiphenyl	ug/L					<8			
4-bromophenyl phenyl ether	ug/L					<8			
4-chloro-3-methylphenol	ug/L					<8			
4-chloroaniline	ug/L					<8			
4-chlorophenyl phenyl ether	ug/L					<8			
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5		<5	<5
4-nitroaniline	ug/L					<8			
4-nitrophenol	ug/L					<8			
5-nitro-o-toluidine	ug/L					<8			
7,12-dimethylbenz(a)anthracene	ug/L					<8			
Acenaphthene	ug/L					<8			
Acenaphthylene	ug/L					<8			
Acetone	ug/L	<10	<10	<10	<10	<10		<10	<10
Acetonitrile	ug/L					<10			
Acetophenone	ug/L					<8			
Acrolein	ug/L					<10			
Acrylonitrile	ug/L	<5	<5	<5	<5	<5		<5	<5
Aldrin	ug/L					<.05			
Allyl chloride	ug/L					<1			
Alpha-bhc	ug/L					<.05			

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

Table 9

Analytical Data Summary for MW-5

Constituents	3/21/2018	9/7/2018	4/2/2019	6/5/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022
(3 4)-Methylphenol						<8				
(34) -methylphenol					<8					
1,1,1,2-tetrachloroethane	<1	<1	<1		<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1		<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1		<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1		<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1		<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1		<1	<1	<1	<1	<1	<1
1,1-dichloropropene					<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1		<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene					<8	<8				
1,2,4-trichlorobenzene					<1	<1				
1,2-dibromo-3-chloropropane	<1	<1	<1		<1	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1		<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1		<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1		<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene					<8	<8				
1,3,5-trinitrobenzene					<8	<8				
1,3-dichlorobenzene					<1	<1				
1,3-dichloropropane					<1	<1				
1,3-dinitrobenzene					<8	<8				
1,4-dichlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1	<1
1,4-naphthoquinone					<8	<8				
1,4-phenylenediamine					<8	<8				
1-naphthylamine					<8	<8				
2,2-dichloropropane					<1	<1				
2,3,4,6-tetrachlorophenol					<8	<8				
2,4,5-t					<5	<5				
2,4,5-tp (silvex)					<5	<5				
2,4,5-trichlorophenol					<8	<8				
2,4,6-trichlorophenol					<8	<8				
2,4-d					<2	<2				
2,4-dichlorophenol					<8	<8				
2,4-dimethylphenol					<8	<8				
2,4-dinitrophenol					<8	<8				
2,4-dinitrotoluene					<8	<8				
2,6-dichlorophenol					<8	<8				
2,6-dinitrotoluene					<8	<8				
2-acetylaminofluorene					<8	<8				
2-butanone (mek)	<5	<5	<5		<5	<5	<5	<5	<5	<10
2-chloronaphthalene					<8	<8				
2-chlorophenol					<8	<8				
2-hexanone (mbk)	<5	<5	<5		<5	<5	<5	<5	<5	<5
2-methylnaphthalene					<8	<8				
2-methylphenol					<8	<8				
2-naphthylamine					<8	<8				
2-nitroaniline					<8	<8				
2-nitrophenol					<8	<8				
3,3'-dichlorobenzidine					<8	<8				
3,3'-dimethylbenzidine					<8	<8				
3-methylcholanthrene					<8	<8				
3-nitroaniline					<8	<8				
4,4'-ddd					<.05	<.05	<.05	<.05	<.05	<.05
4,4'-dde					<.05	<.05	<.05	<.05	<.05	<.05
4,4'-ddt					<.05	<.05	<.05	<.05	<.05	<.05
4,6-dinitro-2-methylphenol					<8	<8				
4-aminobiphenyl					<8	<8				
4-bromophenyl phenyl ether					<8	<8				
4-chloro-3-methylphenol					<8	<8				
4-chloroaniline					<8	<8				
4-chlorophenyl phenyl ether					<8	<8				
4-methyl-2-pentanone (mibk)	<5	<5	<5		<5	<5	<5	<5	<5	<5
4-nitroaniline					<8	<8				
4-nitrophenol					<8	<8				
5-nitro-o-toluidine					<8	<8				
7,12-dimethylbenz(a)anthracene					<8	<8				
Acenaphthene					<8	<8				
Acenaphthylene					<8	<8				
Acetone	<10	<10	<10		<10	<10	<10	<10	<10	<10
Acetonitrile					<10	<10				
Acetophenone					<8	<8				
Acrolein					<10	<10				
Acrylonitrile	<5	<5	<5		<5	<5	<5	<5	<5	<5
Aldrin					<.05	<.05	<.05	<.05	<.05	<.05
Allyl chloride					<1	<1				
Alpha-bhc					<.05	8.52	<.05			

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

Table 9

Analytical Data Summary for MW-5

Constituents	8/30/2022	3/7/2023	9/11/2023
(3 4)-Methylphenol			
(34) -methylphenol			
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-dichloroethylene	<1	<1	<1
1,1-dichloropropene			
1,2,3-trichloropropane	<1	<1	<1
1,2,4,5-tetrachlorobenzene			
1,2,4-trichlorobenzene			
1,2-dibromo-3-chloropropane	<5	<5	<5
1,2-dibromoethane	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1
1,2-dichloroethane	<1	<1	<1
1,2-dichloropropane	<1	<1	<1
1,2-dinitrobenzene			
1,3,5-trinitrobenzene			
1,3-dichlorobenzene			
1,3-dichloropropane			
1,3-dinitrobenzene			
1,4-dichlorobenzene	<1	<1	<1
1,4-naphthoquinone			
1,4-phenylenediamine			
1-naphthylamine			
2,2-dichloropropane			
2,3,4,6-tetrachlorophenol			
2,4,5-t			
2,4,5-tp (silvex)			
2,4,5-trichlorophenol			
2,4,6-trichlorophenol			
2,4-d			
2,4-dichlorophenol			
2,4-dimethylphenol			
2,4-dinitrophenol			
2,4-dinitrotoluene			
2,6-dichlorophenol			
2,6-dinitrotoluene			
2-acetylaminofluorene			
2-butanone (mek)	<10	<10	<10
2-chloronaphthalene			
2-chlorophenol			
2-hexanone (mbk)	<5	<5	<5
2-methylnaphthalene			
2-methylphenol			
2-naphthylamine			
2-nitroaniline			
2-nitrophenol			
3,3'-dichlorobenzidine			
3,3'-dimethylbenzidine			
3-methylcholanthrene			
3-nitroaniline			
4,4'-ddd			
4,4'-dde			
4,4'-ddt			
4,6-dinitro-2-methylphenol			
4-aminobiphenyl			
4-bromophenyl phenyl ether			
4-chloro-3-methylphenol			
4-chloroaniline			
4-chlorophenyl phenyl ether			
4-methyl-2-pentanone (mibk)	<5	<5	<5
4-nitroaniline			
4-nitrophenol			
5-nitro-o-toluidine			
7,12-dimethylbenz(a)anthracene			
Acenaphthene			
Acenaphthylene			
Acetone	<10	<10	<10
Acetonitrile			
Acetophenone			
Acrolein			
Acrylonitrile	<5	<5	<5
Aldrin			
Allyl chloride			
Alpha-bhc			

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

Table 9

Analytical Data Summary for MW-5

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	11/8/2016	4/24/2017	10/9/2017
Anthracene	ug/L					<8			
Antimony, total	ug/L	<2	<2	<2	<2	<2		<2	<2
Arochlor 1016	ug/L					<1			
Arochlor 1221	ug/L					<2			
Arochlor 1232	ug/L					<2			
Arochlor 1242	ug/L					<2			
Arochlor 1248	ug/L					<2			
Arochlor 1254	ug/L					<1			
Arochlor 1260	ug/L					<1			
Arsenic, total	ug/L	8.0	4.3	61.9	11.9	12.6		17.4	22.4
Azobenzene	ug/L					<8			
Barium, total	ug/L	154	158	174	179	194		207	155
Benzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Benzo(a)anthracene	ug/L					<8			
Benzo(a)pyrene	ug/L					<8			
Benzo(b)fluoranthene	ug/L					<8			
Benzo(g,h,i)perylene	ug/L					<8			
Benzo(k)fluoranthene	ug/L					<8			
Benzyl alcohol	ug/L					<8			
Beryllium, total	ug/L	<4	<4	<4	<4	<4		<4	<4
Beta-bhc	ug/L					<.05			
Bis (2-chloroethoxy) methane	ug/L					<8			
Bis(2-chloroethyl) ether	ug/L					<8			
Bis(2-chloroisopropyl) ether	ug/L					<8			
Bis(2-ethylhexyl) phthalate	ug/L					10	<10		
Bromochloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Butyl benzyl phthalate	ug/L					<8			
Cadmium, total	ug/L	<8	<8	<8	.9	<8		<8	2.6
Carbon disulfide	ug/L	<1	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1		<1	<1
Chlordane	ug/L					<1			
Chlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate	ug/L					<8			
Chloroethane	ug/L	3.2	<1.0	2.0	2.7	<1.0		1.9	<1.0
Chloroform	ug/L	<1	<1	<1	<1	<1		<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Chloroprene	ug/L					<1			
Chromium, total	ug/L	<8	<8	<8	<8	<8		<8	<8
Chrysene	ug/L					<8			
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1		<1	<1
Cobalt, total	ug/L	9.7	5.5	5.0	5.2	8.7		6.0	4.8
Copper, total	ug/L	4.0	<4.0	4.2	<4.0	7.7		<4.0	4.7
Cyanide, total	mg/L					<.005			
Delta-bhc	ug/L					<.05			
Diallate	ug/L					<8			
Dibenzo(a,h)anthracene	ug/L					<8			
Dibenzofuran	ug/L					<8			
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Dichlorodifluoromethane	ug/L					<1			
Dieldrin	ug/L					<.05			
Diethyl phthalate	ug/L					<8			
Dimethoate	ug/L					<4			
Dimethylphthalate	ug/L					<8			
Di-n-butyl phthalate	ug/L					<8			
Di-n-octyl phthalate	ug/L					64	<10		
Dinoseb	ug/L					<.5			
Diphenylamine	ug/L					<8			
Disulfoton	ug/L					<4			
Endosulfan i	ug/L					<.05			
Endosulfan ii	ug/L					<.05			
Endosulfan sulfate	ug/L					<.05			
Endrin	ug/L					<.05			
Endrin aldehyde	ug/L					<.05			
Ethyl methacrylate	ug/L					<10			
Ethyl methanesulfonate	ug/L					<8			
Ethylbenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Famphur	ug/L					<4			
Fluoranthene	ug/L					<8			
Fluorene	ug/L					<8			
Gamma-bhc (lindane)	ug/L					<.05			
Heptachlor	ug/L					<.05			
Heptachlor epoxide	ug/L					<.05			

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

Table 9

Analytical Data Summary for MW-5

Constituents	3/21/2018	9/7/2018	4/2/2019	6/5/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022
Anthracene					<8	<8				
Antimony, total	<2	<2	<2		<2	<2	<2	<2	<2	<2
Arochlor 1016					<.1	<.1				
Arochlor 1221					<.2	<.2				
Arochlor 1232					<.2	<.2				
Arochlor 1242					<.2	<.2				
Arochlor 1248					<.2	<.2				
Arochlor 1254					<.1	<.1				
Arochlor 1260					<.1	<.1				
Arsenic, total	<4.0	10.1	6.6		18.7	30.8	41.9	14.6	76.7	12.1
Azobenzene					<8	<8				
Barium, total	144	186	197		225	255	221	227	260	201
Benzene	<1	<1	<1		<1	<1	<1	<1	<1	<1
Benzo(a)anthracene					<8	<8				
Benzo(a)pyrene					<8	<8				
Benzo(b)fluoranthene					<8	<8				
Benzo(g,h,i)perylene					<8	<8				
Benzo(k)fluoranthene					<8	<8				
Benzyl alcohol					<8	<8				
Beryllium, total	<4	<4	<4		<4	<4	<4	<4	<4	<4
Beta-bhc					<.05	<.05	<.05			
Bis (2-chloroethoxy) methane					<8	<8				
Bis(2-chloroethyl) ether					<8	<8				
Bis(2-chloroisopropyl) ether					<8	<8				
Bis(2-ethylhexyl) phthalate					<6	8		<6	<6	<6
Bromochloromethane	<1	<1	<1		<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1		<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1		<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1		<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate					<8	<8				
Cadmium, total	<.8	<.8	.8		<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1		<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1		<1	<1	<1	<1	<1	<1
Chlordane					<.1	<.1	<.1	<.1	<.1	<.1
Chlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1	<1
Chlorobenzilate					<8	<8				
Chloroethane	<1.0	<1.0	1.0	1.3	2.0	2.0	1.9	1.8	<1.0	<1.0
Chloroform	<1	<1	<1		<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1		<1	<1	<1	<1	<1	<1
Chloroprene					<1	<1				
Chromium, total	<8	<8	<8		<8	<8	<8	<8	<8	<8
Chrysene					<8	<8				
Cis-1,2-dichloroethylene	<1	<1	<1		<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1		<1	<1	<1	<1	<1	<1
Cobalt, total	4.3	4.9	9.3		3.8	4.1	2.4	5.3	3.1	1.6
Copper, total	<4.0	<4.0	<4.0		<4.0	<4.0	4.4	<4.0	<4.0	5.0
Cyanide, total					<.005	<.005				
Delta-bhc					<.05	<.05	<.05			
Diallate					<8	<8				
Dibenzo(a,h)anthracene					<8	<8				
Dibenzofuran					<8	<8				
Dibromochloromethane	<1	<1	<1		<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1		<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane					<1	<1				
Dieldrin					<.05	<.05	<.05			
Diethyl phthalate					<8	<8				
Dimethoate					<.4	<.4				
Dimethylphthalate					<8	<8				
Di-n-butyl phthalate					<8	<8				
Di-n-octyl phthalate					<8	<8				
Dinoseb					<.5	<.5				
Diphenylamine					<8	<8				
Disulfoton					<.4	<.4				
Endosulfan i					<.05	<.05	<.05	<.05	<.05	<.05
Endosulfan ii					<.05	<.05	<.05	<.05	<.05	<.05
Endosulfan sulfate					<.05	<.05	<.05	<.05	<.05	<.05
Endrin					<.05	<.05	<.05	<.05	<.05	<.05
Endrin aldehyde					<.05	<.05	<.05	<.05	<.05	<.05
Ethyl methacrylate					<10	<10				
Ethyl methanesulfonate					<8	<8				
Ethylbenzene	<1	<1	<1		<1	<1	<1	<1	<1	<1
Famphur					<.4	<.4				
Fluoranthene					<8	<8				
Fluorene					<8	<8				
Gamma-bhc (lindane)					<.05	<.05	<.05	<.05	<.05	<.05
Heptachlor					<.05	<.05	<.05	<.05	<.05	<.05
Heptachlor epoxide					<.05	<.05	<.05	<.05	<.05	<.05

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

Table 9

Analytical Data Summary for MW-5

Constituents	8/30/2022	3/7/2023	9/11/2023
Anthracene			
Antimony, total	<2	<2	<2
Arochlor 1016			
Arochlor 1221			
Arochlor 1232			
Arochlor 1242			
Arochlor 1248			
Arochlor 1254			
Arochlor 1260			
Arsenic, total	412.0	83.0	71.1
Azobenzene			
Barium, total	400	460	302
Benzene	<1	<1	<1
Benzo(a)anthracene			
Benzo(a)pyrene			
Benzo(b)fluoranthene			
Benzo(g,h,i)perylene			
Benzo(k)fluoranthene			
Benzyl alcohol			
Beryllium, total	<4	<4	<4
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	<1	<1
Butyl benzyl phthalate			
Cadmium, total	1.5	<8	<.8
Carbon disulfide	<1	<1	<1
Carbon tetrachloride	<1	<1	<1
Chlordane			
Chlorobenzene	<1	<1	<1
Chlorobenzilate			
Chloroethane	2.7	3.1	<1.0
Chloroform	<1	<1	<1
Chloromethane	<1	<1	<1
Chloroprene			
Chromium, total	<8	<8	<8
Chrysene			
Cis-1,2-dichloroethylene	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1
Cobalt, total	3.4	5.2	2.7
Copper, total	45.5	9.2	9.6
Cyanide, total			
Delta-bhc			
Diallylate			
Dibenzo(a,h)anthracene			
Dibenzofuran			
Dibromochloromethane	<1	<1	<1
Dibromomethane	<1	<1	<1
Dichlorodifluoromethane			
Dieldrin			
Diethyl phthalate			
Dimethoate			
Dimethylphthalate			
Di-n-butyl phthalate			
Di-n-octyl phthalate			
Dinoseb			
Diphenylamine			
Disulfoton			
Endosulfan i			
Endosulfan ii			
Endosulfan sulfate			
Endrin			
Endrin aldehyde			
Ethyl methacrylate			
Ethyl methanesulfonate			
Ethylbenzene	<1	<1	<1
Famphur			
Fluoranthene			
Fluorene			
Gamma-bhc (lindane)			
Heptachlor			
Heptachlor epoxide			

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

Table 9

Analytical Data Summary for MW-5

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	11/8/2016	4/24/2017	10/9/2017
Hexachlorobenzene	ug/L					<.05			
Hexachlorobutadiene	ug/L					<8			
Hexachlorocyclopentadiene	ug/L					<8			
Hexachloroethane	ug/L					<8			
Hexachloropropene	ug/L					<8			
Indeno(1,2,3-cd)pyrene	ug/L					<8			
Isobutanol	ug/L					<1000			
Isodrin	ug/L					<8			
Isophorone	ug/L					<8			
Isosafrole	ug/L					<8			
Kepone	ug/L					<8			
Lead, total	ug/L	<4	<4	<4	<4	<4		<4	<4
Mercury, total	ug/L					<.5			
Methacrylonitrile	ug/L					<1			
Methapyrilene	ug/L					<8			
Methoxychlor	ug/L					<.05			
Methyl iodide	ug/L	<1	<1	<1	<1	<1		<1	<1
Methyl methacrylate	ug/L					<1			
Methyl methanesulfonate	ug/L					<8			
Methyl parathion	ug/L					<4			
Methylene chloride	ug/L	<5	<5	<5	<5	<5		<5	<5
Naphthalene	ug/L					<8			
Nickel, total	ug/L	11.5	7.0	5.7	5.3	9.5		6.5	7.9
Nitrobenzene	ug/L					<8			
N-nitrosodiethylamine	ug/L					<8			
N-nitrosodimethylamine	ug/L					<8			
N-nitrosodi-n-butylamine	ug/L					<8			
N-nitroso-di-n-propylamine	ug/L					<8			
N-nitrosodiphenylamine	ug/L					<8			
N-nitrosomethylethylamine	ug/L					<8			
N-nitrosopiperidine	ug/L					<8			
N-nitrosopyrrolidine	ug/L					<8			
O,o,o-triethyl phosphorothioate	ug/L					<4			
O-toluidine	ug/L					<8			
Parathion	ug/L					<4			
P-dimethylaminoazobenzene	ug/L					<8			
Pentachlorobenzene	ug/L					<8			
Pentachloronitrobenzene (pcnb)	ug/L					<8			
Pentachlorophenol	ug/L					<8			
Phenacetin	ug/L					<8			
Phenanthrene	ug/L					<8			
Phenol	ug/L					<8			
Phorate	ug/L					<4			
Pronamide	ug/L					<8			
Propionitrile	ug/L					<10			
Pyrene	ug/L					<8			
Safrole	ug/L					<8			
Selenium, total	ug/L	<4	<4	<4	<4	<4		<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4		<4	<4
Solids, total suspended	mg/L	33	13	57	43	34		48	90
Styrene	ug/L	<1	<1	<1	<1	<1		<1	<1
Sulfide, total	mg/L					<1			
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
Thallium, total	ug/L	<4	<4	<1	<4	<4		<4	<4
Thionazin	ug/L					<4			
Tin, total	ug/L					<20			
Toluene	ug/L	<1	<1	<1	<1	<1		<1	<1
Toxaphene	ug/L					<2			
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5		<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20		<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5		<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2		<2	<2
Zinc, total	ug/L	<20.0	<8.0	8.9	<8.0	9.2		<8.0	<8.0

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

Table 9

Analytical Data Summary for MW-5

Constituents	3/21/2018	9/7/2018	4/2/2019	6/5/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022
Hexachlorobenzene					<.05	<.05	<.05			
Hexachlorobutadiene					<8	<8				
Hexachlorocyclopentadiene					<8	<8				
Hexachloroethane					<8	<8				
Hexachloropropene					<8	<8				
Indeno(1,2,3-cd)pyrene					<8	<8				
Isobutanol					<1000	<1000				
Isodrin					<8	<8				
Isophorone					<8	<8				
Isosafrole					<8	<8				
Kepone					<8	<8				
Lead, total	<4	<4	<4		<4	<4	<4	<4	<4	<4
Mercury, total					<.5	<.5				
Methacrylonitrile					<1	<1				
Methapyrilene					<8	<8				
Methoxychlor					<.05	<.05	<.05			
Methyl iodide	<1	<1	<1		<1	<1	<1	<1	<1	<1
Methyl methacrylate					<1	<1				
Methyl methanesulfonate					<8	<8				
Methyl parathion					<.4	<.4				
Methylene chloride	<5	<5	<5		<5	<5	<5	<5	<5	<5
Naphthalene					<8	<8				
Nickel, total	6.3	5.8	21.4	13.7	5.1	6.3	4.8	8.5	4.9	6.1
Nitrobenzene					<8	<8				
N-nitrosodiethylamine					<8	<8				
N-nitrosodimethylamine					<8	<8				
N-nitrosodi-n-butylamine					<8	<8				
N-nitroso-di-n-propylamine					<8	<8				
N-nitrosodiphenylamine					<8	<8				
N-nitrosomethylethylamine					<8	<8				
N-nitrosopiperidine					<8	<8				
N-nitrosopyrrolidine					<8	<8				
O,o,o-triethyl phosphorothioate					<.4	<.4				
O-toluidine					<8	<8				
Parathion					<.4	<.4				
P-dimethylaminoazobenzene					<8	<8				
Pentachlorobenzene					<8	<8				
Pentachloronitrobenzene (pcnb)					<8	<8				
Pentachlorophenol					<8	<8				
Phenacetin					<8	<8				
Phenanthrene					<8	<8				
Phenol					<8	<8				
Phorate					<.4	<.4				
Pronamide					<8	<8				
Propionitrile					<10	<10				
Pyrene					<8	<8				
Safrole					<8	<8				
Selenium, total	<4	<4	<4		<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4		<4	<4	<4	<4	<4	<4
Solids, total suspended										
Styrene	<1	<1	<1		<1	<1	<1	<1	<1	<1
Sulfide, total					<.1	<.1				
Tetrachloroethylene	<1	<1	<1		<1	<1	<1	<1	<1	<1
Thallium, total	<4	<4	<2		<2	<2	<2	<2	<2	<2
Thionazin					<.4	<.4				
Tin, total					<20	<20				
Toluene	<1	<1	<1		<1	<1	<1	<1	<1	<1
Toxaphene					<.2	<.2	<.2			
Trans-1,2-dichloroethylene	<1	<1	<1		<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1		<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5		<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1		<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1		<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20		<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5		<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1		<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2		<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	81.1	21.1		16.4	<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-5

Constituents	8/30/2022	3/7/2023	9/11/2023
Hexachlorobenzene			
Hexachlorobutadiene			
Hexachlorocyclopentadiene			
Hexachloroethane			
Hexachloropropene			
Indeno(1,2,3-cd)pyrene			
Isobutanol			
Isodrin			
Isophorone			
Isosafrole			
Kepone			
Lead, total	<4	<4	<4
Mercury, total			
Methacrylonitrile			
Methapyrilene			
Methoxychlor			
Methyl iodide	<1	<1	<1
Methyl methacrylate			
Methyl methanesulfonate			
Methyl parathion			
Methylene chloride	<5	<5	<5
Naphthalene			
Nickel, total	5.6	8.7	<4.0
Nitrobenzene			
N-nitrosodiethylamine			
N-nitrosodimethylamine			
N-nitrosodi-n-butylamine			
N-nitroso-di-n-propylamine			
N-nitrosodiphenylamine			
N-nitrosomethylethylamine			
N-nitrosopiperidine			
N-nitrosopyrrolidine			
O,o,o-triethyl phosphorothioate			
O-toluidine			
Parathion			
P-dimethylaminoazobenzene			
Pentachlorobenzene			
Pentachloronitrobenzene (pcnb)			
Pentachlorophenol			
Phenacetin			
Phenanthrene			
Phenol			
Phorate			
Pronamide			
Propionitrile			
Pyrene			
Safrole			
Selenium, total	<4	<4	<4
Silver, total	<4	<4	<4
Solids, total suspended			
Styrene	<1	<1	<1
Sulfide, total			
Tetrachloroethylene	<1	<1	<1
Thallium, total	<2	<2	<2
Thionazin			
Tin, total			
Toluene	<1	<1	<1
Toxaphene			
Trans-1,2-dichloroethylene	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5
Trichloroethylene	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1
Vanadium, total	<20	<20	<20
Vinyl acetate	<5	<5	<5
Vinyl chloride	<1	<1	<1
Xylenes, total	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW-9

Constituents	Units	10/16/2014	4/4/2015	10/1/2015	4/4/2016	9/20/2016	4/24/2017	10/9/2017	3/21/2018	6/11/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	6.1	8.4	8.9	5.9	<4.0	<4.0	<4.0	<4.0	<4.0
Barium, total	ug/L	271	291	291	259	267	264	253	266	
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	<8	<8	1.5	<8	<8	<8	<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	5.8	6.0	4.6	5.7	6.4	5.2	4.9	5.3	
Copper, total	ug/L	4.3	26.3	<4.0	5.3	8.4	<4.0	<4.0	18.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	12.4	11.8	8.6	11.2	8.2	10.9	11.0	10.9	
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L	28	15	12	7	18	51	41		
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4	<4	<1	<4	<4	<4	<4	<4	<4
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<20.0	<8.0	9.8	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW-9

Constituents	9/7/2018	4/2/2019	9/18/2019	3/25/2020	9/15/2020	3/8/2021	9/28/2021	3/8/2022	8/30/2022	3/7/2023
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	12.2	<4.0	19.4	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Barium, total	290	270	332	272	285	292	259	291	241	269
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	5.4	5.4	5.7	5.3	5.8	5.1	4.8	5.1	5.0	4.8
Copper, total	<4.0	<4.0	7.1	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	10.6	11.0	11.6	11.0	11.2	10.1	9.5	10.6	9.8	10.0
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended										
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4	<2	<2	<2	<2	<2	<2	<2	<2	2
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	73.9	<20.0	27.7	<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-9

Constituents	9/11/2023
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-dichloroethylene	<1
1,2,3-trichloropropane	<1
1,2-dibromo-3-chloropropane	<5
1,2-dibromoethane	<1
1,2-dichlorobenzene	<1
1,2-dichloroethane	<1
1,2-dichloropropane	<1
1,4-dichlorobenzene	<1
2-butanone (mek)	<10
2-hexanone (mbk)	<5
4-methyl-2-pentanone (mibk)	<5
Acetone	<10
Acrylonitrile	<5
Antimony, total	<2
Arsenic, total	7.2
Barium, total	288
Benzene	<1
Beryllium, total	<4
Bromochloromethane	<1
Bromodichloromethane	<1
Bromoform	<1
Bromomethane	<1
Cadmium, total	<.8
Carbon disulfide	<1
Carbon tetrachloride	<1
Chlorobenzene	<1
Chloroethane	<1
Chloroform	<1
Chloromethane	<1
Chromium, total	<8
Cis-1,2-dichloroethylene	<1
Cis-1,3-dichloropropene	<1
Cobalt, total	5.3
Copper, total	<4.0
Dibromochloromethane	<1
Dibromomethane	<1
Ethylbenzene	<1
Lead, total	<4
Methyl iodide	<1
Methylene chloride	<5
Nickel, total	9.8
Selenium, total	<4
Silver, total	<4
Solids, total suspended	
Styrene	<1
Tetrachloroethylene	<1
Thallium, total	<2
Toluene	<1
Trans-1,2-dichloroethylene	<1
Trans-1,3-dichloropropene	<1
Trans-1,4-dichloro-2-butene	<5
Trichloroethylene	<1
Trichlorofluoromethane	<1
Vanadium, total	<20
Vinyl acetate	<5
Vinyl chloride	<1
Xylenes, total	<2
Zinc, total	<20.0

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

Table 10 – Historic SSI and SSL
(NOT USED)

Table 11 – Corrective Action Trend Analysis
(NOT USED)

Table 12 – Gas Monitoring Summary

Table 12
South Dallas County Sanitary Landfill
25-SDP-01-75P
EXPLOSIVE GAS MONITORING

	3/23/2023	6/12/2023	10/17/2023	12/26/2023
	% LEL	% LEL	% LEL	% LEL
Old office/shop	0	0	0	0
Leachate pump control building	0	0	0	0
Office	0	0	0	0
New Shop	0	0	0	0
Leachate treatment building	0	0	0	0
GP-1	0	0	0	0
GP-2	0	0	0	0
GP-3	18	12	18	**
GP-3R	0	0	0	0
GP-4	0	0	0	0
GP-4R	0	0	0	0
GP-5	0	0	0	0
GP-6	0	0	0	0
GP-6R	0	0	0	0
GP-7	0	0	0	0
GV-1	0	0	0	0
GV-2	0	0	0	3
GV-4	0	0	0	0
GV-5	20	0	8	28
MW-4	*	*	*	*
MW-5	*	*	*	*
MW-16	*	*	*	*
MW-22	*	*	*	*
MW-25	*	*	*	*
MW-26	*	*	*	*

* Measurement at these points inadvertently omitted during 2023.

** Could not be located/monitored. Staff will locate/repair prior to first quarter 2024 measurement event.

Appendix A

Field Sampling Forms

**SOUTH DALLAS COUNTY SANITARY LANDFILL
PERMIT # 25-SDP-01-75P**

3/7/2023

Sampled by: Glenn Hunter

Weather Conditions: Partly clear, breezy, 36-43 degrees

IDNR Form 542-1322

Monitoring Well: MW-2 (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	937.53
Well Depth	19.75
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	937.53
Well Depth	19.75
Top Screen	927.78
Bottom Screen	917.78
Bottom Well	917.78
Sampler Length (ft)	
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	937.53
Bottom sample	937.53
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	Notes
3/7/2023		DRY	#VALUE!	Dry - No Sample

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	0.00
Appendix I	Metals	150	0	0.00
Appendix I	VOC	240	0	0.00
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			0	0

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

TOC	937.53	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.75	Before purging	3/7/2023	0:00	DRY	#VALUE!		#VALUE!	
		After purging				937.53			
		Top of Screen January 1990				927.78			
						#VALUE!	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				917.78			
		Bottom of Well	3/7/2023		19.75	917.78			
						0.00	feet sedimentation		
		Before Sampling				937.53			
		Recovery				937.53			
		Recovery				937.53			
		Recovery				937.53			
		Recovery				937.53			

Monitoring Well: MW-4 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	924.35
Well Depth	37.20
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	924.35
Well Depth	37.20
Top Screen	897.15
Bottom Screen	887.15
Bottom Well	887.15
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	32.00
Top sample	892.35
Bottom sample	888.35
Turbidity(NTU)	2.35

Date	Time	Water Level	Water Elevation	Notes
3/7/2023	11:13	32.80	891.55	

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	2.35
Appendix I	Metals	150	150	2.35
Appendix I	VOC	240	240	2.35
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	924.35	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	37.20	Before purging	3/7/2023	11:13	32.80	891.55		0.0	Yes
		After purging				924.35			
		Top of Screen January 1990				897.15			
						-5.60	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				887.15			
		Bottom of Well	3/7/2023		37.20	887.15			
						0.00	feet sedimentation		
		Before Sampling				924.35			
		Recovery				924.35			
		Recovery				924.35			
		Recovery				924.35			
		Recovery				924.35			

Monitoring Well: MW-5 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	923.97
Well Depth	36.55
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	923.97
Well Depth	36.55
Top Screen	897.42
Bottom Screen	887.42
Bottom Well	887.42
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	30.00
Top sample	893.97
Bottom sample	889.97
Turbidity(NTU)	305.00

Orange

Date	Time	Water Level	Water Elevation	Notes
3/7/2023	11:53	29.65	894.32	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte	Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10	305.00
Appendix I	Metals	150	150	305.00
Appendix I	VOC	240	240	305.00
Full Appendix II	10 more containers	5620		
Supplemental	bis (2)	945		
Supplemental	Minerals	750		
Total			400	0

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

TOC	923.97	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	36.55	Before purging	3/7/2023	11:53	29.65	894.32		0.0	Yes
		After purging				923.97			
		Top of Screen January 1990				897.42			
						-3.10			feet above (+) or below (-) top screen
		Bottom of Well January 1990				887.42			
		Bottom of Well	3/7/2023		36.55	887.42			
						0.00			feet sedimentation
		Before Sampling				923.97			
		Recovery				923.97			
		Recovery				923.97			
		Recovery				923.97			
		Recovery				923.97			

Monitoring Well: MW-9 (ug)
Background Well

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	934.91
Well Depth	42.33
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	934.91
Well Depth	42.33
Top Screen	902.58
Bottom Screen	892.58
Bottom Well	892.58
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	36.00
Top sample	898.91
Bottom sample	894.91
Turbidity(NTU)	3.86

Date	Time	Water Level	Water Elevation	Notes
3/7/2023	9:05	31.95	902.96	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte	Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10	3.86
Appendix I	Metals	150	150	3.86
Appendix I	VOC	240	240	3.86
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	934.91	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	42.33	Before purging	3/7/2023	9:05	31.95	902.96		0.0	No
		After purging				934.91			
		Top of Screen January 1990				902.58			
						0.38			feet above (+) or below (-) top screen
		Bottom of Well January 1990				892.58			
		Bottom of Well	3/7/2023		42.33	892.58			
						0.00			feet sedimentation
		Before Sampling				934.91			
		Recovery				934.91			
		Recovery				934.91			
		Recovery				934.91			
		Recovery				934.91			

Monitoring Well: MW-12 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	908.7
Well Depth	23.10
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	908.7
Well Depth	23.10
Top Screen	895.60
Bottom Screen	885.60
Bottom Well	885.60
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	17.00
Top sample	891.70
Bottom sample	887.70
Turbidity(NTU)	346.00

Date	Time	Water Level	Water Elevation	Notes
3/7/2023	12:36	10.12	898.58	

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	346.00
Appendix I	Metals	150	150	346.00
Appendix I	VOC	240	240	346.00
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	908.7	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	23.10	Before purging	3/7/2023	12:36	10.12	898.58	0	0.0	
		After purging				908.70			
		Top of Screen January 1990				895.60			
		Bottom of Well January 1990				885.60			
		Bottom of Well	3/7/2023		23.10	885.60			
						0.00			feet sedimentation
		Before Sampling				908.70			
		Recovery				908.70			
		Recovery				908.70			
		Recovery				908.70			
		Recovery				908.70			

Monitoring Well: MW-15R (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	919.38
Well Depth	30.35
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	919.38
Well Depth	30.35
Top Screen	899.03
Bottom Screen	889.03
Bottom Well	889.03
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	24.00
Top sample	895.38
Bottom sample	891.38
Turbidity(NTU)	94.70

Date	Time	Water Level	Water Elevation	Notes
3/7/2023	13:00	17.16	902.22	

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	94.70
Appendix I	Metals	150	150	94.70
Appendix I	VOC	240	240	94.70
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	919.38	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	30.35	Before purging	3/7/2023	13:00	17.16	902.22		0.0	No
		After purging				919.38			
		Top of Screen January 1990				899.03			
						3.19			feet above (+) or below (-) top screen
		Bottom of Well January 1990				889.03			
		Bottom of Well	3/7/2023		30.75	888.63			
						-0.40			feet sedimentation
		Before Sampling				919.38			
		Recovery				919.38			
		Recovery				919.38			
		Recovery				919.38			
		Recovery				919.38			

Monitoring Well: MW-17 (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	916.22
Well Depth	23.05
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	916.22
Well Depth	23.05
Top Screen	903.17
Bottom Screen	893.17
Bottom Well	893.17
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	18.00
Top sample	898.22
Bottom sample	894.22
Turbidity(NTU)	6.41

Date	Time	Water Level	Water Elevation	Notes
3/7/2023	10:30	18.52	897.70	

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	6.41
Appendix I	Metals	150	150	6.41
Appendix I	VOC	240	240	6.41
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	916.22	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	23.05	Before purging	3/7/2023	10:30	18.52	897.70		0.0	No
		After purging				916.22			
		Top of Screen January 1990				903.17			
						-5.47			feet above (+) or below (-) top screen
		Bottom of Well January 1990				893.17			
		Bottom of Well	3/7/2023		23.05	893.17			
						0.00			feet sedimentation
		Before Sampling				916.22			
		Recovery				916.22			
		Recovery				916.22			
		Recovery				916.22			
		Recovery				916.22			

Monitoring Well: MW-18 (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	940.87
Well Depth	39.70
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	940.87
Well Depth	39.70
Top Screen	911.17
Bottom Screen	901.17
Bottom Well	901.17
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	34.00
Top sample	906.87
Bottom sample	902.87
Turbidity(NTU)	11.70

Date	Time	Water Level	Water Elevation	Notes
3/7/2023	9:42	34.85	906.02	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte	Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10	11.70
Appendix I	Metals	150	150	11.70
Appendix I	VOC	240	240	11.70
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	940.87	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	39.70	Before purging	3/7/2023	9:42	34.85	906.02		0.0	Yes
		After purging				940.87			
		Top of Screen January 1990				911.17			
						-5.15	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				901.17			
		Bottom of Well	3/7/2023		39.70	901.17			
						0.00	feet sedimentation		
		Before Sampling				940.87			
		Recovery				940.87			
		Recovery				940.87			
		Recovery				940.87			
		Recovery				940.87			

Monitoring Well: MW-19A (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	943.16
Well Depth	57.30
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	943.16
Well Depth	57.30
Top Screen	895.86
Bottom Screen	885.86
Bottom Well	885.86
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	51.00
Top sample	892.16
Bottom sample	888.16
Turbidity(NTU)	1.98

Date	Time	Water Level	Water Elevation	Notes
3/7/2023	10:03	36.06	907.10	

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	1.98
Appendix I	Metals	150	150	1.98
Appendix I	VOC	240	240	1.98
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	943.16	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	57.30	Before purging	3/7/2023	10:03	36.06	907.10		0.0	No
		After purging				943.16			
		Top of Screen January 1990				895.86			
						11.24	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				885.86			
		Bottom of Well	3/7/2023		57.30	885.86			
						0.00	feet sedimentation		
		Before Sampling				943.16			
		Recovery				943.16			
		Recovery				943.16			
		Recovery				943.16			
		Recovery				943.16			

Monitoring Well: MW-20R (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	913.4
Well Depth	21.65
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	913.4
Well Depth	21.65
Top Screen	901.75
Bottom Screen	891.75
Bottom Well	891.75
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	15.00
Top sample	898.40
Bottom sample	894.40
Turbidity(NTU)	5.58

Date	Time	Water Level	Water Elevation	Notes
3/7/2023	12:47	13.10	900.30	

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	5.58
Appendix I	Metals	150	150	5.58
Appendix I	VOC	240	240	5.58
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	913.4	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	21.65	Before purging	3/7/2023	12:47	13.10	900.30		0.0	No
		After purging				913.40			
		Top of Screen January 1990				901.75			
						-1.45	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				891.75			
		Bottom of Well	3/7/2023		21.65	891.75			
						0.00	feet sedimentation		
		Before Sampling				913.40			
		Recovery				913.40			
		Recovery				913.40			
		Recovery				913.40			
		Recovery				913.40			

Monitoring Well: MW-21 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	896.50
Well Depth	21.50
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	896.5
Well Depth	21.50
Top Screen	885.00
Bottom Screen	875.00
Bottom Well	875.00
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	15.00
Top sample	881.50
Bottom sample	877.50
Turbidity(NTU)	1000.00

orange

Date	Time	Water Level	Water Elevation	Notes
3/7/2023	12:18	2.97	893.53	

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	1000.00
Appendix I	Metals	150	150	1000.00
Appendix I	VOC	240	240	1000.00
Full Appendix II	10 more containers	5620		
Supplemental	bis (2)	945		
Supplemental	Minerals	750		
Total			400	0

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

TOC	896.5	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	21.50	Before purging	3/7/2023	12:18	2.97	893.53		0.0	No
		After purging				896.50			
		Top of Screen January 1990				885.00			
						8.53			feet above (+) or below (-) top screen
		Bottom of Well January 1990				875.00			
		Bottom of Well	3/7/2023		21.50	875.00			
						0.00			feet sedimentation
		Before Sampling				896.50			
		Recovery				896.50			
		Recovery				896.50			
		Recovery				896.50			
		Recovery				896.50			

Monitoring Well: MW-22 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	925.68
Well Depth	35.45
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	925.68
Well Depth	35.45
Top Screen	900.23
Bottom Screen	890.23
Bottom Well	890.23
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	31.00
Top sample	894.68
Bottom sample	890.68
Turbidity(NTU)	5.88

Date	Time	Water Level	Water Elevation	Notes
3/7/2023	10:59	32.29	893.39	

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	5.88
Appendix I	Metals	150	150	5.88
Appendix I	VOC	240	240	5.88
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	925.68	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	35.45	Before purging	3/7/2023	10:59	32.29	893.39		0.0	Yes
		After purging				925.68			
		Top of Screen January 1990				900.23			
						-6.84			feet above (+) or below (-) top screen
		Bottom of Well January 1990				890.23			
		Bottom of Well	3/7/2023		35.45	890.23			
						0.00			feet sedimentation
		Before Sampling				925.68			
		Recovery				925.68			
		Recovery				925.68			
		Recovery				925.68			
		Recovery				925.68			

Monitoring Well: MW-24 (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	923.34
Well Depth	26.75
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	923.34
Well Depth	26.75
Top Screen	906.59
Bottom Screen	896.59
Bottom Well	896.59
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	20.00
Top sample	903.34
Bottom sample	899.34
Turbidity(NTU)	2.59

Date	Time	Water Level	Water Elevation	Notes
3/7/2023	9:20	14.22	909.12	

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	2.59
Appendix I	Metals	150	150	2.59
Appendix I	VOC	240	240	2.59
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	923.34	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	26.75	Before purging	3/7/2023	9:20	14.22	909.12		0.0	No
		After purging				923.34			
		Top of Screen January 1990				906.59			
						2.53	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				896.59			
		Bottom of Well	3/7/2023		26.75	896.59			
						0.00	feet sedimentation		
		Before Sampling				923.34			
		Recovery				923.34			
		Recovery				923.34			
		Recovery				923.34			
		Recovery				923.34			

Monitoring Well: MW-25 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	902.9
Well Depth	21.42
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	902.9
Well Depth	21.42
Top Screen	891.48
Bottom Screen	881.48
Bottom Well	881.48
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	15.00
Top sample	887.90
Bottom sample	883.90
Turbidity(NTU)	7.90

Date	Time	Water Level	Water Elevation	Notes
3/7/2023	11:38	10.81	892.09	

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	7.90
Appendix I	Metals	150	150	7.90
Appendix I	VOC	240	240	7.90
Full Appendix II	10 more containers	5620		
Supplemental	bis 2	946		
Supplemental	Minerals	750	0	
Total			400	0

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

TOC	902.9	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	21.42	Before purging	3/7/2023	11:38	10.81	892.09		0.0	No
		After purging				902.90			
		Top of Screen January 1990				891.48			
						0.61			feet above (+) or below (-) top screen
		Bottom of Well January 1990				881.48			
		Bottom of Well	3/7/2023		21.42	881.48			
						0.00			feet sedimentation
		Before Sampling				902.90			
		Recovery				902.90			
		Recovery				902.90			
		Recovery				902.90			
		Recovery				902.90			

Monitoring Well: MW-26 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	908.83
Well Depth	25.20
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	908.83
Well Depth	25.20
Top Screen	893.63
Bottom Screen	883.63
Bottom Well	883.63
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	19.00
Top sample	889.83
Bottom sample	885.83
Turbidity(NTU)	350.00

orange

Date	Time	Water Level	Water Elevation	Notes
3/7/2023	11:26	17.73	891.10	

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	350.00
Appendix I	Metals	150	150	350.00
Appendix I	VOC	240	240	350.00
Full Appendix II	10 more containers	5620		
Supplemental	bis 2	946		
Supplemental	Minerals	750	0	
Total			400	0

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

TOC	908.83	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	25.20	Before purging	3/7/2023	11:26	17.73	891.10		0.0	No
		After purging				908.83			
		Top of Screen January 1990				893.63			
						-2.53			feet above (+) or below (-) top screen
		Bottom of Well January 1990				883.63			
		Bottom of Well	3/7/2023		25.20	883.63			
						0.00			feet sedimentation
		Before Sampling				908.83			
		Recovery				908.83			
		Recovery				908.83			
		Recovery				908.83			
		Recovery				908.83			

**SOUTH DALLAS COUNTY SANITARY LANDFILL
PERMIT # 25-SDP-01-75P**

9/11/2023

Sampled by: Glenn Hunter

Weather Conditions: Partly clear, breezy, 36-43 degrees

IDNR Form 542-1322

Monitoring Well: MW-2 (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	937.53
Well Depth	19.75
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	937.53
Well Depth	19.75
Top Screen	927.78
Bottom Screen	917.78
Bottom Well	917.78
Sampler Length (ft)	
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	937.53
Bottom sample	937.53
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	Notes
9/11/2023		19.75	917.78	Dry - No Sample

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	0.00
Appendix I	Metals	150	0	0.00
Appendix I	VOC	240	0	0.00
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			0	0

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

TOC	937.53	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol. #DIV/0!	Purged Dry?
Well Depth	19.75	Before purging	9/11/2023	0:00	19.75	917.78			
		After purging				937.53			
		Top of Screen January 1990				927.78			
						-10.00			feet above (+) or below (-) top screen
		Bottom of Well January 1990				917.78			
		Bottom of Well	9/11/2023		19.75	917.78			
						0.00			feet sedimentation
		Before Sampling				937.53			
		Recovery				937.53			
		Recovery				937.53			
		Recovery				937.53			
		Recovery				937.53			

Monitoring Well: MW-4 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	924.35
Well Depth	37.20
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	924.35
Well Depth	37.20
Top Screen	897.15
Bottom Screen	887.15
Bottom Well	887.15
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	33.50
Top sample	890.85
Bottom sample	886.85
Turbidity(NTU)	5.31

Date	Time	Water Level	Water Elevation	Notes
9/11/2023	10:15	34.65	889.7	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte	Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10	5.31
Appendix I	Metals	150	150	5.31
Appendix I	VOC	240	240	5.31
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	924.35	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	37.20	Before purging	9/11/2023	10:15	34.65	889.70		0.0	Yes
		After purging				924.35			
		Top of Screen January 1990				897.15			
						-7.45	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				887.15			
		Bottom of Well	9/11/2023		37.20	887.15			
						0.00	feet sedimentation		
		Before Sampling				924.35			
		Recovery				924.35			
		Recovery				924.35			
		Recovery				924.35			
		Recovery				924.35			

Monitoring Well: MW-5 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	923.97
Well Depth	36.55
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	923.97
Well Depth	36.55
Top Screen	897.42
Bottom Screen	887.42
Bottom Well	887.42
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	32.00
Top sample	891.97
Bottom sample	887.97
Turbidity(NTU)	70.94

Orange

Date	Time	Water Level	Water Elevation	Notes
9/11/2023	9:32	31.25	892.72	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte	Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10	70.94
Appendix I	Metals	150	150	70.94
Appendix I	VOC	240	240	70.94
Full Appendix II	10 more containers	5620		
Supplemental	bis (2)	945		
Supplemental	Minerals	750		
Total			400	0

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

TOC	923.97	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	36.55	Before purging	9/11/2023	9:32	31.25	892.72		0.0	Yes
		After purging				923.97			
		Top of Screen January 1990				897.42			
						-4.70	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				887.42			
		Bottom of Well	9/11/2023		36.55	887.42			
						0.00	feet sedimentation		
		Before Sampling				923.97			
		Recovery				923.97			
		Recovery				923.97			
		Recovery				923.97			
		Recovery				923.97			

Monitoring Well: MW-9 (ug)
Background Well

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	934.91
Well Depth	42.33
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	934.91
Well Depth	42.33
Top Screen	902.58
Bottom Screen	892.58
Bottom Well	892.58
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	36.00
Top sample	898.91
Bottom sample	894.91
Turbidity(NTU)	14.42

Date	Time	Water Level	Water Elevation	Notes
9/11/2023	12:31	32.65	902.26	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte	Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10	14.42
Appendix I	Metals	150	150	14.42
Appendix I	VOC	240	240	14.42
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	934.91	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	42.33	Before purging	9/11/2023	12:31	32.65	902.26		0.0	No
		After purging				934.91			
		Top of Screen January 1990				902.58			
						-0.32	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				892.58			
		Bottom of Well	9/11/2023		42.33	892.58			
						0.00	feet sedimentation		
		Before Sampling				934.91			
		Recovery				934.91			
		Recovery				934.91			
		Recovery				934.91			
		Recovery				934.91			

Monitoring Well: MW-12 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	908.7
Well Depth	23.10
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	908.7
Well Depth	23.10
Top Screen	895.60
Bottom Screen	885.60
Bottom Well	885.60
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	17.50
Top sample	891.20
Bottom sample	887.20
Turbidity(NTU)	41.43

Date	Time	Water Level	Water Elevation	Notes
9/11/2023	8:58	12.68	896.02	

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	41.43
Appendix I	Metals	150	150	41.43
Appendix I	VOC	240	240	41.43
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	908.7	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	23.10	Before purging	9/11/2023	8:58	12.68	896.02	0	0.0	
		After purging				908.70			
		Top of Screen January 1990				895.60			
						0.42			feet above (+) or below (-) top screen
		Bottom of Well January 1990				885.60			
		Bottom of Well	9/11/2023		23.10	885.60			
						0.00			feet sedimentation
		Before Sampling				908.70			
		Recovery				908.70			
		Recovery				908.70			
		Recovery				908.70			
		Recovery				908.70			

Monitoring Well: MW-15R (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	919.38
Well Depth	30.35
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	919.38
Well Depth	30.35
Top Screen	899.03
Bottom Screen	889.03
Bottom Well	889.03
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	25.00
Top sample	894.38
Bottom sample	890.38
Turbidity(NTU)	4.30

Date	Time	Water Level	Water Elevation	Notes
9/11/2023	8:15	19.44	899.94	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte	Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10	4.30
Appendix I	Metals	150	150	4.30
Appendix I	VOC	240	240	4.30
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	919.38	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	30.35	Before purging	9/11/2023	8:15	19.44	899.94		0.0	No
		After purging				919.38			
		Top of Screen January 1990				899.03			
						0.91			feet above (+) or below (-) top screen
		Bottom of Well January 1990				889.03			
		Bottom of Well	9/11/2023		30.75	888.63			
						-0.40			feet sedimentation
		Before Sampling				919.38			
		Recovery				919.38			
		Recovery				919.38			
		Recovery				919.38			
		Recovery				919.38			

Monitoring Well: MW-17 (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	916.22
Well Depth	23.05
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	916.22
Well Depth	23.05
Top Screen	903.17
Bottom Screen	893.17
Bottom Well	893.17
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	19.00
Top sample	897.22
Bottom sample	893.22
Turbidity(NTU)	4.58

Date	Time	Water Level	Water Elevation	Notes
9/11/2023	10:49	20.48	895.74	

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	4.58
Appendix I	Metals	150	150	4.58
Appendix I	VOC	240	240	4.58
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	916.22	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	23.05	Before purging	9/11/2023	10:49	20.48	895.74		0.0	No
		After purging				916.22			
		Top of Screen January 1990				903.17			
						-7.43	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				893.17			
		Bottom of Well	9/11/2023		23.05	893.17			
						0.00	feet sedimentation		
		Before Sampling				916.22			
		Recovery				916.22			
		Recovery				916.22			
		Recovery				916.22			
		Recovery				916.22			

Monitoring Well: MW-18 (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	940.87
Well Depth	39.70
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	940.87
Well Depth	39.70
Top Screen	911.17
Bottom Screen	901.17
Bottom Well	901.17
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	35.50
Top sample	905.37
Bottom sample	901.37
Turbidity(NTU)	89.88

Date	Time	Water Level	Water Elevation	Notes
9/11/2023	12:15	35.72	905.15	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte	Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10	89.88
Appendix I	Metals	150	150	89.88
Appendix I	VOC	240	240	89.88
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	940.87	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	39.70	Before purging	9/11/2023	12:15	35.72	905.15		0.0	Yes
		After purging				940.87			
		Top of Screen January 1990				911.17			
						-6.02	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				901.17			
		Bottom of Well	9/11/2023		39.70	901.17			
						0.00	feet sedimentation		
		Before Sampling				940.87			
		Recovery				940.87			
		Recovery				940.87			
		Recovery				940.87			
		Recovery				940.87			

Monitoring Well: MW-19A (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	943.16
Well Depth	57.30
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	943.16
Well Depth	57.30
Top Screen	895.86
Bottom Screen	885.86
Bottom Well	885.86
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	50.00
Top sample	893.16
Bottom sample	889.16
Turbidity(NTU)	2.50

Date	Time	Water Level	Water Elevation	Notes
9/11/2023	11:21	35.21	907.95	

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	2.50
Appendix I	Metals	150	150	2.50
Appendix I	VOC	240	240	2.50
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	943.16	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	57.30	Before purging	9/11/2023	11:21	35.21	907.95		0.0	No
		After purging				943.16			
		Top of Screen January 1990				895.86			
						12.09	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				885.86			
		Bottom of Well	9/11/2023		57.30	885.86			
						0.00	feet sedimentation		
		Before Sampling				943.16			
		Recovery				943.16			
		Recovery				943.16			
		Recovery				943.16			
		Recovery				943.16			

Monitoring Well: MW-20R (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	913.4
Well Depth	21.65
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	913.4
Well Depth	21.65
Top Screen	901.75
Bottom Screen	891.75
Bottom Well	891.75
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	15.50
Top sample	897.90
Bottom sample	893.90
Turbidity(NTU)	3.89

Date	Time	Water Level	Water Elevation	Notes
9/11/2023	8:35	15.01	898.39	

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	3.89
Appendix I	Metals	150	150	3.89
Appendix I	VOC	240	240	3.89
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	913.4	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	21.65	Before purging	9/11/2023	8:35	15.01	898.39		0.0	No
		After purging				913.40			
		Top of Screen January 1990				901.75			
						-3.36	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				891.75			
		Bottom of Well	9/11/2023		21.65	891.75			
						0.00	feet sedimentation		
		Before Sampling				913.40			
		Recovery				913.40			
		Recovery				913.40			
		Recovery				913.40			
		Recovery				913.40			

Monitoring Well: MW-21 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	896.50
Well Depth	21.50
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	896.5
Well Depth	21.50
Top Screen	885.00
Bottom Screen	875.00
Bottom Well	875.00
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	15.50
Top sample	881.00
Bottom sample	877.00
Turbidity(NTU)	2.43

orange

Date	Time	Water Level	Water Elevation	Notes
9/11/2023	9:14	7.92	888.58	

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	2.43
Appendix I	Metals	150	150	2.43
Appendix I	VOC	240	240	2.43
Full Appendix II	10 more containers	5620		
Supplemental	bis (2)	945		
Supplemental	Minerals	750		
Total			400	0

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

TOC	896.5	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	21.50	Before purging	9/11/2023	9:14	7.92	888.58		0.0	No
		After purging				896.50			
		Top of Screen January 1990				885.00			
						3.58	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				875.00			
		Bottom of Well	9/11/2023		21.50	875.00			
						0.00	feet sedimentation		
		Before Sampling				896.50			
		Recovery				896.50			
		Recovery				896.50			
		Recovery				896.50			
		Recovery				896.50			

Monitoring Well: MW-22 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	925.68
Well Depth	35.45
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	925.68
Well Depth	35.45
Top Screen	900.23
Bottom Screen	890.23
Bottom Well	890.23
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	too dry to sample
Top sample	925.68
Bottom sample	921.68
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	Notes
9/11/2023		34.42	891.26	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte	Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10		0.00
Appendix I	Metals	150		0.00
Appendix I	VOC	240		0.00
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total		0	0	

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

TOC	925.68	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	35.45	Before purging	9/11/2023	0:00	34.42	891.26		0.0	Yes
		After purging				925.68			
		Top of Screen January 1990				900.23			
						-8.97			feet above (+) or below (-) top screen
		Bottom of Well January 1990				890.23			
		Bottom of Well	9/11/2023		35.45	890.23			
						0.00			feet sedimentation
		Before Sampling				925.68			
		Recovery				925.68			
		Recovery				925.68			
		Recovery				925.68			
		Recovery				925.68			

Monitoring Well: MW-24 (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	923.34
Well Depth	26.75
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	923.34
Well Depth	26.75
Top Screen	906.59
Bottom Screen	896.59
Bottom Well	896.59
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	21.00
Top sample	902.34
Bottom sample	898.34
Turbidity(NTU)	8.34

Date	Time	Water Level	Water Elevation	Notes
9/11/2023	11:48	16.01	907.33	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte	Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10	8.34
Appendix I	Metals	150	150	8.34
Appendix I	VOC	240	240	8.34
Full Appendix II	10 more containers	5620		
Sulfide	Sulfide	250		
Supplemental	Minerals	750		
Total			400	0

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

TOC	923.34	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	26.75	Before purging	9/11/2023	11:48	16.01	907.33		0.0	No
		After purging				923.34			
		Top of Screen January 1990				906.59			
						0.74			feet above (+) or below (-) top screen
		Bottom of Well January 1990				896.59			
		Bottom of Well	9/11/2023		26.75	896.59			
						0.00			feet sedimentation
		Before Sampling				923.34			
		Recovery				923.34			
		Recovery				923.34			
		Recovery				923.34			
		Recovery				923.34			

Monitoring Well: MW-25 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	902.9
Well Depth	21.42
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	902.9
Well Depth	21.42
Top Screen	891.48
Bottom Screen	881.48
Bottom Well	881.48
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	16.00
Top sample	886.90
Bottom sample	882.90
Turbidity(NTU)	4.46

Date	Time	Water Level	Water Elevation	Notes
9/11/2023	9:45	11.11	891.79	

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	4.46
Appendix I	Metals	150	150	4.46
Appendix I	VOC	240	240	4.46
Full Appendix II	10 more containers	5620		
Supplemental	bis 2	946		
Supplemental	Minerals	750	0	
Total			400	0

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

TOC	902.9	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	21.42	Before purging	9/11/2023	9:45	11.11	891.79		0.0	No
		After purging				902.90			
		Top of Screen January 1990				891.48			
						0.31	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				881.48			
		Bottom of Well	9/11/2023		21.42	881.48			
						0.00	feet sedimentation		
		Before Sampling				902.90			
		Recovery				902.90			
		Recovery				902.90			
		Recovery				902.90			
		Recovery				902.90			

Monitoring Well: MW-26 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	908.83
Well Depth	25.20
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	908.83
Well Depth	25.20
Top Screen	893.63
Bottom Screen	883.63
Bottom Well	883.63
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	20.00
Top sample	888.83
Bottom sample	884.83
Turbidity(NTU)	67.51

orange

Date	Time	Water Level	Water Elevation	Notes
9/11/2023	9:59	19.67	889.16	

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	67.51
Appendix I	Metals	150	150	67.51
Appendix I	VOC	240	240	67.51
Full Appendix II	10 more containers	5620		
Supplemental	bis 2	946		
Supplemental	Minerals	750	0	
Total			400	0

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

TOC	908.83	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	25.20	Before purging	9/11/2023	9:59	19.67	889.16		0.0	No
		After purging				908.83			
		Top of Screen January 1990				893.63			
						-4.47	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				883.63			
		Bottom of Well	9/11/2023		25.20	883.63			
						0.00	feet sedimentation		
		Before Sampling				908.83			
		Recovery				908.83			
		Recovery				908.83			
		Recovery				908.83			
		Recovery				908.83			

Appendix B

Statistical Report

Appendix B.1 –1st Statistical Evaluation

GROUND WATER STATISTICS

FOR THE

SOUTH DALLAS COUNTY SANITARY LANDFILL

First Semi-Annual Monitoring Event in 2023

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April 2023

INTRODUCTION

This report summarizes the results of the statistical analysis used to evaluate the ground water quality data obtained during the first semi-annual monitoring event in 2023 at the South Dallas County Sanitary Landfill in Adel, Dallas County, Iowa. The statistical plan was designed to detect a release from the facility at the earliest indication so that it is protective of human health and the environment. The interwell methodology is described and then applied to the South Dallas County Landfill data. The statistical plan conforms with IAC 567, Chapter 113.10 and the USEPA Unified Guidance document (“*Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities*”, March 2009).

Ground Water Monitoring Program

The groundwater monitoring network for South Dallas County Sanitary Landfill includes upgradient wells MW-2, MW-17, and MW-19A and downgradient detection sample points GWD-1, MW-10, MW-12, MW-15R, MW-18, MW-20R, MW-21, MW-22, MW-24, MW-4, MW-5, and MW-9. Each of the groundwater monitoring wells is to be sampled at least semiannually and analyzed for the detection monitoring parameters listed in 113.10(5), which includes 15 inorganic constituents and 47 organic compounds, summarized in Table 1 below.

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

Organic Compounds:

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

Inorganic constituents:

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

The ground water data obtained during the first semi-annual monitoring event in 2023 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 the interwell and intrawell methods were applied to the South Dallas Landfill data using the DUMPStat[®] statistical program. Ground water statistics are to be done on the inorganic constituents listed. The organic constituents are compared to maximum contaminant levels (MCLs) or practical quantitation limits (PQLs), in lieu of statistical comparisons to historical concentrations.

Interwell Statistics: Upgradient versus Downgradient Comparisons

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

The previous background data used in this statistical analysis included the ground water data collected from ground water wells MW-2, MW-17, and MW-19A during the period from October 2014 through April 2018. Since then, wells MW-18, MW-24, and MW-9 have been approved as background wells. The background data used in this statistical analysis includes the ground water data collected from ground water wells MW-2, MW-17, MW-18, MW-19A, MW-24, and MW-9 during the period from October 2014 through the current data. A summary of the background data from monitoring wells MW-2, MW-17, MW-18, MW-19A, MW-24, and MW-9, used to determine the site prediction limits, is listed in Attachment B, Table 1 “Upgradient Data”. This statistical method compares the current downgradient determinations to site prediction limits and checks for exceedances.

Table 2 “Most Current Downgradient Monitoring Data”, summarizes the current data from downgradient wells GWD-1, MW-12, MW-15R, MW-20R, MW-21, MW-22, MW-4, and MW-5 compared to the site prediction limits. Prediction limit exceedances are flagged with asterisks. For the data obtained during the first semi-annual monitoring event in 2023, the site prediction limit exceedances detected are summarized in the table below.

Summary of Prediction Limit Exceedances for the First Semi-Annual Monitoring Event in 2023

Well	Trace Metal	Result, µg/L	Prediction Limit	Prediction Limit Type	Verified or Awaiting Verification
MW-21	Barium	1420	1322.7166	Normal	Awaiting Verification

The detection frequencies of the parameters in the up and down gradient monitoring wells are summarized in Table 3. Barium, cobalt, and nickel are detected at a frequency greater than 50% in the upgradient wells so those metals were tested for normality. The remainder of the metals are rarely detected (less than 50%) in the upgradient wells so nonparametric limits were used in those cases. Table 4 summarizes the results of the Shapiro-Wilk test. Table 5 is a summary of the statistics and prediction limits determined for the metals. Time series graphs of each of the parameters at each well with the corresponding prediction limits are attached.

A statistical power curve indicates the expected false assessments for the site as a whole. The false positive rate for interwell analyses is the percentage of failures when the upgradient versus downgradient true mean difference equals zero. False negative rate indicates the chance of missing contamination at a single well for a single constituent. The statistical power is a function of the number of wells included, the number of constituents compared, the detection frequencies, and the data distributions involved. For interwell analysis, the site-wide false positive rate is 1% and the test becomes sensitive to 3 standard deviation unit increases over background.

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

Compliance wells

- The 95% LCL for arsenic at MW-15R (17.725 µg/L) exceeds the USEPA MCL of 10 µg/L.
- The 95% LCL for arsenic at MW-20R (43.826 µg/L) exceeds the USEPA MCL of 10 µg/L.
- The 95% LCL for arsenic at MW-22 (39.551 µg/L) exceeds the USEPA MCL of 10 µg/L.
- The 95% LCL for cobalt at MW-22 (2.761 µg/L) exceeds the Iowa Statewide Standard of 2.1 µg/L.
- The 95% LCL for arsenic at MW-4 (46.694 µg/L) exceeds the USEPA MCL of 10 µg/L.

Background wells

- The 95% LCL for arsenic at MW-18 (17.078 µg/L) exceeds the USEPA MCL of 10 µg/L.
- The 95% LCL for cobalt at MW-18 (3.579 µg/L) exceeds the Iowa Statewide Standard of 2.1 µg/L.
- The 95% LCL for arsenic at MW-24 (27.005 µg/L) exceeds the USEPA MCL of 10 µg/L.
- The 95% LCL for cobalt at MW-9 (4.749 µg/L) exceeds the Iowa Statewide Standard of 2.1 µg/L.

The remainder of the calculated LCLs are below ground water quality standards.

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. As an alternative to nonparametric prediction limits, Poisson prediction limits can be used for small data sets where the detection frequency is less than 25%.

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. If the Dixon test indicates an outlier, the value is compared to three times the median value for intrawell analyses. If the value fails both criteria of the two-stage screening, the value is considered a statistical outlier and will not

be used in the mean and variance determinations. 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 landfill 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 Appendix I trace metals data from compliance wells GWD-1, MW-12, MW-15R, MW-20R, MW-21, MW-22, MW-4, and MW-5 were evaluated using the combined Shewhart-CUSUM control chart method. The previous background included the data obtained from October 2014 through June 2018. Because there were eight rounds or fewer of background, there was insufficient data to determine nonparametric limits for those rarely detected parameters. Nonparametric prediction limits are the largest value detected during background at that well for that parameter. Since thirteen independent measurements (with 1 resample) are necessary to achieve a 99% confidence (1% false positive rate) nonparametric prediction limit, the background was updated to include data obtained from October 2014 through 2020.

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 parameters evaluated, the control limit exceedances detected are summarized in the table below.

Summary of statistical limit exceedances during the first semi-annual monitoring period in 2023

Well	Parameter	Result	CUSUM Value	Control limit	Control Limit Type	Verified/Awaiting Verification
MW-21	Arsenic	30.5	28.8372	20.3877	Normal	Awaiting Verification
MW-5	Barium	460	484.9237	400.5499	Normal	Verified

An increasing trend was detected in the background data for barium at MW-5.

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. Given an accepted resample verification plan of “pass one of one” resamples, the number of statistical comparisons, and the number of background data points, the optimal factor $h = SCL = 6.5$ for $N < 12$. Using this factor for intrawell analysis, the site-wide false positive rate is 20% and the test becomes sensitive to 4 standard deviation units over background.

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 South Dallas County Landfill during the first semi-annual monitoring event in 2023 are summarized below.

VOCs detected at South Dallas County Landfill during the first semi-annual monitoring event in 2023

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting Verification	Groundwater Standard, µg/L
GWD-1	Vinyl chloride	1.3	1	Awaiting Verification	2 ^a
MW-21	Chloroethane	1.4	1	Verified	2800 ^b
MW-22	Benzene	2.0	1	Verified	5 ^a
	Vinyl chloride	1.3	1	Verified	2 ^a
MW-4	1,2-Dichloropropane	1.1		Verified	5 ^a
	1,4-Dichlorobenzene	5.7	1	Verified	75 ^a
	Benzene	1.5	1	Verified	5 ^a
	Chloroethane	1.4	1	Verified	2800 ^b
MW-5	Chloroethane	3.1	1	Verified	2800 ^b

a - USEPA MCL

b - Iowa Statewide Standard

Chloroethane has been detected multiple times at MW-21 but was last detected at MW-21 in March 2022. Benzene has been detected multiple times at MW-22 but was last detected at MW-22 in March 2022. Vinyl chloride has been detected multiple times at MW-22 but was last detected at MW-22 in March 2021. 1,2-Dichloropropane was last detected at MW-4 in September 2021.

These VOCs are often associated with landfill gas migration. Historical VOC detections are summarized in Attachment E. The verified VOC detections were evaluated against the ground water protection standards (GWPS) using confidence limits calculated in accordance with the Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, USEPA, March 2009 (Attachment F). The calculated LCLs are all below ground water quality standards for each of the verified detections.

CONCLUSIONS

This report summarizes the statistical analyses used to evaluate the ground water data obtained during the first semi-annual monitoring event in 2023 at South Dallas County Sanitary Landfill. Monitoring wells GWD-1, MW-12, MW-15R, MW-17, MW-18, MW-19A, MW-20R, MW-21, MW-22, MW-24, MW-4, MW-5, and MW-9 were sampled on March 7, 2023 and analyzed for the parameters required by permit. The ground water data was compared to background using prediction limits. There is a site prediction limit exceedance detected for barium at MW-21 awaiting verification. Using intrawell comparisons, there is a

verified control limit exceedance for barium at MW-5 and an unconfirmed exceedance for arsenic at MW-21.

The VOCs were compared to MCLs or PQLs, in lieu of statistical comparisons to historical concentrations. There are detections of vinyl chloride at GWD-1; chloroethane at MW-21; benzene and vinyl chloride at MW-22; 1,2-dichloropropane, 1,4-dichlorobenzene, benzene, and chloroethane at MW-4; and chloroethane at MW-5.

Attachment A

Summary of the Data obtained during the First Semi-Annual Monitoring Event in 2023

Table 1

Analytical Data Summary for 3/7/2023

Constituents	Units	GWD-1	MW-12	MW-15R	MW-17	MW-18	MW-19A	MW-20R	MW-21	MW-22	MW-24	MW-26	MW-4	MW-5	MW-9
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0
1,4-dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.7	<1.0	<1.0
2-butanone (mek)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	5.3	10.2	21.5	<4.0	18.3	<4.0	43.0	30.5	95.5	12.9	23.8	50.8	83.0	<4.0
Barium, total	ug/L	199.0	450.0	393.0	162.0	702.0	32.5	599.0	1420.0	367.0	385.0	341.0	890.0	460.0	269.0
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	1.5	<1.0	<1.0
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	1.0	<8	<8	<8	<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	1.4	3.1	<1.0
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<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	<1	<1
Cobalt, total	ug/L	.6	4.4	1.8	13.0	9.2	.4	.5	.9	4.2	<4	<4	1.6	5.2	4.8
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	9.2	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<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	<5	<5
Nickel, total	ug/L	<4.0	8.2	<4.0	9.1	19.8	11.4	<4.0	6.8	7.7	<4.0	<4.0	<4.0	8.7	10.0
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<2.0	<2.0	<2.0	2.3	<2.0	<2.0	<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	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

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

Table 1

Analytical Data Summary for 3/7/2023

Constituents	Units	GWD-1	MW-12	MW-15R	MW-17	MW-18	MW-19A	MW-20R	MW-21	MW-22	MW-24	MW-26	MW-4	MW-5	MW-9
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20		<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5
Vinyl chloride	ug/L	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1.0	<2	<2	<2
Zinc, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20		<20	<20	<20

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

Attachment B

Summary Tables and Graphs for the Interwell Comparisons

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW-17	10/16/2014	ND	2.0000		
Antimony, total	ug/L	MW-17	04/04/2015	ND	2.0000		
Antimony, total	ug/L	MW-17	10/01/2015	ND	2.0000		
Antimony, total	ug/L	MW-17	04/04/2016	ND	2.0000		
Antimony, total	ug/L	MW-17	09/20/2016	ND	2.0000		
Antimony, total	ug/L	MW-17	04/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-17	10/09/2017	ND	2.0000		
Antimony, total	ug/L	MW-17	03/21/2018	ND	2.0000		
Antimony, total	ug/L	MW-17	09/07/2018	ND	2.0000		
Antimony, total	ug/L	MW-17	04/02/2019	ND	2.0000		
Antimony, total	ug/L	MW-17	09/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-17	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-17	09/15/2020	ND	2.0000		
Antimony, total	ug/L	MW-17	03/08/2021	ND	2.0000		
Antimony, total	ug/L	MW-17	09/28/2021	ND	2.0000		
Antimony, total	ug/L	MW-17	03/08/2022	ND	2.0000		
Antimony, total	ug/L	MW-17	08/30/2022	ND	2.0000		
Antimony, total	ug/L	MW-17	03/07/2023	ND	2.0000		
Antimony, total	ug/L	MW-18	10/16/2014	ND	2.0000		
Antimony, total	ug/L	MW-18	04/04/2015	ND	2.0000		
Antimony, total	ug/L	MW-18	10/01/2015	ND	2.0000		
Antimony, total	ug/L	MW-18	04/04/2016	ND	2.0000		
Antimony, total	ug/L	MW-18	09/20/2016	ND	2.0000		
Antimony, total	ug/L	MW-18	04/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-18	10/09/2017	ND	2.0000		
Antimony, total	ug/L	MW-18	03/21/2018	ND	2.0000		
Antimony, total	ug/L	MW-18	09/07/2018	ND	2.0000		
Antimony, total	ug/L	MW-18	04/02/2019	ND	2.0000		
Antimony, total	ug/L	MW-18	09/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-18	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-18	09/15/2020	ND	2.0000		
Antimony, total	ug/L	MW-18	03/08/2021	ND	2.0000		
Antimony, total	ug/L	MW-18	09/28/2021	ND	2.0000		
Antimony, total	ug/L	MW-18	03/08/2022	ND	2.0000		
Antimony, total	ug/L	MW-18	08/30/2022	ND	2.0000		
Antimony, total	ug/L	MW-18	03/07/2023	ND	2.0000		
Antimony, total	ug/L	MW-19A	10/16/2014	ND	2.0000		
Antimony, total	ug/L	MW-19A	04/04/2015	ND	2.0000		
Antimony, total	ug/L	MW-19A	10/01/2015	ND	2.0000		
Antimony, total	ug/L	MW-19A	04/04/2016	ND	2.0000		
Antimony, total	ug/L	MW-19A	09/20/2016	ND	2.0000		
Antimony, total	ug/L	MW-19A	04/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-19A	10/09/2017	ND	2.0000		
Antimony, total	ug/L	MW-19A	03/21/2018	ND	2.0000		
Antimony, total	ug/L	MW-19A	09/07/2018	ND	2.0000		
Antimony, total	ug/L	MW-19A	04/02/2019	ND	2.0000		
Antimony, total	ug/L	MW-19A	09/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-19A	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-19A	09/15/2020	ND	2.0000		
Antimony, total	ug/L	MW-19A	03/08/2021	ND	2.0000		
Antimony, total	ug/L	MW-19A	09/28/2021	ND	2.0000		
Antimony, total	ug/L	MW-19A	03/08/2022	ND	2.0000		
Antimony, total	ug/L	MW-19A	08/30/2022	ND	2.0000		
Antimony, total	ug/L	MW-19A	03/07/2023	ND	2.0000		
Antimony, total	ug/L	MW-2	04/04/2015	ND	2.0000		
Antimony, total	ug/L	MW-2	10/01/2015	ND	2.0000		
Antimony, total	ug/L	MW-2	04/04/2016	ND	2.0000		
Antimony, total	ug/L	MW-2	04/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-2	04/02/2019	ND	2.0000		
Antimony, total	ug/L	MW-2	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-24	10/16/2014	ND	2.0000		
Antimony, total	ug/L	MW-24	04/04/2015	ND	2.0000		
Antimony, total	ug/L	MW-24	10/01/2015	ND	2.0000		
Antimony, total	ug/L	MW-24	04/04/2016	ND	2.0000		
Antimony, total	ug/L	MW-24	09/20/2016	ND	2.0000		
Antimony, total	ug/L	MW-24	04/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-24	10/09/2017	ND	2.0000		
Antimony, total	ug/L	MW-24	03/21/2018	ND	2.0000		
Antimony, total	ug/L	MW-24	09/07/2018	ND	2.0000		
Antimony, total	ug/L	MW-24	04/02/2019	ND	2.0000		
Antimony, total	ug/L	MW-24	09/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-24	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-24	09/15/2020	ND	2.0000		
Antimony, total	ug/L	MW-24	03/08/2021	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	
Antimony, total	ug/L	MW-24	09/28/2021	ND	2.0000		
Antimony, total	ug/L	MW-24	03/08/2022	ND	2.0000		
Antimony, total	ug/L	MW-24	08/30/2022	ND	2.0000		
Antimony, total	ug/L	MW-24	03/07/2023	ND	2.0000		
Antimony, total	ug/L	MW-9	10/16/2014	ND	2.0000		
Antimony, total	ug/L	MW-9	04/04/2015	ND	2.0000		
Antimony, total	ug/L	MW-9	10/01/2015	ND	2.0000		
Antimony, total	ug/L	MW-9	04/04/2016	ND	2.0000		
Antimony, total	ug/L	MW-9	09/20/2016	ND	2.0000		
Antimony, total	ug/L	MW-9	04/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-9	10/09/2017	ND	2.0000		
Antimony, total	ug/L	MW-9	03/21/2018	ND	2.0000		
Antimony, total	ug/L	MW-9	09/07/2018	ND	2.0000		
Antimony, total	ug/L	MW-9	04/02/2019	ND	2.0000		
Antimony, total	ug/L	MW-9	09/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-9	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-9	09/15/2020	ND	2.0000		
Antimony, total	ug/L	MW-9	03/08/2021	ND	2.0000		
Antimony, total	ug/L	MW-9	09/28/2021	ND	2.0000		
Antimony, total	ug/L	MW-9	03/08/2022	ND	2.0000		
Antimony, total	ug/L	MW-9	08/30/2022	ND	2.0000		
Antimony, total	ug/L	MW-9	03/07/2023	ND	2.0000		
Arsenic, total	ug/L	MW-17	10/16/2014	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/04/2015	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/01/2015	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/04/2016	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/20/2016	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/09/2017	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/21/2018		5.0000		
Arsenic, total	ug/L	MW-17	09/07/2018	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/02/2019		4.4000		
Arsenic, total	ug/L	MW-17	09/18/2019	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/25/2020	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/15/2020	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/08/2021	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/28/2021	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/08/2022	ND	4.0000		
Arsenic, total	ug/L	MW-17	08/30/2022	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/07/2023	ND	4.0000		
Arsenic, total	ug/L	MW-18	10/16/2014		25.7000		
Arsenic, total	ug/L	MW-18	04/04/2015		34.2000		
Arsenic, total	ug/L	MW-18	10/01/2015		21.1000		
Arsenic, total	ug/L	MW-18	04/04/2016		26.2000		
Arsenic, total	ug/L	MW-18	09/20/2016		23.4000		
Arsenic, total	ug/L	MW-18	04/24/2017		22.3000		
Arsenic, total	ug/L	MW-18	10/09/2017		23.5000		
Arsenic, total	ug/L	MW-18	03/21/2018		21.1000		
Arsenic, total	ug/L	MW-18	09/07/2018		19.4000		
Arsenic, total	ug/L	MW-18	04/02/2019		21.5000		
Arsenic, total	ug/L	MW-18	09/18/2019		21.7000		
Arsenic, total	ug/L	MW-18	03/25/2020		19.4000		
Arsenic, total	ug/L	MW-18	09/15/2020		23.4000		
Arsenic, total	ug/L	MW-18	03/08/2021		23.3000		
Arsenic, total	ug/L	MW-18	09/28/2021		19.9000		
Arsenic, total	ug/L	MW-18	03/08/2022		21.3000		
Arsenic, total	ug/L	MW-18	08/30/2022		27.3000		
Arsenic, total	ug/L	MW-18	03/07/2023		18.3000		
Arsenic, total	ug/L	MW-19A	10/16/2014	ND	4.0000		
Arsenic, total	ug/L	MW-19A	04/04/2015	ND	4.0000		
Arsenic, total	ug/L	MW-19A	10/01/2015	ND	4.0000		
Arsenic, total	ug/L	MW-19A	04/04/2016	ND	4.0000		
Arsenic, total	ug/L	MW-19A	09/20/2016	ND	4.0000		
Arsenic, total	ug/L	MW-19A	04/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-19A	10/09/2017	ND	4.0000		
Arsenic, total	ug/L	MW-19A	03/21/2018	ND	4.0000		
Arsenic, total	ug/L	MW-19A	09/07/2018	ND	4.0000		
Arsenic, total	ug/L	MW-19A	04/02/2019	ND	4.0000		
Arsenic, total	ug/L	MW-19A	09/18/2019	ND	4.0000		
Arsenic, total	ug/L	MW-19A	03/25/2020	ND	4.0000		
Arsenic, total	ug/L	MW-19A	09/15/2020	ND	4.0000		
Arsenic, total	ug/L	MW-19A	03/08/2021	ND	4.0000		
Arsenic, total	ug/L	MW-19A	09/28/2021	ND	4.0000		
Arsenic, total	ug/L	MW-19A	03/08/2022	ND	4.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Arsenic, total	ug/L	MW-19A	08/30/2022	ND	4.0000		
Arsenic, total	ug/L	MW-19A	03/07/2023	ND	4.0000		
Arsenic, total	ug/L	MW-2	04/04/2015	ND	4.0000		
Arsenic, total	ug/L	MW-2	10/01/2015	ND	4.0000		
Arsenic, total	ug/L	MW-2	04/04/2016	ND	4.0000		
Arsenic, total	ug/L	MW-2	04/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-2	04/02/2019	ND	4.0000		
Arsenic, total	ug/L	MW-2	03/25/2020	ND	4.0000		
Arsenic, total	ug/L	MW-24	10/16/2014		65.9000		
Arsenic, total	ug/L	MW-24	04/04/2015		25.0000		
Arsenic, total	ug/L	MW-24	10/01/2015		47.2000		
Arsenic, total	ug/L	MW-24	04/04/2016		88.5000		
Arsenic, total	ug/L	MW-24	09/20/2016		51.1000		
Arsenic, total	ug/L	MW-24	04/24/2017		139.0000		
Arsenic, total	ug/L	MW-24	10/09/2017		72.0000		
Arsenic, total	ug/L	MW-24	03/21/2018		155.0000		
Arsenic, total	ug/L	MW-24	09/07/2018		129.0000		
Arsenic, total	ug/L	MW-24	04/02/2019		210.0000	*	
Arsenic, total	ug/L	MW-24	09/18/2019		117.0000		
Arsenic, total	ug/L	MW-24	03/25/2020		167.0000		
Arsenic, total	ug/L	MW-24	09/15/2020		61.6000		
Arsenic, total	ug/L	MW-24	03/08/2021		133.0000		
Arsenic, total	ug/L	MW-24	09/28/2021		142.0000		
Arsenic, total	ug/L	MW-24	03/08/2022		115.0000		
Arsenic, total	ug/L	MW-24	08/30/2022		101.0000		
Arsenic, total	ug/L	MW-24	03/07/2023		12.9000		
Arsenic, total	ug/L	MW-9	10/16/2014		6.1000		
Arsenic, total	ug/L	MW-9	04/04/2015		8.4000		
Arsenic, total	ug/L	MW-9	10/01/2015		8.9000		
Arsenic, total	ug/L	MW-9	04/04/2016		5.9000		
Arsenic, total	ug/L	MW-9	09/20/2016	ND	4.0000		
Arsenic, total	ug/L	MW-9	04/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-9	10/09/2017	ND	4.0000		
Arsenic, total	ug/L	MW-9	03/21/2018	ND	4.0000		
Arsenic, total	ug/L	MW-9	09/07/2018		12.2000		
Arsenic, total	ug/L	MW-9	04/02/2019	ND	4.0000		
Arsenic, total	ug/L	MW-9	09/18/2019		19.4000		
Arsenic, total	ug/L	MW-9	03/25/2020	ND	4.0000		
Arsenic, total	ug/L	MW-9	09/15/2020	ND	4.0000		
Arsenic, total	ug/L	MW-9	03/08/2021	ND	4.0000		
Arsenic, total	ug/L	MW-9	09/28/2021	ND	4.0000		
Arsenic, total	ug/L	MW-9	03/08/2022	ND	4.0000		
Arsenic, total	ug/L	MW-9	08/30/2022	ND	4.0000		
Arsenic, total	ug/L	MW-9	03/07/2023	ND	4.0000		
Barium, total	ug/L	MW-17	10/16/2014		173.0000		
Barium, total	ug/L	MW-17	04/04/2015		185.0000		
Barium, total	ug/L	MW-17	10/01/2015		142.0000		
Barium, total	ug/L	MW-17	04/04/2016		143.0000		
Barium, total	ug/L	MW-17	09/20/2016		174.0000		
Barium, total	ug/L	MW-17	04/24/2017		172.0000		
Barium, total	ug/L	MW-17	10/09/2017		182.0000		
Barium, total	ug/L	MW-17	03/21/2018		233.0000		
Barium, total	ug/L	MW-17	09/07/2018		131.0000		
Barium, total	ug/L	MW-17	04/02/2019		179.0000		
Barium, total	ug/L	MW-17	09/18/2019		138.0000		
Barium, total	ug/L	MW-17	03/25/2020		123.0000		
Barium, total	ug/L	MW-17	09/15/2020		180.0000		
Barium, total	ug/L	MW-17	03/08/2021		160.0000		
Barium, total	ug/L	MW-17	09/28/2021		179.0000		
Barium, total	ug/L	MW-17	03/08/2022		192.0000		
Barium, total	ug/L	MW-17	08/30/2022		137.0000		
Barium, total	ug/L	MW-17	03/07/2023		162.0000		
Barium, total	ug/L	MW-18	10/16/2014		903.0000		
Barium, total	ug/L	MW-18	04/04/2015		1140.0000		
Barium, total	ug/L	MW-18	10/01/2015		822.0000		
Barium, total	ug/L	MW-18	04/04/2016		860.0000		
Barium, total	ug/L	MW-18	09/20/2016		877.0000		
Barium, total	ug/L	MW-18	04/24/2017		827.0000		
Barium, total	ug/L	MW-18	10/09/2017		868.0000		
Barium, total	ug/L	MW-18	03/21/2018		863.0000		
Barium, total	ug/L	MW-18	09/07/2018		831.0000		
Barium, total	ug/L	MW-18	04/02/2019		862.0000		
Barium, total	ug/L	MW-18	09/18/2019		823.0000		
Barium, total	ug/L	MW-18	03/25/2020		897.0000		

* - 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, total	ug/L	MW-18	09/15/2020		898.0000		
Barium, total	ug/L	MW-18	03/08/2021		840.0000		
Barium, total	ug/L	MW-18	09/28/2021		741.0000		
Barium, total	ug/L	MW-18	03/08/2022		792.0000		
Barium, total	ug/L	MW-18	08/30/2022		760.0000		
Barium, total	ug/L	MW-18	03/07/2023		702.0000		
Barium, total	ug/L	MW-19A	10/16/2014		48.9000		
Barium, total	ug/L	MW-19A	04/04/2015		55.5000		
Barium, total	ug/L	MW-19A	10/01/2015		30.0000		
Barium, total	ug/L	MW-19A	04/04/2016		30.4000		
Barium, total	ug/L	MW-19A	09/20/2016		29.5000		
Barium, total	ug/L	MW-19A	04/24/2017		42.1000		
Barium, total	ug/L	MW-19A	10/09/2017		35.1000		
Barium, total	ug/L	MW-19A	03/21/2018		46.9000		
Barium, total	ug/L	MW-19A	09/07/2018		38.7000		
Barium, total	ug/L	MW-19A	04/02/2019		37.9000		
Barium, total	ug/L	MW-19A	09/18/2019		42.5000		
Barium, total	ug/L	MW-19A	03/25/2020		34.2000		
Barium, total	ug/L	MW-19A	09/15/2020		35.8000		
Barium, total	ug/L	MW-19A	03/08/2021		35.2000		
Barium, total	ug/L	MW-19A	09/28/2021		36.1000		
Barium, total	ug/L	MW-19A	03/08/2022		40.1000		
Barium, total	ug/L	MW-19A	08/30/2022		38.3000		
Barium, total	ug/L	MW-19A	03/07/2023		32.5000		
Barium, total	ug/L	MW-2	04/04/2015		418.0000		
Barium, total	ug/L	MW-2	10/01/2015		491.0000		
Barium, total	ug/L	MW-2	04/04/2016		424.0000		
Barium, total	ug/L	MW-2	04/24/2017		125.0000		
Barium, total	ug/L	MW-2	04/02/2019		290.0000		
Barium, total	ug/L	MW-2	03/25/2020		137.0000		
Barium, total	ug/L	MW-24	10/16/2014		1150.0000		
Barium, total	ug/L	MW-24	04/04/2015		671.0000		
Barium, total	ug/L	MW-24	10/01/2015		772.0000		
Barium, total	ug/L	MW-24	04/04/2016		975.0000		
Barium, total	ug/L	MW-24	09/20/2016		641.0000		
Barium, total	ug/L	MW-24	04/24/2017		1260.0000		
Barium, total	ug/L	MW-24	10/09/2017		713.0000		
Barium, total	ug/L	MW-24	03/21/2018		1140.0000		
Barium, total	ug/L	MW-24	09/07/2018		968.0000		
Barium, total	ug/L	MW-24	04/02/2019		1500.0000		
Barium, total	ug/L	MW-24	09/18/2019		1100.0000		
Barium, total	ug/L	MW-24	03/25/2020		1080.0000		
Barium, total	ug/L	MW-24	09/15/2020		638.0000		
Barium, total	ug/L	MW-24	03/08/2021		901.0000		
Barium, total	ug/L	MW-24	09/28/2021		824.0000		
Barium, total	ug/L	MW-24	03/08/2022		801.0000		
Barium, total	ug/L	MW-24	08/30/2022		579.0000		
Barium, total	ug/L	MW-24	03/07/2023		385.0000		
Barium, total	ug/L	MW-9	10/16/2014		271.0000		
Barium, total	ug/L	MW-9	04/04/2015		291.0000		
Barium, total	ug/L	MW-9	10/01/2015		291.0000		
Barium, total	ug/L	MW-9	04/04/2016		259.0000		
Barium, total	ug/L	MW-9	09/20/2016		267.0000		
Barium, total	ug/L	MW-9	04/24/2017		264.0000		
Barium, total	ug/L	MW-9	10/09/2017		253.0000		
Barium, total	ug/L	MW-9	03/21/2018		266.0000		
Barium, total	ug/L	MW-9	09/07/2018		290.0000		
Barium, total	ug/L	MW-9	04/02/2019		270.0000		
Barium, total	ug/L	MW-9	09/18/2019		332.0000		
Barium, total	ug/L	MW-9	03/25/2020		272.0000		
Barium, total	ug/L	MW-9	09/15/2020		285.0000		
Barium, total	ug/L	MW-9	03/08/2021		292.0000		
Barium, total	ug/L	MW-9	09/28/2021		259.0000		
Barium, total	ug/L	MW-9	03/08/2022		291.0000		
Barium, total	ug/L	MW-9	08/30/2022		241.0000		
Barium, total	ug/L	MW-9	03/07/2023		269.0000		
Beryllium, total	ug/L	MW-17	10/16/2014	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/04/2015	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/01/2015	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/04/2016	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/20/2016	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/09/2017	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/21/2018	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	
Beryllium, total	ug/L	MW-17	09/07/2018	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/02/2019	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/15/2020	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/08/2021	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/28/2021	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/08/2022	ND	4.0000		
Beryllium, total	ug/L	MW-17	08/30/2022	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/07/2023	ND	4.0000		
Beryllium, total	ug/L	MW-18	10/16/2014	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/04/2015	ND	4.0000		
Beryllium, total	ug/L	MW-18	10/01/2015	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/04/2016	ND	4.0000		
Beryllium, total	ug/L	MW-18	09/20/2016	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-18	10/09/2017	ND	4.0000		
Beryllium, total	ug/L	MW-18	03/21/2018	ND	4.0000		
Beryllium, total	ug/L	MW-18	09/07/2018	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/02/2019	ND	4.0000		
Beryllium, total	ug/L	MW-18	09/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-18	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-18	09/15/2020	ND	4.0000		
Beryllium, total	ug/L	MW-18	03/08/2021	ND	4.0000		
Beryllium, total	ug/L	MW-18	09/28/2021	ND	4.0000		
Beryllium, total	ug/L	MW-18	03/08/2022	ND	4.0000		
Beryllium, total	ug/L	MW-18	08/30/2022	ND	4.0000		
Beryllium, total	ug/L	MW-18	03/07/2023	ND	4.0000		
Beryllium, total	ug/L	MW-19A	10/16/2014	ND	4.0000		
Beryllium, total	ug/L	MW-19A	04/04/2015	ND	4.0000		
Beryllium, total	ug/L	MW-19A	10/01/2015	ND	4.0000		
Beryllium, total	ug/L	MW-19A	04/04/2016	ND	4.0000		
Beryllium, total	ug/L	MW-19A	09/20/2016	ND	4.0000		
Beryllium, total	ug/L	MW-19A	04/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-19A	10/09/2017	ND	4.0000		
Beryllium, total	ug/L	MW-19A	03/21/2018	ND	4.0000		
Beryllium, total	ug/L	MW-19A	09/07/2018	ND	4.0000		
Beryllium, total	ug/L	MW-19A	04/02/2019	ND	4.0000		
Beryllium, total	ug/L	MW-19A	09/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-19A	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-19A	09/15/2020	ND	4.0000		
Beryllium, total	ug/L	MW-19A	03/08/2021	ND	4.0000		
Beryllium, total	ug/L	MW-19A	09/28/2021	ND	4.0000		
Beryllium, total	ug/L	MW-19A	03/08/2022	ND	4.0000		
Beryllium, total	ug/L	MW-19A	08/30/2022	ND	4.0000		
Beryllium, total	ug/L	MW-19A	03/07/2023	ND	4.0000		
Beryllium, total	ug/L	MW-2	04/04/2015	ND	4.0000		
Beryllium, total	ug/L	MW-2	10/01/2015	ND	4.0000		
Beryllium, total	ug/L	MW-2	04/04/2016	ND	4.0000		
Beryllium, total	ug/L	MW-2	04/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-2	04/02/2019	ND	4.0000		
Beryllium, total	ug/L	MW-2	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-24	10/16/2014	ND	4.0000		
Beryllium, total	ug/L	MW-24	04/04/2015	ND	4.0000		
Beryllium, total	ug/L	MW-24	10/01/2015	ND	4.0000		
Beryllium, total	ug/L	MW-24	04/04/2016	ND	4.0000		
Beryllium, total	ug/L	MW-24	09/20/2016	ND	4.0000		
Beryllium, total	ug/L	MW-24	04/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-24	10/09/2017	ND	4.0000		
Beryllium, total	ug/L	MW-24	03/21/2018	ND	4.0000		
Beryllium, total	ug/L	MW-24	09/07/2018	ND	4.0000		
Beryllium, total	ug/L	MW-24	04/02/2019	ND	4.0000		
Beryllium, total	ug/L	MW-24	09/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-24	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-24	09/15/2020	ND	4.0000		
Beryllium, total	ug/L	MW-24	03/08/2021	ND	4.0000		
Beryllium, total	ug/L	MW-24	09/28/2021	ND	4.0000		
Beryllium, total	ug/L	MW-24	03/08/2022	ND	4.0000		
Beryllium, total	ug/L	MW-24	08/30/2022	ND	4.0000		
Beryllium, total	ug/L	MW-24	03/07/2023	ND	4.0000		
Beryllium, total	ug/L	MW-9	10/16/2014	ND	4.0000		
Beryllium, total	ug/L	MW-9	04/04/2015	ND	4.0000		
Beryllium, total	ug/L	MW-9	10/01/2015	ND	4.0000		
Beryllium, total	ug/L	MW-9	04/04/2016	ND	4.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Beryllium, total	ug/L	MW-9	09/20/2016	ND	4.0000		
Beryllium, total	ug/L	MW-9	04/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-9	10/09/2017	ND	4.0000		
Beryllium, total	ug/L	MW-9	03/21/2018	ND	4.0000		
Beryllium, total	ug/L	MW-9	09/07/2018	ND	4.0000		
Beryllium, total	ug/L	MW-9	04/02/2019	ND	4.0000		
Beryllium, total	ug/L	MW-9	09/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-9	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-9	09/15/2020	ND	4.0000		
Beryllium, total	ug/L	MW-9	03/08/2021	ND	4.0000		
Beryllium, total	ug/L	MW-9	09/28/2021	ND	4.0000		
Beryllium, total	ug/L	MW-9	03/08/2022	ND	4.0000		
Beryllium, total	ug/L	MW-9	08/30/2022	ND	4.0000		
Beryllium, total	ug/L	MW-9	03/07/2023	ND	4.0000		
Cadmium, total	ug/L	MW-17	10/16/2014	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/04/2015	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/01/2015	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/04/2016	ND	1.0000		
Cadmium, total	ug/L	MW-17	09/20/2016	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/24/2017	ND	0.9000		
Cadmium, total	ug/L	MW-17	10/09/2017	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/21/2018	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/07/2018	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/02/2019	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/15/2020	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/08/2021	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/28/2021	ND	1.1000		
Cadmium, total	ug/L	MW-17	03/08/2022	ND	0.8000		
Cadmium, total	ug/L	MW-17	08/30/2022	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/07/2023	ND	0.8000		
Cadmium, total	ug/L	MW-18	10/16/2014		1.7000		
Cadmium, total	ug/L	MW-18	04/04/2015		3.9000		*
Cadmium, total	ug/L	MW-18	10/01/2015	ND	0.8000		
Cadmium, total	ug/L	MW-18	04/04/2016		1.0000		
Cadmium, total	ug/L	MW-18	09/20/2016		0.9000		
Cadmium, total	ug/L	MW-18	04/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-18	10/09/2017	ND	0.8000		
Cadmium, total	ug/L	MW-18	03/21/2018	ND	0.8000		
Cadmium, total	ug/L	MW-18	09/07/2018	ND	0.8000		
Cadmium, total	ug/L	MW-18	04/02/2019	ND	0.8000		
Cadmium, total	ug/L	MW-18	09/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-18	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-18	09/15/2020	ND	0.8000		
Cadmium, total	ug/L	MW-18	03/08/2021	ND	0.8000		
Cadmium, total	ug/L	MW-18	09/28/2021	ND	1.2000		
Cadmium, total	ug/L	MW-18	03/08/2022	ND	0.8000		
Cadmium, total	ug/L	MW-18	08/30/2022	ND	0.8000		
Cadmium, total	ug/L	MW-18	03/07/2023	ND	0.8000		
Cadmium, total	ug/L	MW-19A	10/16/2014	ND	0.8000		
Cadmium, total	ug/L	MW-19A	04/04/2015	ND	0.8000		
Cadmium, total	ug/L	MW-19A	10/01/2015	ND	0.8000		
Cadmium, total	ug/L	MW-19A	04/04/2016	ND	0.8000		
Cadmium, total	ug/L	MW-19A	09/20/2016	ND	0.8000		
Cadmium, total	ug/L	MW-19A	04/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-19A	10/09/2017	ND	0.8000		
Cadmium, total	ug/L	MW-19A	03/21/2018	ND	0.8000		
Cadmium, total	ug/L	MW-19A	09/07/2018	ND	0.8000		
Cadmium, total	ug/L	MW-19A	04/02/2019	ND	0.8000		
Cadmium, total	ug/L	MW-19A	09/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-19A	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-19A	09/15/2020	ND	0.8000		
Cadmium, total	ug/L	MW-19A	03/08/2021	ND	0.8000		
Cadmium, total	ug/L	MW-19A	09/28/2021	ND	0.8000		
Cadmium, total	ug/L	MW-19A	03/08/2022	ND	0.8000		
Cadmium, total	ug/L	MW-19A	08/30/2022	ND	0.8000		
Cadmium, total	ug/L	MW-19A	03/07/2023	ND	0.8000		
Cadmium, total	ug/L	MW-2	04/04/2015	ND	0.8000		
Cadmium, total	ug/L	MW-2	10/01/2015	ND	0.8000		
Cadmium, total	ug/L	MW-2	04/04/2016	ND	0.8000		
Cadmium, total	ug/L	MW-2	04/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-2	04/02/2019	ND	0.8000		
Cadmium, total	ug/L	MW-2	03/25/2020	ND	0.8000		

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 *** - ND value replaced with manual RL.
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Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW-24	10/16/2014		1.6000		
Cadmium, total	ug/L	MW-24	04/04/2015	ND	0.8000		
Cadmium, total	ug/L	MW-24	10/01/2015	ND	0.8000		
Cadmium, total	ug/L	MW-24	04/04/2016		0.8000		
Cadmium, total	ug/L	MW-24	09/20/2016	ND	0.8000		
Cadmium, total	ug/L	MW-24	04/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-24	10/09/2017	ND	0.8000		
Cadmium, total	ug/L	MW-24	03/21/2018	ND	0.8000		
Cadmium, total	ug/L	MW-24	09/07/2018	ND	0.8000		
Cadmium, total	ug/L	MW-24	04/02/2019		1.8000		
Cadmium, total	ug/L	MW-24	09/18/2019		1.0000		
Cadmium, total	ug/L	MW-24	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-24	09/15/2020	ND	0.8000		
Cadmium, total	ug/L	MW-24	03/08/2021		2.4000		
Cadmium, total	ug/L	MW-24	09/28/2021	ND	0.8000		
Cadmium, total	ug/L	MW-24	03/08/2022		0.8000		
Cadmium, total	ug/L	MW-24	08/30/2022	ND	0.8000		
Cadmium, total	ug/L	MW-24	03/07/2023	ND	0.8000		
Cadmium, total	ug/L	MW-9	10/16/2014	ND	0.8000		
Cadmium, total	ug/L	MW-9	04/04/2015	ND	0.8000		
Cadmium, total	ug/L	MW-9	10/01/2015	ND	0.8000		
Cadmium, total	ug/L	MW-9	04/04/2016		1.5000		
Cadmium, total	ug/L	MW-9	09/20/2016	ND	0.8000		
Cadmium, total	ug/L	MW-9	04/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-9	10/09/2017	ND	0.8000		
Cadmium, total	ug/L	MW-9	03/21/2018	ND	0.8000		
Cadmium, total	ug/L	MW-9	09/07/2018	ND	0.8000		
Cadmium, total	ug/L	MW-9	04/02/2019	ND	0.8000		
Cadmium, total	ug/L	MW-9	09/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-9	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-9	09/15/2020	ND	0.8000		
Cadmium, total	ug/L	MW-9	03/08/2021	ND	0.8000		
Cadmium, total	ug/L	MW-9	09/28/2021	ND	0.8000		
Cadmium, total	ug/L	MW-9	03/08/2022	ND	0.8000		
Cadmium, total	ug/L	MW-9	08/30/2022	ND	0.8000		
Cadmium, total	ug/L	MW-9	03/07/2023	ND	0.8000		
Chromium, total	ug/L	MW-17	10/16/2014	ND	8.0000		
Chromium, total	ug/L	MW-17	04/04/2015	ND	8.0000		
Chromium, total	ug/L	MW-17	10/01/2015	ND	8.0000		
Chromium, total	ug/L	MW-17	04/04/2016	ND	8.0000		
Chromium, total	ug/L	MW-17	09/20/2016	ND	8.0000		
Chromium, total	ug/L	MW-17	04/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-17	10/09/2017	ND	8.0000		
Chromium, total	ug/L	MW-17	03/21/2018	ND	8.0000		
Chromium, total	ug/L	MW-17	09/07/2018	ND	8.0000		
Chromium, total	ug/L	MW-17	04/02/2019	ND	8.0000		
Chromium, total	ug/L	MW-17	09/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-17	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-17	09/15/2020	ND	8.0000		
Chromium, total	ug/L	MW-17	03/08/2021	ND	8.0000		
Chromium, total	ug/L	MW-17	09/28/2021	ND	8.0000		
Chromium, total	ug/L	MW-17	03/08/2022	ND	8.0000		
Chromium, total	ug/L	MW-17	08/30/2022	ND	8.0000		
Chromium, total	ug/L	MW-17	03/07/2023	ND	8.0000		
Chromium, total	ug/L	MW-18	10/16/2014		11.6000		
Chromium, total	ug/L	MW-18	04/04/2015		26.4000		*
Chromium, total	ug/L	MW-18	10/01/2015	ND	8.0000		
Chromium, total	ug/L	MW-18	04/04/2016	ND	8.0000		
Chromium, total	ug/L	MW-18	09/20/2016		10.5000		
Chromium, total	ug/L	MW-18	04/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-18	10/09/2017	ND	8.0000		
Chromium, total	ug/L	MW-18	03/21/2018	ND	8.0000		
Chromium, total	ug/L	MW-18	09/07/2018	ND	8.0000		
Chromium, total	ug/L	MW-18	04/02/2019	ND	8.0000		
Chromium, total	ug/L	MW-18	09/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-18	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-18	09/15/2020	ND	8.0000		
Chromium, total	ug/L	MW-18	03/08/2021	ND	8.0000		
Chromium, total	ug/L	MW-18	09/28/2021	ND	8.0000		
Chromium, total	ug/L	MW-18	03/08/2022	ND	8.0000		
Chromium, total	ug/L	MW-18	08/30/2022	ND	8.0000		
Chromium, total	ug/L	MW-18	03/07/2023	ND	8.0000		
Chromium, total	ug/L	MW-19A	10/16/2014	ND	8.0000		
Chromium, total	ug/L	MW-19A	04/04/2015	ND	8.0000		

* - 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, total	ug/L	MW-19A	10/01/2015	ND	8.0000		
Chromium, total	ug/L	MW-19A	04/04/2016	ND	8.0000		
Chromium, total	ug/L	MW-19A	09/20/2016	ND	8.0000		
Chromium, total	ug/L	MW-19A	04/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-19A	10/09/2017	ND	8.0000		
Chromium, total	ug/L	MW-19A	03/21/2018	ND	8.0000		
Chromium, total	ug/L	MW-19A	09/07/2018	ND	8.0000		
Chromium, total	ug/L	MW-19A	04/02/2019	ND	8.0000		
Chromium, total	ug/L	MW-19A	09/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-19A	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-19A	09/15/2020	ND	8.0000		
Chromium, total	ug/L	MW-19A	03/08/2021	ND	8.0000		
Chromium, total	ug/L	MW-19A	09/28/2021	ND	8.0000		
Chromium, total	ug/L	MW-19A	03/08/2022	ND	8.0000		
Chromium, total	ug/L	MW-19A	08/30/2022	ND	8.0000		
Chromium, total	ug/L	MW-19A	03/07/2023	ND	8.0000		
Chromium, total	ug/L	MW-2	04/04/2015	ND	8.0000		
Chromium, total	ug/L	MW-2	10/01/2015	ND	8.0000		
Chromium, total	ug/L	MW-2	04/04/2016	ND	8.0000		
Chromium, total	ug/L	MW-2	04/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-2	04/02/2019	ND	8.0000		
Chromium, total	ug/L	MW-2	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-24	10/16/2014		37.5000		*
Chromium, total	ug/L	MW-24	04/04/2015	ND	8.0000		
Chromium, total	ug/L	MW-24	10/01/2015	ND	8.0000		
Chromium, total	ug/L	MW-24	04/04/2016	ND	8.0000		
Chromium, total	ug/L	MW-24	09/20/2016	ND	8.0000		
Chromium, total	ug/L	MW-24	04/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-24	10/09/2017	ND	8.0000		
Chromium, total	ug/L	MW-24	03/21/2018	ND	8.0000		
Chromium, total	ug/L	MW-24	09/07/2018	ND	8.0000		
Chromium, total	ug/L	MW-24	04/02/2019	ND	8.0000		
Chromium, total	ug/L	MW-24	09/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-24	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-24	09/15/2020	ND	8.0000		
Chromium, total	ug/L	MW-24	03/08/2021	ND	8.0000		
Chromium, total	ug/L	MW-24	09/28/2021	ND	8.0000		
Chromium, total	ug/L	MW-24	03/08/2022	ND	8.0000		
Chromium, total	ug/L	MW-24	08/30/2022	ND	8.0000		
Chromium, total	ug/L	MW-24	03/07/2023	ND	8.0000		
Chromium, total	ug/L	MW-9	10/16/2014	ND	8.0000		
Chromium, total	ug/L	MW-9	04/04/2015	ND	8.0000		
Chromium, total	ug/L	MW-9	10/01/2015	ND	8.0000		
Chromium, total	ug/L	MW-9	04/04/2016	ND	8.0000		
Chromium, total	ug/L	MW-9	09/20/2016	ND	8.0000		
Chromium, total	ug/L	MW-9	04/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-9	10/09/2017	ND	8.0000		
Chromium, total	ug/L	MW-9	03/21/2018	ND	8.0000		
Chromium, total	ug/L	MW-9	09/07/2018	ND	8.0000		
Chromium, total	ug/L	MW-9	04/02/2019	ND	8.0000		
Chromium, total	ug/L	MW-9	09/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-9	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-9	09/15/2020	ND	8.0000		
Chromium, total	ug/L	MW-9	03/08/2021	ND	8.0000		
Chromium, total	ug/L	MW-9	09/28/2021	ND	8.0000		
Chromium, total	ug/L	MW-9	03/08/2022	ND	8.0000		
Chromium, total	ug/L	MW-9	08/30/2022	ND	8.0000		
Chromium, total	ug/L	MW-9	03/07/2023	ND	8.0000		
Cobalt, total	ug/L	MW-17	10/16/2014		8.1000		
Cobalt, total	ug/L	MW-17	04/04/2015		9.7000		
Cobalt, total	ug/L	MW-17	10/01/2015		7.0000		
Cobalt, total	ug/L	MW-17	04/04/2016		4.6000		
Cobalt, total	ug/L	MW-17	09/20/2016		4.3000		
Cobalt, total	ug/L	MW-17	04/24/2017		5.2000		
Cobalt, total	ug/L	MW-17	10/09/2017		6.9000		
Cobalt, total	ug/L	MW-17	03/21/2018		23.0000		
Cobalt, total	ug/L	MW-17	09/07/2018		8.6000		
Cobalt, total	ug/L	MW-17	04/02/2019		46.5000		*
Cobalt, total	ug/L	MW-17	09/18/2019		54.8000		*
Cobalt, total	ug/L	MW-17	03/25/2020		7.2000		
Cobalt, total	ug/L	MW-17	09/15/2020		11.3000		
Cobalt, total	ug/L	MW-17	03/08/2021		7.4000		
Cobalt, total	ug/L	MW-17	09/28/2021		13.4000		
Cobalt, total	ug/L	MW-17	03/08/2022		5.5000		

* - Outlier for that well and constituent.
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 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cobalt, total	ug/L	MW-17	08/30/2022		1.5000		
Cobalt, total	ug/L	MW-17	03/07/2023		13.0000		
Cobalt, total	ug/L	MW-18	10/16/2014		23.5000		
Cobalt, total	ug/L	MW-18	04/04/2015		35.1000		*
Cobalt, total	ug/L	MW-18	10/01/2015		9.8000		
Cobalt, total	ug/L	MW-18	04/04/2016		12.0000		
Cobalt, total	ug/L	MW-18	09/20/2016		17.1000		
Cobalt, total	ug/L	MW-18	04/24/2017		8.5000		
Cobalt, total	ug/L	MW-18	10/09/2017		7.1000		
Cobalt, total	ug/L	MW-18	03/21/2018		5.5000		
Cobalt, total	ug/L	MW-18	09/07/2018		5.8000		
Cobalt, total	ug/L	MW-18	04/02/2019		4.1000		
Cobalt, total	ug/L	MW-18	09/18/2019		3.9000		
Cobalt, total	ug/L	MW-18	03/25/2020		3.6000		
Cobalt, total	ug/L	MW-18	09/15/2020		17.8000		
Cobalt, total	ug/L	MW-18	03/08/2021		9.2000		
Cobalt, total	ug/L	MW-18	09/28/2021		4.9000		
Cobalt, total	ug/L	MW-18	03/08/2022		4.0000		
Cobalt, total	ug/L	MW-18	08/30/2022		9.1000		
Cobalt, total	ug/L	MW-18	03/07/2023		9.2000		
Cobalt, total	ug/L	MW-19A	10/16/2014	ND	0.8000		
Cobalt, total	ug/L	MW-19A	04/04/2015	ND	0.8000		
Cobalt, total	ug/L	MW-19A	10/01/2015	ND	0.8000		
Cobalt, total	ug/L	MW-19A	04/04/2016	ND	0.8000		
Cobalt, total	ug/L	MW-19A	09/20/2016	ND	0.8000		
Cobalt, total	ug/L	MW-19A	04/24/2017	ND	0.8000		
Cobalt, total	ug/L	MW-19A	10/09/2017	ND	0.8000		
Cobalt, total	ug/L	MW-19A	03/21/2018	ND	2.0000	0.8000	**
Cobalt, total	ug/L	MW-19A	09/07/2018	ND	0.8000		
Cobalt, total	ug/L	MW-19A	04/02/2019	ND	0.8000		
Cobalt, total	ug/L	MW-19A	09/18/2019		0.8000		
Cobalt, total	ug/L	MW-19A	03/25/2020		0.8000		
Cobalt, total	ug/L	MW-19A	09/15/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-19A	03/08/2021		0.4000		
Cobalt, total	ug/L	MW-19A	09/28/2021		0.4000		
Cobalt, total	ug/L	MW-19A	03/08/2022		0.6000		
Cobalt, total	ug/L	MW-19A	08/30/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-19A	03/07/2023		0.4000		
Cobalt, total	ug/L	MW-2	04/04/2015		7.4000		
Cobalt, total	ug/L	MW-2	10/01/2015		6.4000		
Cobalt, total	ug/L	MW-2	04/04/2016		8.2000		
Cobalt, total	ug/L	MW-2	04/24/2017	ND	0.8000		
Cobalt, total	ug/L	MW-2	04/02/2019	ND	0.8000		
Cobalt, total	ug/L	MW-2	03/25/2020	ND	0.8000		
Cobalt, total	ug/L	MW-24	10/16/2014		37.2000		*
Cobalt, total	ug/L	MW-24	04/04/2015		14.0000		
Cobalt, total	ug/L	MW-24	10/01/2015		2.0000		
Cobalt, total	ug/L	MW-24	04/04/2016		3.7000		
Cobalt, total	ug/L	MW-24	09/20/2016		5.6000		
Cobalt, total	ug/L	MW-24	04/24/2017		2.2000		
Cobalt, total	ug/L	MW-24	10/09/2017		1.2000		
Cobalt, total	ug/L	MW-24	03/21/2018	ND	2.0000	0.8000	**
Cobalt, total	ug/L	MW-24	09/07/2018		0.9000		
Cobalt, total	ug/L	MW-24	04/02/2019		2.0000		
Cobalt, total	ug/L	MW-24	09/18/2019		1.6000		
Cobalt, total	ug/L	MW-24	03/25/2020		2.1000		
Cobalt, total	ug/L	MW-24	09/15/2020		0.8000		
Cobalt, total	ug/L	MW-24	03/08/2021		1.1000		
Cobalt, total	ug/L	MW-24	09/28/2021		1.0000		
Cobalt, total	ug/L	MW-24	03/08/2022		1.7000		
Cobalt, total	ug/L	MW-24	08/30/2022		0.6000		
Cobalt, total	ug/L	MW-24	03/07/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-9	10/16/2014		5.8000		
Cobalt, total	ug/L	MW-9	04/04/2015		6.0000		
Cobalt, total	ug/L	MW-9	10/01/2015		4.6000		
Cobalt, total	ug/L	MW-9	04/04/2016		5.7000		
Cobalt, total	ug/L	MW-9	09/20/2016		6.4000		
Cobalt, total	ug/L	MW-9	04/24/2017		5.2000		
Cobalt, total	ug/L	MW-9	10/09/2017		4.9000		
Cobalt, total	ug/L	MW-9	03/21/2018		5.3000		
Cobalt, total	ug/L	MW-9	09/07/2018		5.4000		
Cobalt, total	ug/L	MW-9	04/02/2019		5.4000		
Cobalt, total	ug/L	MW-9	09/18/2019		5.7000		
Cobalt, total	ug/L	MW-9	03/25/2020		5.3000		

* - 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, total	ug/L	MW-9	09/15/2020		5.8000		
Cobalt, total	ug/L	MW-9	03/08/2021		5.1000		
Cobalt, total	ug/L	MW-9	09/28/2021		4.8000		
Cobalt, total	ug/L	MW-9	03/08/2022		5.1000		
Cobalt, total	ug/L	MW-9	08/30/2022		5.0000		
Cobalt, total	ug/L	MW-9	03/07/2023		4.8000		
Copper, total	ug/L	MW-17	10/16/2014		4.6000		
Copper, total	ug/L	MW-17	04/04/2015	ND	4.0000		
Copper, total	ug/L	MW-17	10/01/2015	ND	4.0000		
Copper, total	ug/L	MW-17	04/04/2016	ND	4.0000		
Copper, total	ug/L	MW-17	09/20/2016	ND	4.0000		
Copper, total	ug/L	MW-17	04/24/2017	ND	4.0000		
Copper, total	ug/L	MW-17	10/09/2017		5.3000		
Copper, total	ug/L	MW-17	03/21/2018		4.3000		
Copper, total	ug/L	MW-17	09/07/2018	ND	4.0000		
Copper, total	ug/L	MW-17	04/02/2019	ND	4.0000		
Copper, total	ug/L	MW-17	09/18/2019	ND	4.0000		
Copper, total	ug/L	MW-17	03/25/2020		4.2000		
Copper, total	ug/L	MW-17	09/15/2020		4.3000		
Copper, total	ug/L	MW-17	03/08/2021	ND	4.0000		
Copper, total	ug/L	MW-17	09/28/2021		7.4000		
Copper, total	ug/L	MW-17	03/08/2022		4.0000		
Copper, total	ug/L	MW-17	08/30/2022	ND	4.0000		
Copper, total	ug/L	MW-17	03/07/2023	ND	4.0000		
Copper, total	ug/L	MW-18	10/16/2014		31.3000		
Copper, total	ug/L	MW-18	04/04/2015		69.3000		*
Copper, total	ug/L	MW-18	10/01/2015	ND	4.0000		
Copper, total	ug/L	MW-18	04/04/2016	ND	4.0000		
Copper, total	ug/L	MW-18	09/20/2016		16.0000		
Copper, total	ug/L	MW-18	04/24/2017	ND	4.0000		
Copper, total	ug/L	MW-18	10/09/2017	ND	4.0000		
Copper, total	ug/L	MW-18	03/21/2018	ND	4.0000		
Copper, total	ug/L	MW-18	09/07/2018	ND	4.0000		
Copper, total	ug/L	MW-18	04/02/2019	ND	4.0000		
Copper, total	ug/L	MW-18	09/18/2019	ND	4.0000		
Copper, total	ug/L	MW-18	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-18	09/15/2020	ND	4.0000		
Copper, total	ug/L	MW-18	03/08/2021	ND	4.0000		
Copper, total	ug/L	MW-18	09/28/2021	ND	4.0000		
Copper, total	ug/L	MW-18	03/08/2022	ND	4.0000		
Copper, total	ug/L	MW-18	08/30/2022	ND	4.0000		
Copper, total	ug/L	MW-18	03/07/2023	ND	4.0000		
Copper, total	ug/L	MW-19A	10/16/2014	ND	4.0000		
Copper, total	ug/L	MW-19A	04/04/2015	ND	4.0000		
Copper, total	ug/L	MW-19A	10/01/2015	ND	4.0000		
Copper, total	ug/L	MW-19A	04/04/2016	ND	4.0000		
Copper, total	ug/L	MW-19A	09/20/2016	ND	4.0000		
Copper, total	ug/L	MW-19A	04/24/2017	ND	4.0000		
Copper, total	ug/L	MW-19A	10/09/2017	ND	4.0000		
Copper, total	ug/L	MW-19A	03/21/2018	ND	4.0000		
Copper, total	ug/L	MW-19A	09/07/2018	ND	4.0000		
Copper, total	ug/L	MW-19A	04/02/2019	ND	4.0000		
Copper, total	ug/L	MW-19A	09/18/2019	ND	4.0000		
Copper, total	ug/L	MW-19A	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-19A	09/15/2020	ND	4.0000		
Copper, total	ug/L	MW-19A	03/08/2021	ND	4.0000		
Copper, total	ug/L	MW-19A	09/28/2021	ND	4.0000		
Copper, total	ug/L	MW-19A	03/08/2022	ND	4.0000		
Copper, total	ug/L	MW-19A	08/30/2022	ND	4.0000		
Copper, total	ug/L	MW-19A	03/07/2023	ND	4.0000		
Copper, total	ug/L	MW-2	04/04/2015	ND	4.0000		
Copper, total	ug/L	MW-2	10/01/2015	ND	4.0000		
Copper, total	ug/L	MW-2	04/04/2016	ND	4.0000		
Copper, total	ug/L	MW-2	04/24/2017	ND	4.0000		
Copper, total	ug/L	MW-2	04/02/2019	ND	4.0000		
Copper, total	ug/L	MW-2	03/25/2020		117.0000		*
Copper, total	ug/L	MW-24	10/16/2014		67.1000		*
Copper, total	ug/L	MW-24	04/04/2015		10.0000		
Copper, total	ug/L	MW-24	10/01/2015	ND	4.0000		
Copper, total	ug/L	MW-24	04/04/2016	ND	4.0000		
Copper, total	ug/L	MW-24	09/20/2016	ND	4.0000		
Copper, total	ug/L	MW-24	04/24/2017	ND	4.0000		
Copper, total	ug/L	MW-24	10/09/2017	ND	4.0000		
Copper, total	ug/L	MW-24	03/21/2018	ND	4.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Copper, total	ug/L	MW-24	09/07/2018	ND	4.0000		
Copper, total	ug/L	MW-24	04/02/2019	ND	4.0000		
Copper, total	ug/L	MW-24	09/18/2019	ND	4.0000		
Copper, total	ug/L	MW-24	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-24	09/15/2020	ND	4.0000		
Copper, total	ug/L	MW-24	03/08/2021	ND	4.0000		
Copper, total	ug/L	MW-24	09/28/2021	ND	4.0000		
Copper, total	ug/L	MW-24	03/08/2022	ND	4.0000		
Copper, total	ug/L	MW-24	08/30/2022	ND	4.0000		
Copper, total	ug/L	MW-24	03/07/2023	ND	4.0000		
Copper, total	ug/L	MW-9	10/16/2014		4.3000		
Copper, total	ug/L	MW-9	04/04/2015		26.3000		*
Copper, total	ug/L	MW-9	10/01/2015	ND	4.0000		
Copper, total	ug/L	MW-9	04/04/2016		5.3000		
Copper, total	ug/L	MW-9	09/20/2016		8.4000		
Copper, total	ug/L	MW-9	04/24/2017	ND	4.0000		
Copper, total	ug/L	MW-9	10/09/2017	ND	4.0000		
Copper, total	ug/L	MW-9	03/21/2018		18.0000		*
Copper, total	ug/L	MW-9	06/11/2018	ND	4.0000		
Copper, total	ug/L	MW-9	09/07/2018	ND	4.0000		
Copper, total	ug/L	MW-9	04/02/2019	ND	4.0000		
Copper, total	ug/L	MW-9	09/18/2019		7.1000		
Copper, total	ug/L	MW-9	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-9	09/15/2020	ND	4.0000		
Copper, total	ug/L	MW-9	03/08/2021	ND	4.0000		
Copper, total	ug/L	MW-9	09/28/2021	ND	4.0000		
Copper, total	ug/L	MW-9	03/08/2022	ND	4.0000		
Copper, total	ug/L	MW-9	08/30/2022	ND	4.0000		
Copper, total	ug/L	MW-9	03/07/2023	ND	4.0000		
Lead, total	ug/L	MW-17	10/16/2014	ND	4.0000		
Lead, total	ug/L	MW-17	04/04/2015	ND	4.0000		
Lead, total	ug/L	MW-17	10/01/2015	ND	4.0000		
Lead, total	ug/L	MW-17	04/04/2016	ND	4.0000		
Lead, total	ug/L	MW-17	09/20/2016	ND	4.0000		
Lead, total	ug/L	MW-17	04/24/2017	ND	4.0000		
Lead, total	ug/L	MW-17	10/09/2017	ND	4.0000		
Lead, total	ug/L	MW-17	03/21/2018	ND	4.0000		
Lead, total	ug/L	MW-17	09/07/2018	ND	4.0000		
Lead, total	ug/L	MW-17	04/02/2019	ND	4.0000		
Lead, total	ug/L	MW-17	09/18/2019	ND	4.0000		
Lead, total	ug/L	MW-17	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-17	09/15/2020	ND	4.0000		
Lead, total	ug/L	MW-17	03/08/2021	ND	4.0000		
Lead, total	ug/L	MW-17	09/28/2021	ND	4.0000		
Lead, total	ug/L	MW-17	03/08/2022	ND	4.0000		
Lead, total	ug/L	MW-17	08/30/2022	ND	4.0000		
Lead, total	ug/L	MW-17	03/07/2023	ND	4.0000		
Lead, total	ug/L	MW-18	10/16/2014		12.4000		
Lead, total	ug/L	MW-18	04/04/2015		27.2000		*
Lead, total	ug/L	MW-18	10/01/2015	ND	4.0000		
Lead, total	ug/L	MW-18	04/04/2016	ND	4.0000		
Lead, total	ug/L	MW-18	09/20/2016		6.2000		
Lead, total	ug/L	MW-18	04/24/2017	ND	4.0000		
Lead, total	ug/L	MW-18	10/09/2017	ND	4.0000		
Lead, total	ug/L	MW-18	03/21/2018	ND	4.0000		
Lead, total	ug/L	MW-18	09/07/2018	ND	4.0000		
Lead, total	ug/L	MW-18	04/02/2019	ND	4.0000		
Lead, total	ug/L	MW-18	09/18/2019	ND	4.0000		
Lead, total	ug/L	MW-18	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-18	09/15/2020	ND	4.0000		
Lead, total	ug/L	MW-18	03/08/2021	ND	4.0000		
Lead, total	ug/L	MW-18	09/28/2021	ND	4.0000		
Lead, total	ug/L	MW-18	03/08/2022	ND	4.0000		
Lead, total	ug/L	MW-18	08/30/2022	ND	4.0000		
Lead, total	ug/L	MW-18	03/07/2023	ND	4.0000		
Lead, total	ug/L	MW-19A	10/16/2014	ND	4.0000		
Lead, total	ug/L	MW-19A	04/04/2015	ND	4.0000		
Lead, total	ug/L	MW-19A	10/01/2015	ND	4.0000		
Lead, total	ug/L	MW-19A	04/04/2016	ND	4.0000		
Lead, total	ug/L	MW-19A	09/20/2016	ND	4.0000		
Lead, total	ug/L	MW-19A	04/24/2017	ND	4.0000		
Lead, total	ug/L	MW-19A	10/09/2017	ND	4.0000		
Lead, total	ug/L	MW-19A	03/21/2018	ND	4.0000		
Lead, total	ug/L	MW-19A	09/07/2018	ND	4.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lead, total	ug/L	MW-19A	04/02/2019	ND	4.0000		
Lead, total	ug/L	MW-19A	09/18/2019	ND	4.0000		
Lead, total	ug/L	MW-19A	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-19A	09/15/2020	ND	4.0000		
Lead, total	ug/L	MW-19A	03/08/2021	ND	4.0000		
Lead, total	ug/L	MW-19A	09/28/2021	ND	4.0000		
Lead, total	ug/L	MW-19A	03/08/2022	ND	4.0000		
Lead, total	ug/L	MW-19A	08/30/2022	ND	4.0000		
Lead, total	ug/L	MW-19A	03/07/2023	ND	4.0000		
Lead, total	ug/L	MW-2	04/04/2015	ND	4.0000		
Lead, total	ug/L	MW-2	10/01/2015	ND	4.0000		
Lead, total	ug/L	MW-2	04/04/2016	ND	4.0000		
Lead, total	ug/L	MW-2	04/24/2017	ND	4.0000		
Lead, total	ug/L	MW-2	04/02/2019		13.6000		
Lead, total	ug/L	MW-2	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-24	10/16/2014		27.0000		*
Lead, total	ug/L	MW-24	04/04/2015	ND	4.0000		
Lead, total	ug/L	MW-24	10/01/2015	ND	4.0000		
Lead, total	ug/L	MW-24	04/04/2016	ND	4.0000		
Lead, total	ug/L	MW-24	09/20/2016	ND	4.0000		
Lead, total	ug/L	MW-24	04/24/2017	ND	4.0000		
Lead, total	ug/L	MW-24	10/09/2017	ND	4.0000		
Lead, total	ug/L	MW-24	03/21/2018	ND	4.0000		
Lead, total	ug/L	MW-24	09/07/2018	ND	4.0000		
Lead, total	ug/L	MW-24	04/02/2019		6.8000		
Lead, total	ug/L	MW-24	09/18/2019	ND	4.0000		
Lead, total	ug/L	MW-24	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-24	09/15/2020	ND	4.0000		
Lead, total	ug/L	MW-24	03/08/2021	ND	4.0000		
Lead, total	ug/L	MW-24	09/28/2021	ND	4.0000		
Lead, total	ug/L	MW-24	03/08/2022	ND	4.0000		
Lead, total	ug/L	MW-24	08/30/2022	ND	4.0000		
Lead, total	ug/L	MW-24	03/07/2023	ND	4.0000		
Lead, total	ug/L	MW-9	10/16/2014	ND	4.0000		
Lead, total	ug/L	MW-9	04/04/2015	ND	4.0000		
Lead, total	ug/L	MW-9	10/01/2015	ND	4.0000		
Lead, total	ug/L	MW-9	04/04/2016	ND	4.0000		
Lead, total	ug/L	MW-9	09/20/2016	ND	4.0000		
Lead, total	ug/L	MW-9	04/24/2017	ND	4.0000		
Lead, total	ug/L	MW-9	10/09/2017	ND	4.0000		
Lead, total	ug/L	MW-9	03/21/2018	ND	4.0000		
Lead, total	ug/L	MW-9	09/07/2018	ND	4.0000		
Lead, total	ug/L	MW-9	04/02/2019	ND	4.0000		
Lead, total	ug/L	MW-9	09/18/2019	ND	4.0000		
Lead, total	ug/L	MW-9	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-9	09/15/2020	ND	4.0000		
Lead, total	ug/L	MW-9	03/08/2021	ND	4.0000		
Lead, total	ug/L	MW-9	09/28/2021	ND	4.0000		
Lead, total	ug/L	MW-9	03/08/2022	ND	4.0000		
Lead, total	ug/L	MW-9	08/30/2022	ND	4.0000		
Lead, total	ug/L	MW-9	03/07/2023	ND	4.0000		
Nickel, total	ug/L	MW-17	10/16/2014		9.9000		
Nickel, total	ug/L	MW-17	04/04/2015		7.8000		
Nickel, total	ug/L	MW-17	10/01/2015		13.7000		
Nickel, total	ug/L	MW-17	04/04/2016		4.7000		
Nickel, total	ug/L	MW-17	09/20/2016	ND	4.0000		
Nickel, total	ug/L	MW-17	04/24/2017		6.3000		
Nickel, total	ug/L	MW-17	10/09/2017		8.0000		
Nickel, total	ug/L	MW-17	03/21/2018	ND	20.0000	4.0000	**
Nickel, total	ug/L	MW-17	09/07/2018		7.2000		
Nickel, total	ug/L	MW-17	04/02/2019		15.9000		
Nickel, total	ug/L	MW-17	09/18/2019		10.9000		
Nickel, total	ug/L	MW-17	03/25/2020		8.2000		
Nickel, total	ug/L	MW-17	09/15/2020		10.7000		
Nickel, total	ug/L	MW-17	03/08/2021		12.0000		
Nickel, total	ug/L	MW-17	09/28/2021		16.7000		
Nickel, total	ug/L	MW-17	03/08/2022		6.4000		
Nickel, total	ug/L	MW-17	08/30/2022		6.1000		
Nickel, total	ug/L	MW-17	03/07/2023		9.1000		
Nickel, total	ug/L	MW-18	10/16/2014		35.4000		*
Nickel, total	ug/L	MW-18	04/04/2015		67.7000		*
Nickel, total	ug/L	MW-18	10/01/2015		12.7000		
Nickel, total	ug/L	MW-18	04/04/2016		16.0000		
Nickel, total	ug/L	MW-18	09/20/2016		25.3000		

* - Outlier for that well and constituent.
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 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Nickel, total	ug/L	MW-18	04/24/2017		11.9000		
Nickel, total	ug/L	MW-18	10/09/2017		10.8000		
Nickel, total	ug/L	MW-18	03/21/2018	ND	20.0000	4.0000	**
Nickel, total	ug/L	MW-18	09/07/2018		9.2000		
Nickel, total	ug/L	MW-18	04/02/2019		7.2000		
Nickel, total	ug/L	MW-18	09/18/2019		10.7000		
Nickel, total	ug/L	MW-18	03/25/2020		6.6000		
Nickel, total	ug/L	MW-18	09/15/2020		29.7000		
Nickel, total	ug/L	MW-18	03/08/2021		12.4000		
Nickel, total	ug/L	MW-18	09/28/2021		8.5000		
Nickel, total	ug/L	MW-18	03/08/2022		7.2000		
Nickel, total	ug/L	MW-18	08/30/2022		16.9000		
Nickel, total	ug/L	MW-18	03/07/2023		19.8000		
Nickel, total	ug/L	MW-19A	10/16/2014		4.6000		
Nickel, total	ug/L	MW-19A	04/04/2015		6.9000		
Nickel, total	ug/L	MW-19A	10/01/2015		5.2000		
Nickel, total	ug/L	MW-19A	04/04/2016		4.3000		
Nickel, total	ug/L	MW-19A	09/20/2016	ND	4.0000		
Nickel, total	ug/L	MW-19A	04/24/2017	ND	4.0000		
Nickel, total	ug/L	MW-19A	10/09/2017		5.2000		
Nickel, total	ug/L	MW-19A	03/21/2018	ND	20.0000	4.0000	**
Nickel, total	ug/L	MW-19A	09/07/2018		6.4000		
Nickel, total	ug/L	MW-19A	04/02/2019		7.7000		
Nickel, total	ug/L	MW-19A	09/18/2019		11.8000		
Nickel, total	ug/L	MW-19A	03/25/2020		10.5000		
Nickel, total	ug/L	MW-19A	09/15/2020		11.5000		
Nickel, total	ug/L	MW-19A	12/02/2020		10.5000		
Nickel, total	ug/L	MW-19A	03/08/2021		9.5000		
Nickel, total	ug/L	MW-19A	09/28/2021		8.0000		
Nickel, total	ug/L	MW-19A	03/08/2022		8.0000		
Nickel, total	ug/L	MW-19A	08/30/2022		10.4000		
Nickel, total	ug/L	MW-19A	03/07/2023		11.4000		
Nickel, total	ug/L	MW-2	04/04/2015		21.1000		
Nickel, total	ug/L	MW-2	10/01/2015		7.8000		
Nickel, total	ug/L	MW-2	04/04/2016		16.6000		
Nickel, total	ug/L	MW-2	04/24/2017	ND	4.0000		
Nickel, total	ug/L	MW-2	04/02/2019		8.8000		
Nickel, total	ug/L	MW-2	03/25/2020	ND	4.0000		
Nickel, total	ug/L	MW-24	10/16/2014		81.2000		*
Nickel, total	ug/L	MW-24	04/04/2015		25.1000		
Nickel, total	ug/L	MW-24	10/01/2015	ND	4.0000		
Nickel, total	ug/L	MW-24	04/04/2016		4.0000		
Nickel, total	ug/L	MW-24	09/20/2016	ND	4.0000		
Nickel, total	ug/L	MW-24	04/24/2017		4.3000		
Nickel, total	ug/L	MW-24	10/09/2017	ND	4.0000		
Nickel, total	ug/L	MW-24	03/21/2018	ND	20.0000	4.0000	**
Nickel, total	ug/L	MW-24	09/07/2018	ND	4.0000		
Nickel, total	ug/L	MW-24	04/02/2019	ND	4.0000		
Nickel, total	ug/L	MW-24	09/18/2019	ND	4.0000		
Nickel, total	ug/L	MW-24	03/25/2020	ND	4.0000		
Nickel, total	ug/L	MW-24	09/15/2020	ND	4.0000		
Nickel, total	ug/L	MW-24	03/08/2021	ND	4.0000		
Nickel, total	ug/L	MW-24	09/28/2021	ND	4.0000		
Nickel, total	ug/L	MW-24	03/08/2022	ND	4.0000		
Nickel, total	ug/L	MW-24	08/30/2022	ND	4.0000		
Nickel, total	ug/L	MW-24	03/07/2023	ND	4.0000		
Nickel, total	ug/L	MW-9	10/16/2014		12.4000		
Nickel, total	ug/L	MW-9	04/04/2015		11.8000		
Nickel, total	ug/L	MW-9	10/01/2015		8.6000		
Nickel, total	ug/L	MW-9	04/04/2016		11.2000		
Nickel, total	ug/L	MW-9	09/20/2016		8.2000		
Nickel, total	ug/L	MW-9	04/24/2017		10.9000		
Nickel, total	ug/L	MW-9	10/09/2017		11.0000		
Nickel, total	ug/L	MW-9	03/21/2018		10.9000		
Nickel, total	ug/L	MW-9	09/07/2018		10.6000		
Nickel, total	ug/L	MW-9	04/02/2019		11.0000		
Nickel, total	ug/L	MW-9	09/18/2019		11.6000		
Nickel, total	ug/L	MW-9	03/25/2020		11.0000		
Nickel, total	ug/L	MW-9	09/15/2020		11.2000		
Nickel, total	ug/L	MW-9	03/08/2021		10.1000		
Nickel, total	ug/L	MW-9	09/28/2021		9.5000		
Nickel, total	ug/L	MW-9	03/08/2022		10.6000		
Nickel, total	ug/L	MW-9	08/30/2022		9.8000		
Nickel, total	ug/L	MW-9	03/07/2023		10.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Selenium, total	ug/L	MW-17	10/16/2014	ND	4.0000		
Selenium, total	ug/L	MW-17	04/04/2015	ND	4.0000		
Selenium, total	ug/L	MW-17	10/01/2015	ND	4.0000		
Selenium, total	ug/L	MW-17	04/04/2016	ND	4.0000		
Selenium, total	ug/L	MW-17	09/20/2016	ND	4.0000		
Selenium, total	ug/L	MW-17	04/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-17	10/09/2017	ND	4.0000		
Selenium, total	ug/L	MW-17	03/21/2018	ND	4.0000		
Selenium, total	ug/L	MW-17	09/07/2018	ND	4.0000		
Selenium, total	ug/L	MW-17	04/02/2019	ND	4.0000		
Selenium, total	ug/L	MW-17	09/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-17	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-17	09/15/2020	ND	4.0000		
Selenium, total	ug/L	MW-17	03/08/2021	ND	4.0000		
Selenium, total	ug/L	MW-17	09/28/2021	ND	4.0000		
Selenium, total	ug/L	MW-17	03/08/2022	ND	4.0000		
Selenium, total	ug/L	MW-17	08/30/2022	ND	4.0000		
Selenium, total	ug/L	MW-17	03/07/2023	ND	4.0000		
Selenium, total	ug/L	MW-18	10/16/2014	ND	4.0000		
Selenium, total	ug/L	MW-18	04/04/2015	ND	4.0000		
Selenium, total	ug/L	MW-18	10/01/2015	ND	4.0000		
Selenium, total	ug/L	MW-18	04/04/2016	ND	4.0000		
Selenium, total	ug/L	MW-18	09/20/2016	ND	4.0000		
Selenium, total	ug/L	MW-18	04/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-18	10/09/2017	ND	4.0000		
Selenium, total	ug/L	MW-18	03/21/2018	ND	4.0000		
Selenium, total	ug/L	MW-18	09/07/2018	ND	4.0000		
Selenium, total	ug/L	MW-18	04/02/2019	ND	4.0000		
Selenium, total	ug/L	MW-18	09/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-18	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-18	09/15/2020	ND	4.0000		
Selenium, total	ug/L	MW-18	03/08/2021	ND	4.0000		
Selenium, total	ug/L	MW-18	09/28/2021	ND	4.0000		
Selenium, total	ug/L	MW-18	03/08/2022	ND	4.0000		
Selenium, total	ug/L	MW-18	08/30/2022	ND	4.0000		
Selenium, total	ug/L	MW-18	03/07/2023	ND	4.0000		
Selenium, total	ug/L	MW-19A	10/16/2014	ND	4.0000		
Selenium, total	ug/L	MW-19A	04/04/2015	ND	4.0000		
Selenium, total	ug/L	MW-19A	10/01/2015	ND	4.0000		
Selenium, total	ug/L	MW-19A	04/04/2016	ND	4.0000		
Selenium, total	ug/L	MW-19A	09/20/2016	ND	4.0000		
Selenium, total	ug/L	MW-19A	04/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-19A	10/09/2017	ND	4.0000		
Selenium, total	ug/L	MW-19A	03/21/2018	ND	4.0000		
Selenium, total	ug/L	MW-19A	09/07/2018	ND	4.0000		
Selenium, total	ug/L	MW-19A	04/02/2019	ND	4.0000		
Selenium, total	ug/L	MW-19A	09/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-19A	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-19A	09/15/2020	ND	4.0000		
Selenium, total	ug/L	MW-19A	03/08/2021	ND	4.0000		
Selenium, total	ug/L	MW-19A	09/28/2021	ND	4.0000		
Selenium, total	ug/L	MW-19A	03/08/2022	ND	4.0000		
Selenium, total	ug/L	MW-19A	08/30/2022	ND	4.0000		
Selenium, total	ug/L	MW-19A	03/07/2023	ND	4.0000		
Selenium, total	ug/L	MW-2	04/04/2015	ND	4.0000		
Selenium, total	ug/L	MW-2	10/01/2015	ND	4.0000		
Selenium, total	ug/L	MW-2	04/04/2016	ND	4.0000		
Selenium, total	ug/L	MW-2	04/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-2	04/02/2019	ND	4.0000		
Selenium, total	ug/L	MW-2	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-24	10/16/2014		16.4000		*
Selenium, total	ug/L	MW-24	04/04/2015	ND	4.0000		
Selenium, total	ug/L	MW-24	10/01/2015	ND	4.0000		
Selenium, total	ug/L	MW-24	04/04/2016	ND	4.0000		
Selenium, total	ug/L	MW-24	09/20/2016	ND	4.0000		
Selenium, total	ug/L	MW-24	04/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-24	10/09/2017	ND	4.0000		
Selenium, total	ug/L	MW-24	03/21/2018	ND	4.0000		
Selenium, total	ug/L	MW-24	09/07/2018	ND	4.0000		
Selenium, total	ug/L	MW-24	04/02/2019	ND	4.0000		
Selenium, total	ug/L	MW-24	09/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-24	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-24	09/15/2020	ND	4.0000		
Selenium, total	ug/L	MW-24	03/08/2021	ND	4.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Selenium, total	ug/L	MW-24	09/28/2021	ND	4.0000		
Selenium, total	ug/L	MW-24	03/08/2022	ND	4.0000		
Selenium, total	ug/L	MW-24	08/30/2022	ND	4.0000		
Selenium, total	ug/L	MW-24	03/07/2023	ND	4.0000		
Selenium, total	ug/L	MW-9	10/16/2014	ND	4.0000		
Selenium, total	ug/L	MW-9	04/04/2015	ND	4.0000		
Selenium, total	ug/L	MW-9	10/01/2015	ND	4.0000		
Selenium, total	ug/L	MW-9	04/04/2016	ND	4.0000		
Selenium, total	ug/L	MW-9	09/20/2016	ND	4.0000		
Selenium, total	ug/L	MW-9	04/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-9	10/09/2017	ND	4.0000		
Selenium, total	ug/L	MW-9	03/21/2018	ND	4.0000		
Selenium, total	ug/L	MW-9	09/07/2018	ND	4.0000		
Selenium, total	ug/L	MW-9	04/02/2019	ND	4.0000		
Selenium, total	ug/L	MW-9	09/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-9	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-9	09/15/2020	ND	4.0000		
Selenium, total	ug/L	MW-9	03/08/2021	ND	4.0000		
Selenium, total	ug/L	MW-9	09/28/2021	ND	4.0000		
Selenium, total	ug/L	MW-9	03/08/2022	ND	4.0000		
Selenium, total	ug/L	MW-9	08/30/2022	ND	4.0000		
Selenium, total	ug/L	MW-9	03/07/2023	ND	4.0000		
Silver, total	ug/L	MW-17	10/16/2014	ND	4.0000		
Silver, total	ug/L	MW-17	04/04/2015	ND	4.0000		
Silver, total	ug/L	MW-17	10/01/2015	ND	4.0000		
Silver, total	ug/L	MW-17	04/04/2016	ND	4.0000		
Silver, total	ug/L	MW-17	09/20/2016	ND	4.0000		
Silver, total	ug/L	MW-17	04/24/2017	ND	4.0000		
Silver, total	ug/L	MW-17	10/09/2017	ND	4.0000		
Silver, total	ug/L	MW-17	03/21/2018	ND	4.0000		
Silver, total	ug/L	MW-17	09/07/2018	ND	4.0000		
Silver, total	ug/L	MW-17	04/02/2019	ND	4.0000		
Silver, total	ug/L	MW-17	09/18/2019	ND	4.0000		
Silver, total	ug/L	MW-17	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-17	09/15/2020	ND	4.0000		
Silver, total	ug/L	MW-17	03/08/2021	ND	4.0000		
Silver, total	ug/L	MW-17	09/28/2021	ND	4.0000		
Silver, total	ug/L	MW-17	03/08/2022	ND	4.0000		
Silver, total	ug/L	MW-17	08/30/2022	ND	4.0000		
Silver, total	ug/L	MW-17	03/07/2023	ND	4.0000		
Silver, total	ug/L	MW-18	10/16/2014	ND	4.0000		
Silver, total	ug/L	MW-18	04/04/2015	ND	4.0000		
Silver, total	ug/L	MW-18	10/01/2015	ND	4.0000		
Silver, total	ug/L	MW-18	04/04/2016	ND	4.0000		
Silver, total	ug/L	MW-18	09/20/2016	ND	4.0000		
Silver, total	ug/L	MW-18	04/24/2017	ND	4.0000		
Silver, total	ug/L	MW-18	10/09/2017	ND	4.0000		
Silver, total	ug/L	MW-18	03/21/2018	ND	4.0000		
Silver, total	ug/L	MW-18	09/07/2018	ND	4.0000		
Silver, total	ug/L	MW-18	04/02/2019	ND	4.0000		
Silver, total	ug/L	MW-18	09/18/2019	ND	4.0000		
Silver, total	ug/L	MW-18	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-18	09/15/2020	ND	4.0000		
Silver, total	ug/L	MW-18	03/08/2021	ND	4.0000		
Silver, total	ug/L	MW-18	09/28/2021	ND	4.0000		
Silver, total	ug/L	MW-18	03/08/2022	ND	4.0000		
Silver, total	ug/L	MW-18	08/30/2022	ND	4.0000		
Silver, total	ug/L	MW-18	03/07/2023	ND	4.0000		
Silver, total	ug/L	MW-19A	10/16/2014	ND	4.0000		
Silver, total	ug/L	MW-19A	04/04/2015	ND	4.0000		
Silver, total	ug/L	MW-19A	10/01/2015	ND	4.0000		
Silver, total	ug/L	MW-19A	04/04/2016	ND	4.0000		
Silver, total	ug/L	MW-19A	09/20/2016	ND	4.0000		
Silver, total	ug/L	MW-19A	04/24/2017	ND	4.0000		
Silver, total	ug/L	MW-19A	10/09/2017	ND	4.0000		
Silver, total	ug/L	MW-19A	03/21/2018	ND	4.0000		
Silver, total	ug/L	MW-19A	09/07/2018	ND	4.0000		
Silver, total	ug/L	MW-19A	04/02/2019	ND	4.0000		
Silver, total	ug/L	MW-19A	09/18/2019	ND	4.0000		
Silver, total	ug/L	MW-19A	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-19A	09/15/2020	ND	4.0000		
Silver, total	ug/L	MW-19A	03/08/2021	ND	4.0000		
Silver, total	ug/L	MW-19A	09/28/2021	ND	4.0000		
Silver, total	ug/L	MW-19A	03/08/2022	ND	4.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Silver, total	ug/L	MW-19A	08/30/2022	ND	4.0000		
Silver, total	ug/L	MW-19A	03/07/2023	ND	4.0000		
Silver, total	ug/L	MW-2	04/04/2015	ND	4.0000		
Silver, total	ug/L	MW-2	10/01/2015	ND	4.0000		
Silver, total	ug/L	MW-2	04/04/2016	ND	4.0000		
Silver, total	ug/L	MW-2	04/24/2017	ND	4.0000		
Silver, total	ug/L	MW-2	04/02/2019	ND	4.0000		
Silver, total	ug/L	MW-2	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-24	10/16/2014	ND	4.0000		
Silver, total	ug/L	MW-24	04/04/2015	ND	4.0000		
Silver, total	ug/L	MW-24	10/01/2015	ND	4.0000		
Silver, total	ug/L	MW-24	04/04/2016	ND	4.0000		
Silver, total	ug/L	MW-24	09/20/2016	ND	4.0000		
Silver, total	ug/L	MW-24	04/24/2017	ND	4.0000		
Silver, total	ug/L	MW-24	10/09/2017	ND	4.0000		
Silver, total	ug/L	MW-24	03/21/2018	ND	4.0000		
Silver, total	ug/L	MW-24	09/07/2018	ND	4.0000		
Silver, total	ug/L	MW-24	04/02/2019	ND	4.0000		
Silver, total	ug/L	MW-24	09/18/2019	ND	4.0000		
Silver, total	ug/L	MW-24	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-24	09/15/2020	ND	4.0000		
Silver, total	ug/L	MW-24	03/08/2021	ND	4.0000		
Silver, total	ug/L	MW-24	09/28/2021	ND	4.0000		
Silver, total	ug/L	MW-24	03/08/2022	ND	4.0000		
Silver, total	ug/L	MW-24	08/30/2022	ND	4.0000		
Silver, total	ug/L	MW-24	03/07/2023	ND	4.0000		
Silver, total	ug/L	MW-9	10/16/2014	ND	4.0000		
Silver, total	ug/L	MW-9	04/04/2015	ND	4.0000		
Silver, total	ug/L	MW-9	10/01/2015	ND	4.0000		
Silver, total	ug/L	MW-9	04/04/2016	ND	4.0000		
Silver, total	ug/L	MW-9	09/20/2016	ND	4.0000		
Silver, total	ug/L	MW-9	04/24/2017	ND	4.0000		
Silver, total	ug/L	MW-9	10/09/2017	ND	4.0000		
Silver, total	ug/L	MW-9	03/21/2018	ND	4.0000		
Silver, total	ug/L	MW-9	09/07/2018	ND	4.0000		
Silver, total	ug/L	MW-9	04/02/2019	ND	4.0000		
Silver, total	ug/L	MW-9	09/18/2019	ND	4.0000		
Silver, total	ug/L	MW-9	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-9	09/15/2020	ND	4.0000		
Silver, total	ug/L	MW-9	03/08/2021	ND	4.0000		
Silver, total	ug/L	MW-9	09/28/2021	ND	4.0000		
Silver, total	ug/L	MW-9	03/08/2022	ND	4.0000		
Silver, total	ug/L	MW-9	08/30/2022	ND	4.0000		
Silver, total	ug/L	MW-9	03/07/2023	ND	4.0000		
Thallium, total	ug/L	MW-17	10/16/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/04/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/01/2015	ND	1.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/04/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	09/20/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/09/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	03/21/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	09/07/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/02/2019	ND	2.0000		
Thallium, total	ug/L	MW-17	09/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-17	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-17	09/15/2020	ND	2.0000		
Thallium, total	ug/L	MW-17	03/08/2021	ND	2.0000		
Thallium, total	ug/L	MW-17	09/28/2021	ND	2.0000		
Thallium, total	ug/L	MW-17	03/08/2022	ND	2.0000		
Thallium, total	ug/L	MW-17	08/30/2022	ND	2.0000		
Thallium, total	ug/L	MW-17	03/07/2023		2.3000		
Thallium, total	ug/L	MW-18	10/16/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	04/04/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	10/01/2015	ND	1.0000	2.0000	**
Thallium, total	ug/L	MW-18	04/04/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	09/20/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	04/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	10/09/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	03/21/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	09/07/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	04/02/2019	ND	2.0000		
Thallium, total	ug/L	MW-18	09/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-18	03/25/2020	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	
Thallium, total	ug/L	MW-18	09/15/2020	ND	2.0000		
Thallium, total	ug/L	MW-18	03/08/2021	ND	2.0000		
Thallium, total	ug/L	MW-18	09/28/2021	ND	2.0000		
Thallium, total	ug/L	MW-18	03/08/2022	ND	2.0000		
Thallium, total	ug/L	MW-18	08/30/2022	ND	2.0000		
Thallium, total	ug/L	MW-18	03/07/2023	ND	2.0000		
Thallium, total	ug/L	MW-19A	10/16/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	04/04/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	10/01/2015	ND	1.0000	2.0000	**
Thallium, total	ug/L	MW-19A	04/04/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	09/20/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	04/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	10/09/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	03/21/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	09/07/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	04/02/2019	ND	2.0000		
Thallium, total	ug/L	MW-19A	09/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-19A	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-19A	09/15/2020	ND	2.0000		
Thallium, total	ug/L	MW-19A	03/08/2021	ND	2.0000		
Thallium, total	ug/L	MW-19A	09/28/2021	ND	2.0000		
Thallium, total	ug/L	MW-19A	03/08/2022	ND	2.0000		
Thallium, total	ug/L	MW-19A	08/30/2022	ND	2.0000		
Thallium, total	ug/L	MW-19A	03/07/2023	ND	2.0000		
Thallium, total	ug/L	MW-2	04/04/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2	10/01/2015	ND	1.0000	2.0000	**
Thallium, total	ug/L	MW-2	04/04/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2	04/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2	04/02/2019	ND	2.0000		
Thallium, total	ug/L	MW-2	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-24	10/16/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	04/04/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	10/01/2015	ND	1.0000	2.0000	**
Thallium, total	ug/L	MW-24	04/04/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	09/20/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	04/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	10/09/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	03/21/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	09/07/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	04/02/2019	ND	2.0000		
Thallium, total	ug/L	MW-24	09/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-24	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-24	09/15/2020	ND	2.0000		
Thallium, total	ug/L	MW-24	03/08/2021	ND	2.0000		
Thallium, total	ug/L	MW-24	09/28/2021	ND	2.0000		
Thallium, total	ug/L	MW-24	03/08/2022	ND	2.0000		
Thallium, total	ug/L	MW-24	08/30/2022	ND	2.0000		
Thallium, total	ug/L	MW-24	03/07/2023	ND	2.0000		
Thallium, total	ug/L	MW-9	10/16/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	04/04/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	10/01/2015	ND	1.0000	2.0000	**
Thallium, total	ug/L	MW-9	04/04/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	09/20/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	04/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	10/09/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	03/21/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	09/07/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	04/02/2019	ND	2.0000		
Thallium, total	ug/L	MW-9	09/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-9	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-9	09/15/2020	ND	2.0000		
Thallium, total	ug/L	MW-9	03/08/2021	ND	2.0000		
Thallium, total	ug/L	MW-9	09/28/2021	ND	2.0000		
Thallium, total	ug/L	MW-9	03/08/2022	ND	2.0000		
Thallium, total	ug/L	MW-9	08/30/2022	ND	2.0000		
Thallium, total	ug/L	MW-9	03/07/2023	ND	2.0000		
Vanadium, total	ug/L	MW-17	10/16/2014	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/04/2015	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/01/2015	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/04/2016	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/20/2016	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/09/2017	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/21/2018	ND	20.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Vanadium, total	ug/L	MW-17	09/07/2018	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/02/2019	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/15/2020	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/08/2021	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/28/2021	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/08/2022	ND	20.0000		
Vanadium, total	ug/L	MW-17	08/30/2022	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/07/2023	ND	20.0000		
Vanadium, total	ug/L	MW-18	10/16/2014	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/04/2015		31.6000		
Vanadium, total	ug/L	MW-18	10/01/2015	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/04/2016	ND	20.0000		
Vanadium, total	ug/L	MW-18	09/20/2016	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-18	10/09/2017	ND	20.0000		
Vanadium, total	ug/L	MW-18	03/21/2018	ND	20.0000		
Vanadium, total	ug/L	MW-18	09/07/2018	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/02/2019	ND	20.0000		
Vanadium, total	ug/L	MW-18	09/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-18	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-18	09/15/2020	ND	20.0000		
Vanadium, total	ug/L	MW-18	03/08/2021	ND	20.0000		
Vanadium, total	ug/L	MW-18	09/28/2021	ND	20.0000		
Vanadium, total	ug/L	MW-18	03/08/2022	ND	20.0000		
Vanadium, total	ug/L	MW-18	08/30/2022	ND	20.0000		
Vanadium, total	ug/L	MW-18	03/07/2023	ND	20.0000		
Vanadium, total	ug/L	MW-19A	10/16/2014	ND	20.0000		
Vanadium, total	ug/L	MW-19A	04/04/2015	ND	20.0000		
Vanadium, total	ug/L	MW-19A	10/01/2015	ND	20.0000		
Vanadium, total	ug/L	MW-19A	04/04/2016	ND	20.0000		
Vanadium, total	ug/L	MW-19A	09/20/2016	ND	20.0000		
Vanadium, total	ug/L	MW-19A	04/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-19A	10/09/2017	ND	20.0000		
Vanadium, total	ug/L	MW-19A	03/21/2018	ND	20.0000		
Vanadium, total	ug/L	MW-19A	09/07/2018	ND	20.0000		
Vanadium, total	ug/L	MW-19A	04/02/2019	ND	20.0000		
Vanadium, total	ug/L	MW-19A	09/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-19A	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-19A	09/15/2020	ND	20.0000		
Vanadium, total	ug/L	MW-19A	03/08/2021	ND	20.0000		
Vanadium, total	ug/L	MW-19A	09/28/2021	ND	20.0000		
Vanadium, total	ug/L	MW-19A	03/08/2022	ND	20.0000		
Vanadium, total	ug/L	MW-19A	08/30/2022	ND	20.0000		
Vanadium, total	ug/L	MW-19A	03/07/2023	ND	20.0000		
Vanadium, total	ug/L	MW-2	04/04/2015	ND	20.0000		
Vanadium, total	ug/L	MW-2	10/01/2015	ND	20.0000		
Vanadium, total	ug/L	MW-2	04/04/2016	ND	20.0000		
Vanadium, total	ug/L	MW-2	04/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-2	04/02/2019	ND	20.0000		
Vanadium, total	ug/L	MW-2	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-24	10/16/2014		72.3000		*
Vanadium, total	ug/L	MW-24	04/04/2015	ND	20.0000		
Vanadium, total	ug/L	MW-24	10/01/2015	ND	20.0000		
Vanadium, total	ug/L	MW-24	04/04/2016	ND	20.0000		
Vanadium, total	ug/L	MW-24	09/20/2016	ND	20.0000		
Vanadium, total	ug/L	MW-24	04/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-24	10/09/2017	ND	20.0000		
Vanadium, total	ug/L	MW-24	03/21/2018	ND	20.0000		
Vanadium, total	ug/L	MW-24	09/07/2018	ND	20.0000		
Vanadium, total	ug/L	MW-24	04/02/2019	ND	20.0000		
Vanadium, total	ug/L	MW-24	09/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-24	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-24	09/15/2020	ND	20.0000		
Vanadium, total	ug/L	MW-24	03/08/2021	ND	20.0000		
Vanadium, total	ug/L	MW-24	09/28/2021	ND	20.0000		
Vanadium, total	ug/L	MW-24	03/08/2022	ND	20.0000		
Vanadium, total	ug/L	MW-24	08/30/2022	ND	20.0000		
Vanadium, total	ug/L	MW-24	03/07/2023	ND	20.0000		
Vanadium, total	ug/L	MW-9	10/16/2014	ND	20.0000		
Vanadium, total	ug/L	MW-9	04/04/2015	ND	20.0000		
Vanadium, total	ug/L	MW-9	10/01/2015	ND	20.0000		
Vanadium, total	ug/L	MW-9	04/04/2016	ND	20.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Vanadium, total	ug/L	MW-9	09/20/2016	ND	20.0000		
Vanadium, total	ug/L	MW-9	04/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-9	10/09/2017	ND	20.0000		
Vanadium, total	ug/L	MW-9	03/21/2018	ND	20.0000		
Vanadium, total	ug/L	MW-9	09/07/2018	ND	20.0000		
Vanadium, total	ug/L	MW-9	04/02/2019	ND	20.0000		
Vanadium, total	ug/L	MW-9	09/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-9	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-9	09/15/2020	ND	20.0000		
Vanadium, total	ug/L	MW-9	03/08/2021	ND	20.0000		
Vanadium, total	ug/L	MW-9	09/28/2021	ND	20.0000		
Vanadium, total	ug/L	MW-9	03/08/2022	ND	20.0000		
Vanadium, total	ug/L	MW-9	08/30/2022	ND	20.0000		
Vanadium, total	ug/L	MW-9	03/07/2023	ND	20.0000		
Zinc, total	ug/L	MW-17	10/16/2014	ND	20.0000		
Zinc, total	ug/L	MW-17	04/04/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	10/01/2015		10.9000		
Zinc, total	ug/L	MW-17	04/04/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	09/20/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	04/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	10/09/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	03/21/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	09/07/2018		67.4000		
Zinc, total	ug/L	MW-17	04/02/2019		33.3000		
Zinc, total	ug/L	MW-17	09/18/2019		61.5000		
Zinc, total	ug/L	MW-17	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-17	09/15/2020	ND	20.0000		
Zinc, total	ug/L	MW-17	03/08/2021	ND	20.0000		
Zinc, total	ug/L	MW-17	09/28/2021	ND	20.0000		
Zinc, total	ug/L	MW-17	03/08/2022	ND	20.0000		
Zinc, total	ug/L	MW-17	08/30/2022	ND	20.0000		
Zinc, total	ug/L	MW-17	03/07/2023	ND	20.0000		
Zinc, total	ug/L	MW-18	10/16/2014		107.0000		
Zinc, total	ug/L	MW-18	04/04/2015		267.0000		
Zinc, total	ug/L	MW-18	10/01/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	04/04/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	09/20/2016		56.2000		
Zinc, total	ug/L	MW-18	04/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	10/09/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	03/21/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	09/07/2018		42.5000		
Zinc, total	ug/L	MW-18	04/02/2019		29.3000		
Zinc, total	ug/L	MW-18	09/18/2019		42.8000		
Zinc, total	ug/L	MW-18	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-18	09/15/2020	ND	20.0000		
Zinc, total	ug/L	MW-18	03/08/2021	ND	20.0000		
Zinc, total	ug/L	MW-18	09/28/2021	ND	20.0000		
Zinc, total	ug/L	MW-18	03/08/2022	ND	20.0000		
Zinc, total	ug/L	MW-18	08/30/2022	ND	20.0000		
Zinc, total	ug/L	MW-18	03/07/2023	ND	20.0000		
Zinc, total	ug/L	MW-19A	10/16/2014	ND	20.0000		
Zinc, total	ug/L	MW-19A	04/04/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-19A	10/01/2015		11.2000		
Zinc, total	ug/L	MW-19A	04/04/2016		15.2000		
Zinc, total	ug/L	MW-19A	09/20/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-19A	04/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-19A	10/09/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-19A	03/21/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-19A	09/07/2018		40.8000		
Zinc, total	ug/L	MW-19A	04/02/2019		35.8000		
Zinc, total	ug/L	MW-19A	09/18/2019		29.9000		
Zinc, total	ug/L	MW-19A	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-19A	09/15/2020	ND	20.0000		
Zinc, total	ug/L	MW-19A	03/08/2021	ND	20.0000		
Zinc, total	ug/L	MW-19A	09/28/2021	ND	20.0000		
Zinc, total	ug/L	MW-19A	03/08/2022	ND	20.0000		
Zinc, total	ug/L	MW-19A	08/30/2022	ND	20.0000		
Zinc, total	ug/L	MW-19A	03/07/2023	ND	20.0000		
Zinc, total	ug/L	MW-2	04/04/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-2	10/01/2015		9.1000		
Zinc, total	ug/L	MW-2	04/04/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-2	04/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-2	04/02/2019	ND	20.0000		
Zinc, total	ug/L	MW-2	03/25/2020	ND	20.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Zinc, total	ug/L	MW-24	10/16/2014		117.0000		
Zinc, total	ug/L	MW-24	04/04/2015		16.2000		
Zinc, total	ug/L	MW-24	10/01/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-24	04/04/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-24	09/20/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-24	04/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-24	10/09/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-24	03/21/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-24	09/07/2018		106.0000		
Zinc, total	ug/L	MW-24	04/02/2019		39.2000		
Zinc, total	ug/L	MW-24	09/18/2019		56.9000		
Zinc, total	ug/L	MW-24	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-24	09/15/2020	ND	20.0000		
Zinc, total	ug/L	MW-24	03/08/2021	ND	20.0000		
Zinc, total	ug/L	MW-24	09/28/2021	ND	20.0000		
Zinc, total	ug/L	MW-24	03/08/2022	ND	20.0000		
Zinc, total	ug/L	MW-24	08/30/2022	ND	20.0000		
Zinc, total	ug/L	MW-24	03/07/2023	ND	20.0000		
Zinc, total	ug/L	MW-9	10/16/2014	ND	20.0000		
Zinc, total	ug/L	MW-9	04/04/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-9	10/01/2015		9.8000		
Zinc, total	ug/L	MW-9	04/04/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-9	09/20/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-9	04/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-9	10/09/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-9	03/21/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-9	09/07/2018		73.9000		
Zinc, total	ug/L	MW-9	04/02/2019	ND	20.0000		
Zinc, total	ug/L	MW-9	09/18/2019		27.7000		
Zinc, total	ug/L	MW-9	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-9	09/15/2020	ND	20.0000		
Zinc, total	ug/L	MW-9	03/08/2021	ND	20.0000		
Zinc, total	ug/L	MW-9	09/28/2021	ND	20.0000		
Zinc, total	ug/L	MW-9	03/08/2022	ND	20.0000		
Zinc, total	ug/L	MW-9	08/30/2022	ND	20.0000		
Zinc, total	ug/L	MW-9	03/07/2023	ND	20.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result	Pred. Limit
Antimony, total	ug/L	GWD-1	03/07/2023	ND	2.0000	2.0000
Antimony, total	ug/L	MW-12	03/07/2023	ND	2.0000	2.0000
Antimony, total	ug/L	MW-15R	03/07/2023	ND	2.0000	2.0000
Antimony, total	ug/L	MW-20R	03/07/2023	ND	2.0000	2.0000
Antimony, total	ug/L	MW-21	03/07/2023	ND	2.0000	2.0000
Antimony, total	ug/L	MW-22	03/07/2023	ND	2.0000	2.0000
Antimony, total	ug/L	MW-4	03/07/2023	ND	2.0000	2.0000
Antimony, total	ug/L	MW-5	03/07/2023	ND	2.0000	2.0000
Arsenic, total	ug/L	GWD-1	03/07/2023		5.3000	167.0000
Arsenic, total	ug/L	MW-12	03/07/2023		10.2000	167.0000
Arsenic, total	ug/L	MW-15R	03/07/2023		21.5000	167.0000
Arsenic, total	ug/L	MW-20R	03/07/2023		43.0000	167.0000
Arsenic, total	ug/L	MW-21	03/07/2023		30.5000	167.0000
Arsenic, total	ug/L	MW-22	03/07/2023		95.5000	167.0000
Arsenic, total	ug/L	MW-4	03/07/2023		50.8000	167.0000
Arsenic, total	ug/L	MW-5	03/07/2023		83.0000	167.0000
Barium, total	ug/L	GWD-1	03/07/2023		199.0000	1322.7166
Barium, total	ug/L	MW-12	03/07/2023		450.0000	1322.7166
Barium, total	ug/L	MW-15R	03/07/2023		393.0000	1322.7166
Barium, total	ug/L	MW-20R	03/07/2023		599.0000	1322.7166
Barium, total	ug/L	MW-21	03/07/2023		1420.0000	1322.7166
Barium, total	ug/L	MW-22	03/07/2023		367.0000	1322.7166
Barium, total	ug/L	MW-4	03/07/2023		890.0000	1322.7166
Barium, total	ug/L	MW-5	03/07/2023		460.0000	1322.7166
Beryllium, total	ug/L	GWD-1	03/07/2023	ND	4.0000	4.0000
Beryllium, total	ug/L	MW-12	03/07/2023	ND	4.0000	4.0000
Beryllium, total	ug/L	MW-15R	03/07/2023	ND	4.0000	4.0000
Beryllium, total	ug/L	MW-20R	03/07/2023	ND	4.0000	4.0000
Beryllium, total	ug/L	MW-21	03/07/2023	ND	4.0000	4.0000
Beryllium, total	ug/L	MW-22	03/07/2023	ND	4.0000	4.0000
Beryllium, total	ug/L	MW-4	03/07/2023	ND	4.0000	4.0000
Beryllium, total	ug/L	MW-5	03/07/2023	ND	4.0000	4.0000
Cadmium, total	ug/L	GWD-1	03/07/2023	ND	0.8000	2.4000
Cadmium, total	ug/L	MW-12	03/07/2023	ND	0.8000	2.4000
Cadmium, total	ug/L	MW-15R	03/07/2023	ND	0.8000	2.4000
Cadmium, total	ug/L	MW-20R	03/07/2023	ND	0.8000	2.4000
Cadmium, total	ug/L	MW-21	03/07/2023	ND	0.8000	2.4000
Cadmium, total	ug/L	MW-22	03/07/2023	ND	1.0000	2.4000
Cadmium, total	ug/L	MW-4	03/07/2023	ND	0.8000	2.4000
Cadmium, total	ug/L	MW-5	03/07/2023	ND	0.8000	2.4000
Chromium, total	ug/L	GWD-1	03/07/2023	ND	8.0000	11.6000
Chromium, total	ug/L	MW-12	03/07/2023	ND	8.0000	11.6000
Chromium, total	ug/L	MW-15R	03/07/2023	ND	8.0000	11.6000
Chromium, total	ug/L	MW-20R	03/07/2023	ND	8.0000	11.6000
Chromium, total	ug/L	MW-21	03/07/2023	ND	8.0000	11.6000
Chromium, total	ug/L	MW-22	03/07/2023	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	03/07/2023	ND	8.0000	11.6000
Chromium, total	ug/L	MW-5	03/07/2023	ND	8.0000	11.6000
Cobalt, total	ug/L	GWD-1	03/07/2023		0.6000	38.6532
Cobalt, total	ug/L	MW-12	03/07/2023		4.4000	38.6532
Cobalt, total	ug/L	MW-15R	03/07/2023		1.8000	38.6532
Cobalt, total	ug/L	MW-20R	03/07/2023		0.5000	38.6532
Cobalt, total	ug/L	MW-21	03/07/2023		0.9000	38.6532
Cobalt, total	ug/L	MW-22	03/07/2023		4.2000	38.6532
Cobalt, total	ug/L	MW-4	03/07/2023		1.6000	38.6532
Cobalt, total	ug/L	MW-5	03/07/2023		5.2000	38.6532
Copper, total	ug/L	GWD-1	03/07/2023	ND	4.0000	31.3000
Copper, total	ug/L	MW-12	03/07/2023	ND	4.0000	31.3000
Copper, total	ug/L	MW-15R	03/07/2023	ND	4.0000	31.3000
Copper, total	ug/L	MW-20R	03/07/2023	ND	4.0000	31.3000
Copper, total	ug/L	MW-21	03/07/2023	ND	4.0000	31.3000
Copper, total	ug/L	MW-22	03/07/2023	ND	4.0000	31.3000
Copper, total	ug/L	MW-4	03/07/2023	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	03/07/2023		9.2000	31.3000
Lead, total	ug/L	GWD-1	03/07/2023	ND	4.0000	13.6000
Lead, total	ug/L	MW-12	03/07/2023	ND	4.0000	13.6000
Lead, total	ug/L	MW-15R	03/07/2023	ND	4.0000	13.6000
Lead, total	ug/L	MW-20R	03/07/2023	ND	4.0000	13.6000
Lead, total	ug/L	MW-21	03/07/2023	ND	4.0000	13.6000
Lead, total	ug/L	MW-22	03/07/2023	ND	4.0000	13.6000
Lead, total	ug/L	MW-4	03/07/2023	ND	4.0000	13.6000
Lead, total	ug/L	MW-5	03/07/2023	ND	4.0000	13.6000

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result	Pred. Limit
Nickel, total	ug/L	GWD-1	03/07/2023	ND	4.0000	67.5410
Nickel, total	ug/L	MW-12	03/07/2023		8.2000	67.5410
Nickel, total	ug/L	MW-15R	03/07/2023	ND	4.0000	67.5410
Nickel, total	ug/L	MW-20R	03/07/2023	ND	4.0000	67.5410
Nickel, total	ug/L	MW-21	03/07/2023		6.8000	67.5410
Nickel, total	ug/L	MW-22	03/07/2023		7.7000	67.5410
Nickel, total	ug/L	MW-4	03/07/2023	ND	4.0000	67.5410
Nickel, total	ug/L	MW-5	03/07/2023		8.7000	67.5410
Selenium, total	ug/L	GWD-1	03/07/2023	ND	4.0000	4.0000
Selenium, total	ug/L	MW-12	03/07/2023	ND	4.0000	4.0000
Selenium, total	ug/L	MW-15R	03/07/2023	ND	4.0000	4.0000
Selenium, total	ug/L	MW-20R	03/07/2023	ND	4.0000	4.0000
Selenium, total	ug/L	MW-21	03/07/2023	ND	4.0000	4.0000
Selenium, total	ug/L	MW-22	03/07/2023	ND	4.0000	4.0000
Selenium, total	ug/L	MW-4	03/07/2023	ND	4.0000	4.0000
Selenium, total	ug/L	MW-5	03/07/2023	ND	4.0000	4.0000
Silver, total	ug/L	GWD-1	03/07/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-12	03/07/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-15R	03/07/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-20R	03/07/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-21	03/07/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-22	03/07/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-4	03/07/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-5	03/07/2023	ND	4.0000	4.0000
Thallium, total	ug/L	GWD-1	03/07/2023	ND	2.0000	2.3000
Thallium, total	ug/L	MW-12	03/07/2023	ND	2.0000	2.3000
Thallium, total	ug/L	MW-15R	03/07/2023	ND	2.0000	2.3000
Thallium, total	ug/L	MW-20R	03/07/2023	ND	2.0000	2.3000
Thallium, total	ug/L	MW-21	03/07/2023	ND	2.0000	2.3000
Thallium, total	ug/L	MW-22	03/07/2023	ND	2.0000	2.3000
Thallium, total	ug/L	MW-4	03/07/2023	ND	2.0000	2.3000
Thallium, total	ug/L	MW-5	03/07/2023	ND	2.0000	2.3000
Vanadium, total	ug/L	GWD-1	03/07/2023	ND	20.0000	31.6000
Vanadium, total	ug/L	MW-12	03/07/2023	ND	20.0000	31.6000
Vanadium, total	ug/L	MW-15R	03/07/2023	ND	20.0000	31.6000
Vanadium, total	ug/L	MW-20R	03/07/2023	ND	20.0000	31.6000
Vanadium, total	ug/L	MW-21	03/07/2023	ND	20.0000	31.6000
Vanadium, total	ug/L	MW-22	03/07/2023	ND	20.0000	31.6000
Vanadium, total	ug/L	MW-4	03/07/2023	ND	20.0000	31.6000
Vanadium, total	ug/L	MW-5	03/07/2023	ND	20.0000	31.6000
Zinc, total	ug/L	GWD-1	03/07/2023	ND	20.0000	267.0000
Zinc, total	ug/L	MW-12	03/07/2023	ND	20.0000	267.0000
Zinc, total	ug/L	MW-15R	03/07/2023	ND	20.0000	267.0000
Zinc, total	ug/L	MW-20R	03/07/2023	ND	20.0000	267.0000
Zinc, total	ug/L	MW-21	03/07/2023	ND	20.0000	267.0000
Zinc, total	ug/L	MW-22	03/07/2023	ND	20.0000	267.0000
Zinc, total	ug/L	MW-4	03/07/2023	ND	20.0000	267.0000
Zinc, total	ug/L	MW-5	03/07/2023	ND	20.0000	267.0000

* - 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	Upgradient			Downgradient		
	Detect	N	Proportion	Detect	N	Proportion
Antimony, total	0	96	0.000	2	256	0.008
Arsenic, total	43	95	0.453	211	259	0.815
Barium, total	96	96	1.000	257	257	1.000
Beryllium, total	0	96	0.000	1	256	0.004
Cadmium, total	16	95	0.168	29	256	0.113
Chromium, total	2	94	0.021	12	256	0.047
Cobalt, total	75	92	0.815	190	256	0.742
Copper, total	14	92	0.152	84	257	0.327
Lead, total	4	94	0.043	37	256	0.145
Nickel, total	72	94	0.766	189	258	0.733
Selenium, total	0	95	0.000	6	256	0.023
Silver, total	0	96	0.000	0	256	0.000
Thallium, total	2	96	0.021	3	256	0.012
Vanadium, total	1	95	0.011	18	256	0.070
Zinc, total	24	96	0.250	104	256	0.406

N = Total number of measurements in all wells.
Detect = Total number of detections in all wells.
Proportion = Detect/N.

Table 4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Antimony, total	0	96	0.000									nonpar
Arsenic, total	43	95	0.453	1.844	1.867					2.326	normal	nonpar
Barium, total	96	96	1.000	1.871	1.273					2.326	normal	normal
Beryllium, total	0	96	0.000									nonpar
Cadmium, total	16	95	0.168	0.626	0.870					2.326	normal	nonpar
Chromium, total	2	94	0.021									nonpar
Cobalt, total	75	92	0.815	3.780	0.557					2.326	lognor	lognor
Copper, total	14	92	0.152	1.035	0.667					2.326	normal	nonpar
Lead, total	4	94	0.043									nonpar
Nickel, total	72	94	0.766	2.509	1.115					2.326	lognor	lognor
Selenium, total	0	95	0.000									nonpar
Silver, total	0	96	0.000									nonpar
Thallium, total	2	96	0.021									nonpar
Vanadium, total	1	95	0.011									nonpar
Zinc, total	24	96	0.250	0.905	0.279					2.326	normal	nonpar

* - Distribution override for that constituent.
 Fit to distribution is confirmed if G <= critical value.
 Model type may not match distributional form when detection frequency < 50%.

Table 5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Antimony, total	ug/L	0	96					2.0000	nonpar	***	0.99
Arsenic, total	ug/L	43	95					167.0000	nonpar		0.99
Barium, total	ug/L	96	96	436.7365	372.4911	0.0100	2.3785	1322.7166	normal		
Beryllium, total	ug/L	0	96					4.0000	nonpar	***	0.99
Cadmium, total	ug/L	16	95					2.4000	nonpar		0.99
Chromium, total	ug/L	2	94					11.6000	nonpar		0.99
Cobalt, total	ug/L	75	92	1.1752	1.0414	0.0100	2.3809	38.6532	lognor		
Copper, total	ug/L	14	92					31.3000	nonpar		0.99
Lead, total	ug/L	4	94					13.6000	nonpar		0.99
Nickel, total	ug/L	72	94	1.7482	1.0357	0.0100	2.3797	67.5410	lognor		
Selenium, total	ug/L	0	95					4.0000	nonpar	***	0.99
Silver, total	ug/L	0	96					4.0000	nonpar	***	0.99
Thallium, total	ug/L	2	96					2.3000	nonpar		0.99
Vanadium, total	ug/L	1	95					31.6000	nonpar		0.99
Zinc, total	ug/L	24	96					267.0000	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
Cadmium, total	ug/L	MW-18	04/04/2015	3.9000		10/16/2014-03/07/2023	18	0.5643
Copper, total	ug/L	MW-9	04/04/2015	26.3000		10/16/2014-03/07/2023	19	0.5643
Copper, total	ug/L	MW-9	03/21/2018	18.0000		10/16/2014-03/07/2023	19	0.5643

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, total	ug/L	MW-5	04/23/2008	ND	29.0000	167.0000
Arsenic, total	ug/L	MW-5	06/23/2008		5.0000	167.0000
Arsenic, total	ug/L	MW-5	08/13/2008		21.0000	167.0000
Arsenic, total	ug/L	MW-5	10/02/2008		22.3000	167.0000
Arsenic, total	ug/L	MW-5	12/13/2008		33.5000	167.0000
Arsenic, total	ug/L	MW-5	03/04/2009		30.7000	167.0000
Arsenic, total	ug/L	MW-5	09/17/2009		25.8000	167.0000
Arsenic, total	ug/L	MW-5	11/06/2009		26.2000	167.0000
Arsenic, total	ug/L	MW-5	04/05/2010		29.5000	167.0000
Arsenic, total	ug/L	MW-5	10/08/2010		15.8000	167.0000
Arsenic, total	ug/L	MW-5	04/13/2011		16.6000	167.0000
Arsenic, total	ug/L	MW-5	09/22/2011		12.4000	167.0000
Arsenic, total	ug/L	MW-5	04/09/2012		14.4000	167.0000
Arsenic, total	ug/L	MW-5	09/05/2012		18.8000	167.0000
Arsenic, total	ug/L	MW-5	04/26/2013		8.7000	167.0000
Arsenic, total	ug/L	MW-5	09/26/2013		17.9000	167.0000
Arsenic, total	ug/L	MW-5	04/10/2014		16.1000	167.0000
Arsenic, total	ug/L	MW-5	10/16/2014		8.0000	167.0000
Arsenic, total	ug/L	MW-5	04/04/2015		4.3000	167.0000
Arsenic, total	ug/L	MW-5	10/01/2015		61.9000	167.0000
Arsenic, total	ug/L	MW-5	04/04/2016	11.9000	167.0000	
Arsenic, total	ug/L	MW-5	09/20/2016	12.6000	167.0000	
Arsenic, total	ug/L	MW-5	04/24/2017	17.4000	167.0000	
Arsenic, total	ug/L	MW-5	10/09/2017	22.4000	167.0000	
Arsenic, total	ug/L	MW-5	03/21/2018	ND	4.0000	167.0000
Arsenic, total	ug/L	MW-5	09/07/2018		10.1000	167.0000
Arsenic, total	ug/L	MW-5	04/02/2019		6.6000	167.0000
Arsenic, total	ug/L	MW-5	09/18/2019		18.7000	167.0000
Arsenic, total	ug/L	MW-5	03/25/2020		30.8000	167.0000
Arsenic, total	ug/L	MW-5	09/15/2020		41.9000	167.0000
Arsenic, total	ug/L	MW-5	03/08/2021		14.6000	167.0000
Arsenic, total	ug/L	MW-5	09/28/2021		76.7000	167.0000
Arsenic, total	ug/L	MW-5	03/08/2022		12.1000	167.0000
Arsenic, total	ug/L	MW-5	08/30/2022		412.0000 *	167.0000
Arsenic, total	ug/L	MW-5	03/07/2023	83.0000	167.0000	
Barium, total	ug/L	MW-21	11/06/2009		240.0000	1322.7166
Barium, total	ug/L	MW-21	04/05/2010		390.0000	1322.7166
Barium, total	ug/L	MW-21	05/24/2010		316.0000	1322.7166
Barium, total	ug/L	MW-21	08/16/2010		268.0000	1322.7166
Barium, total	ug/L	MW-21	10/08/2010		261.0000	1322.7166
Barium, total	ug/L	MW-21	04/14/2011		396.0000	1322.7166
Barium, total	ug/L	MW-21	09/21/2011		310.0000	1322.7166
Barium, total	ug/L	MW-21	04/09/2012		424.0000	1322.7166
Barium, total	ug/L	MW-21	09/05/2012		420.0000	1322.7166
Barium, total	ug/L	MW-21	04/26/2013		274.0000	1322.7166
Barium, total	ug/L	MW-21	09/26/2013		281.0000	1322.7166
Barium, total	ug/L	MW-21	04/10/2014		288.0000	1322.7166
Barium, total	ug/L	MW-21	10/16/2014		354.0000	1322.7166
Barium, total	ug/L	MW-21	04/04/2015		461.0000	1322.7166
Barium, total	ug/L	MW-21	10/01/2015		451.0000	1322.7166
Barium, total	ug/L	MW-21	04/04/2016		392.0000	1322.7166
Barium, total	ug/L	MW-21	09/20/2016		630.0000	1322.7166
Barium, total	ug/L	MW-21	04/24/2017		806.0000	1322.7166
Barium, total	ug/L	MW-21	10/09/2017		472.0000	1322.7166
Barium, total	ug/L	MW-21	03/21/2018		875.0000	1322.7166
Barium, total	ug/L	MW-21	09/07/2018		598.0000	1322.7166
Barium, total	ug/L	MW-21	04/02/2019		1420.0000 *	1322.7166
Barium, total	ug/L	MW-21	09/18/2019		307.0000	1322.7166
Barium, total	ug/L	MW-21	03/25/2020		1730.0000 *	1322.7166
Barium, total	ug/L	MW-21	09/15/2020		469.0000	1322.7166
Barium, total	ug/L	MW-21	03/08/2021		1020.0000	1322.7166
Barium, total	ug/L	MW-21	09/28/2021		498.0000	1322.7166
Barium, total	ug/L	MW-21	03/08/2022		803.0000	1322.7166
Barium, total	ug/L	MW-21	08/30/2022		450.0000	1322.7166
Barium, total	ug/L	MW-21	03/07/2023		1420.0000 *	1322.7166
Copper, total	ug/L	MW-5	04/23/2008	ND	5.0000	31.3000
Copper, total	ug/L	MW-5	06/23/2008	ND	5.0000	31.3000
Copper, total	ug/L	MW-5	08/13/2008		6.0000	31.3000
Copper, total	ug/L	MW-5	10/02/2008	ND	8.0000	31.3000
Copper, total	ug/L	MW-5	12/13/2008	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	03/04/2009		4.7000	31.3000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

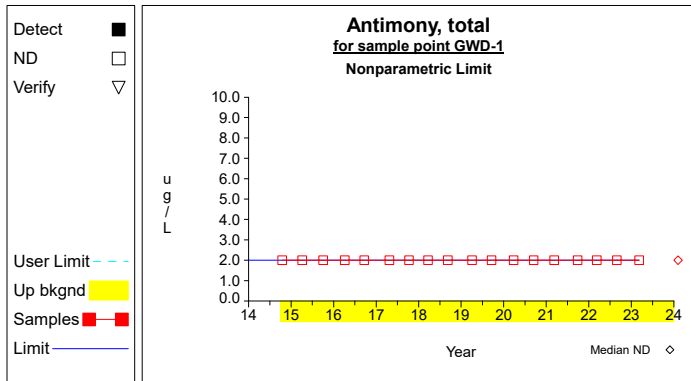
Table 8

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

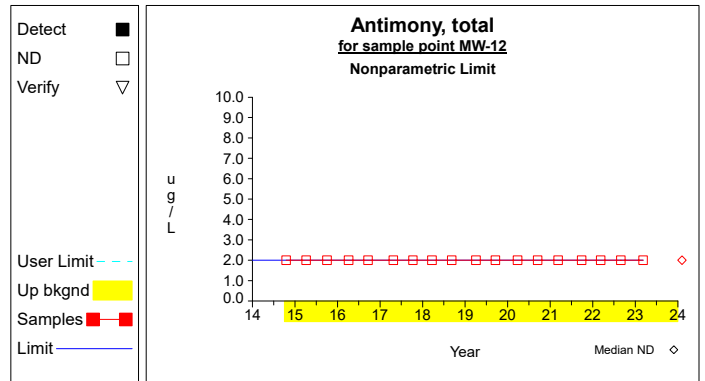
Constituent	Units	Well	Date		Result	Pred. Limit
Copper, total	ug/L	MW-5	09/17/2009		7.9000	31.3000
Copper, total	ug/L	MW-5	11/06/2009		11.4000	31.3000
Copper, total	ug/L	MW-5	04/05/2010		7.6000	31.3000
Copper, total	ug/L	MW-5	10/08/2010	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	04/13/2011		6.1000	31.3000
Copper, total	ug/L	MW-5	09/22/2011		5.4000	31.3000
Copper, total	ug/L	MW-5	04/09/2012	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	09/05/2012	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	04/26/2013		5.7000	31.3000
Copper, total	ug/L	MW-5	09/26/2013		10.0000	31.3000
Copper, total	ug/L	MW-5	04/10/2014	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	10/16/2014		4.0000	31.3000
Copper, total	ug/L	MW-5	04/04/2015	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	10/01/2015		4.2000	31.3000
Copper, total	ug/L	MW-5	04/04/2016	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	09/20/2016		7.7000	31.3000
Copper, total	ug/L	MW-5	04/24/2017	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	10/09/2017		4.7000	31.3000
Copper, total	ug/L	MW-5	03/21/2018	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	09/07/2018	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	04/02/2019	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	09/18/2019	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	03/25/2020	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	09/15/2020		4.4000	31.3000
Copper, total	ug/L	MW-5	03/08/2021	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	09/28/2021	ND	4.0000	31.3000
Copper, total	ug/L	MW-5	03/08/2022		5.0000	31.3000
Copper, total	ug/L	MW-5	08/30/2022		45.5000 *	31.3000
Copper, total	ug/L	MW-5	03/07/2023		9.2000	31.3000

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

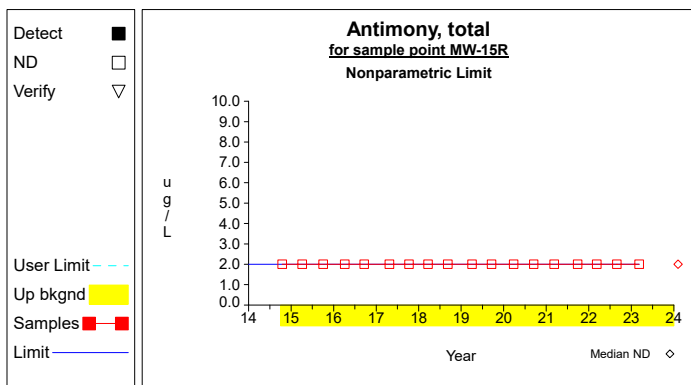
Up vs. Down Prediction Limits



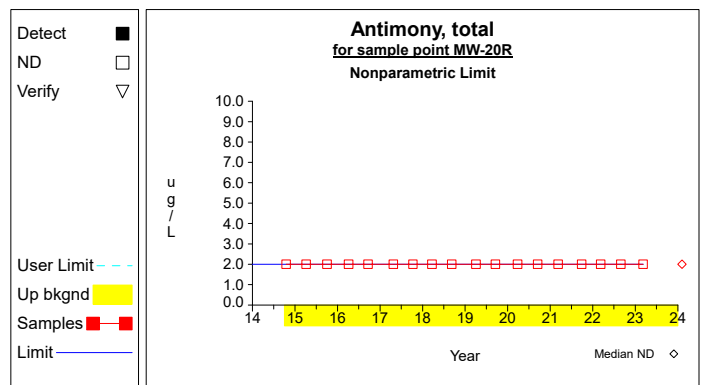
Graph 1



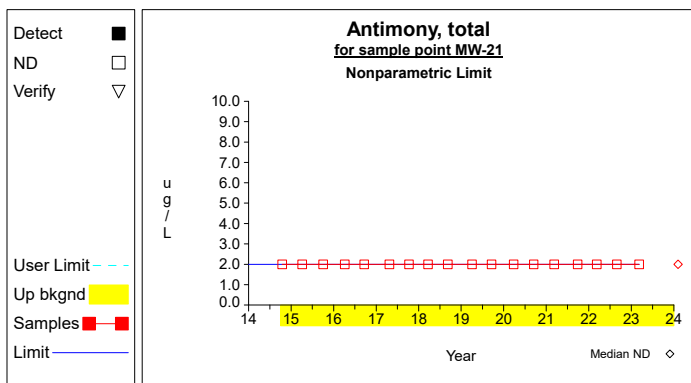
Graph 2



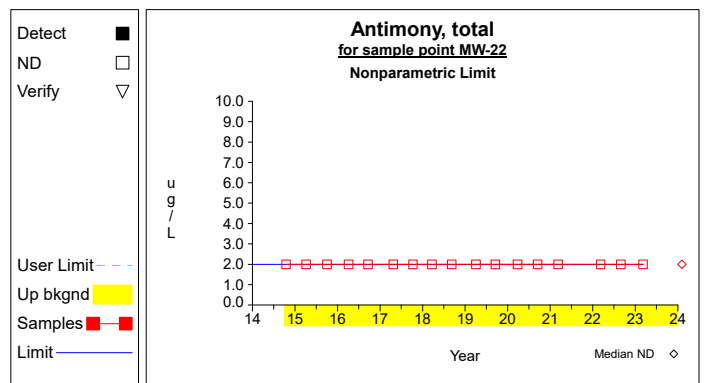
Graph 3



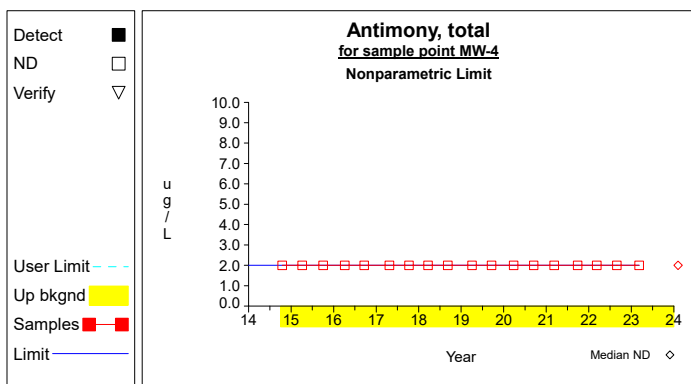
Graph 4



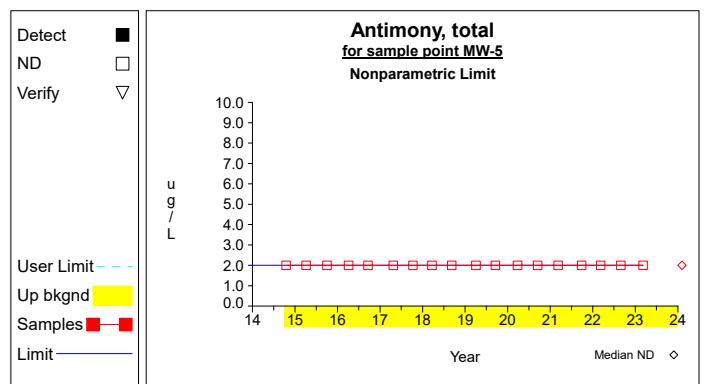
Graph 5



Graph 6

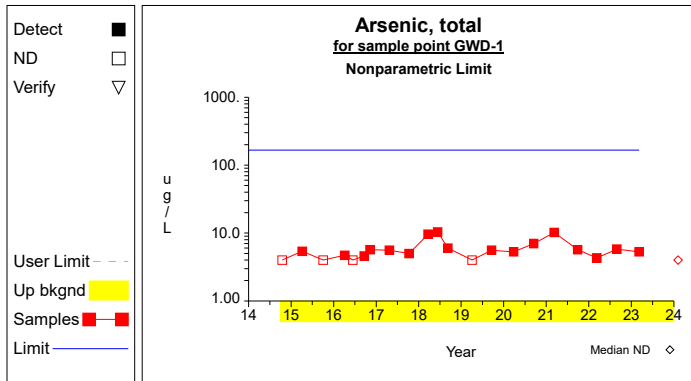


Graph 7

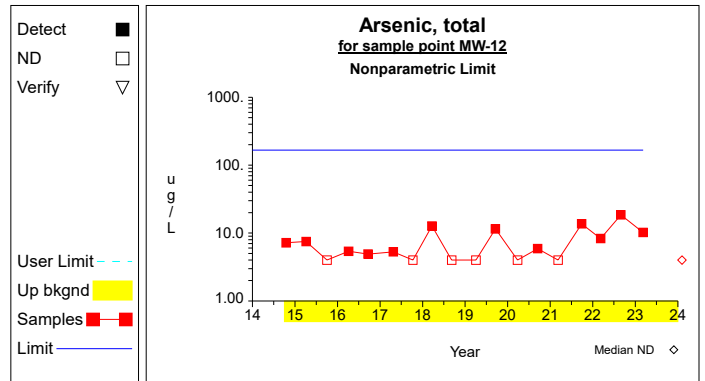


Graph 8

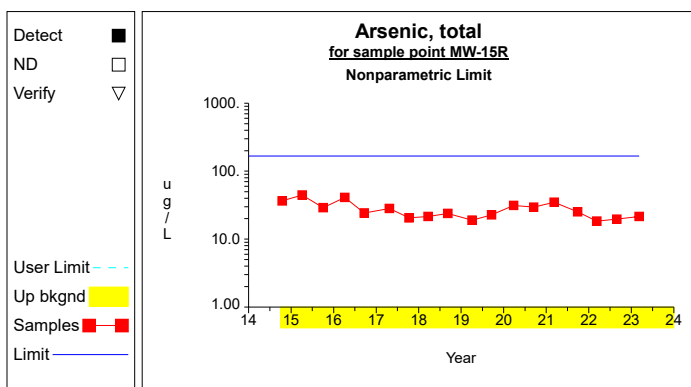
Up vs. Down Prediction Limits



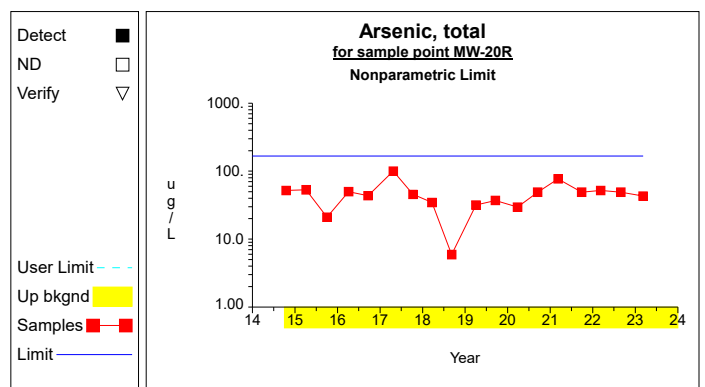
Graph 9



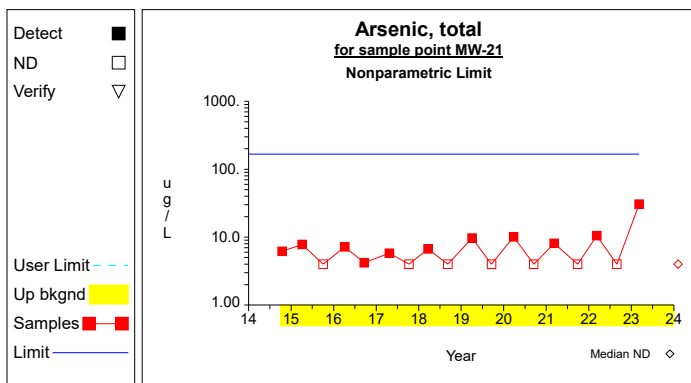
Graph 10



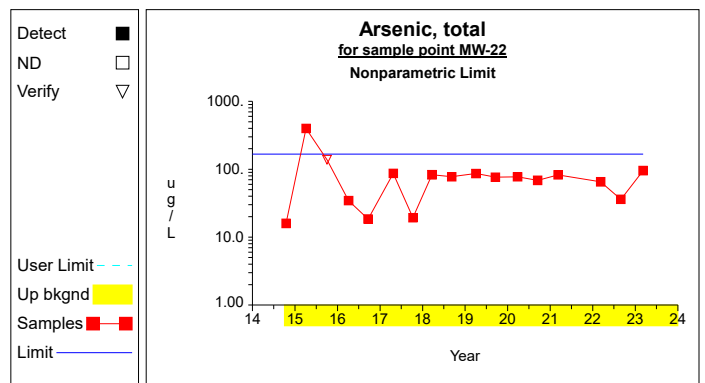
Graph 11



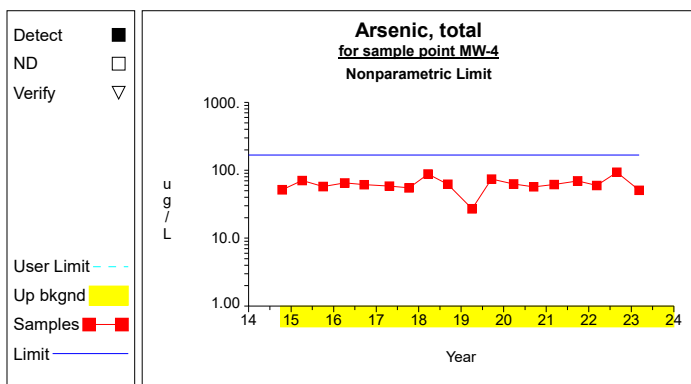
Graph 12



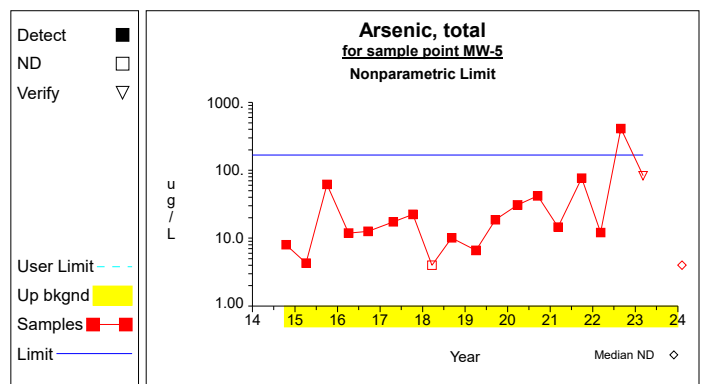
Graph 13



Graph 14

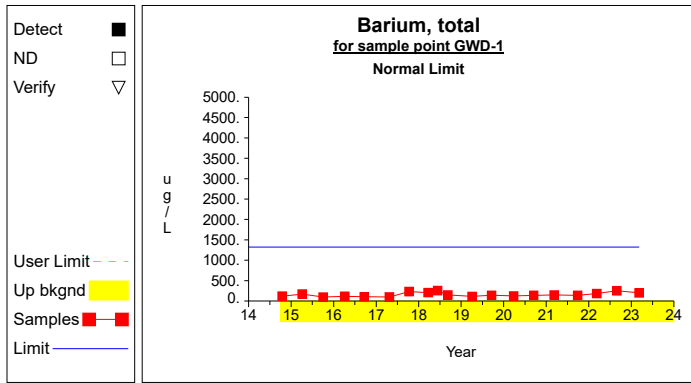


Graph 15

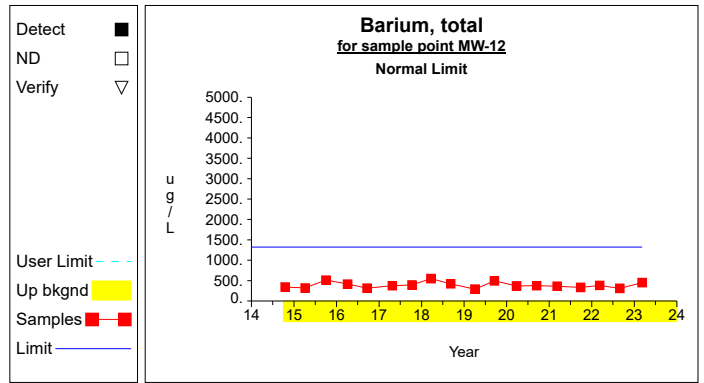


Graph 16

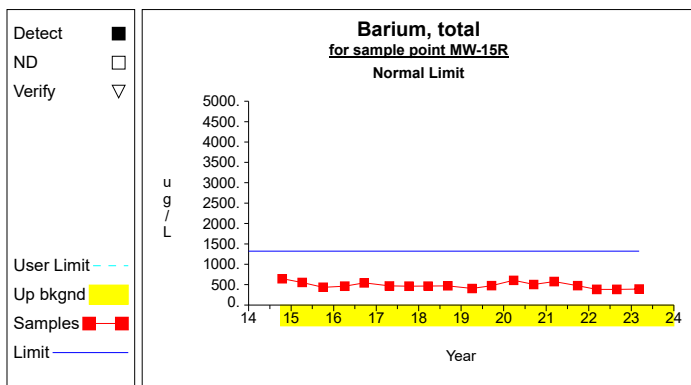
Up vs. Down Prediction Limits



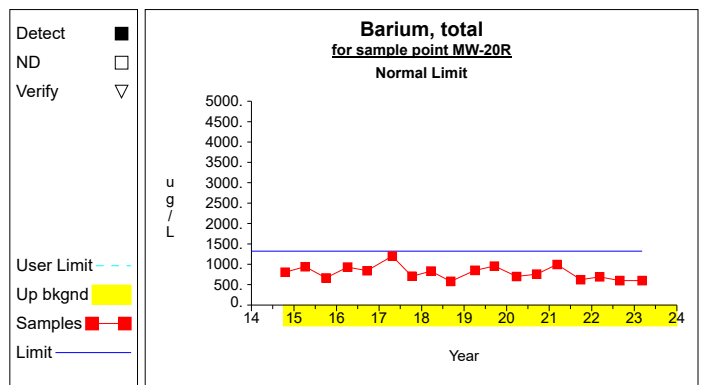
Graph 17



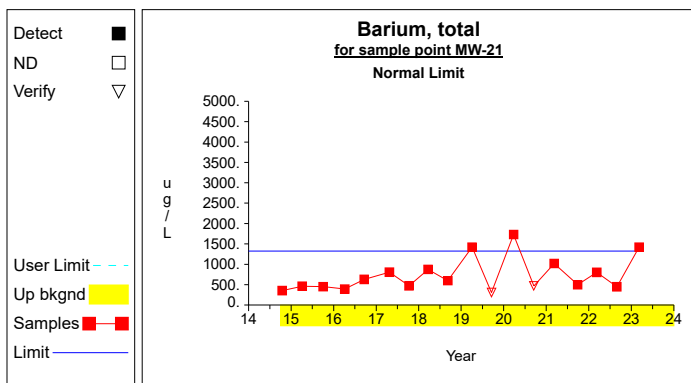
Graph 18



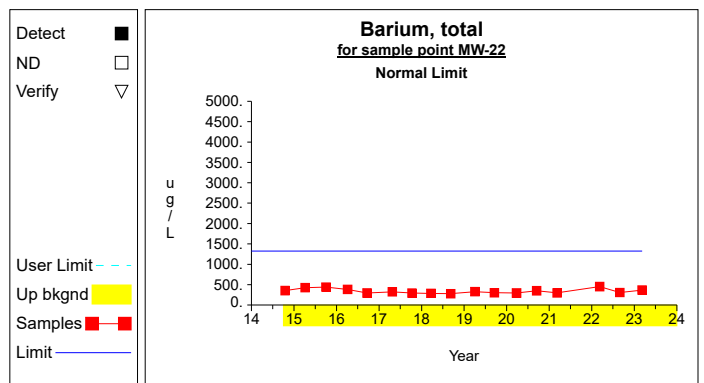
Graph 19



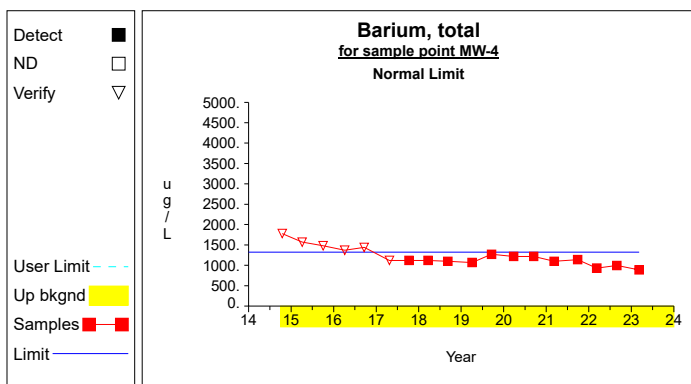
Graph 20



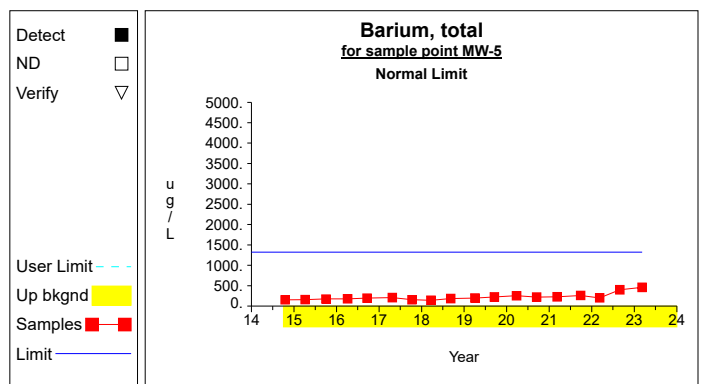
Graph 21



Graph 22

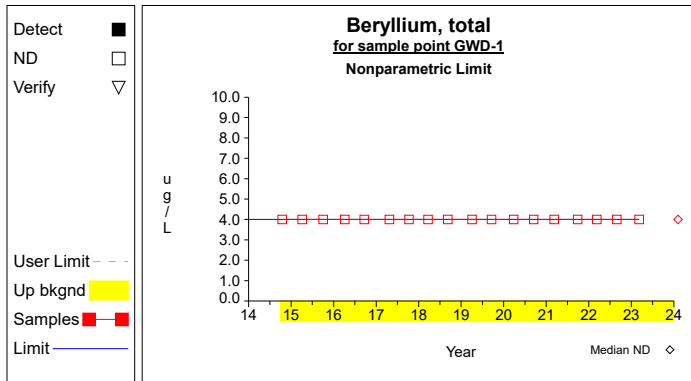


Graph 23

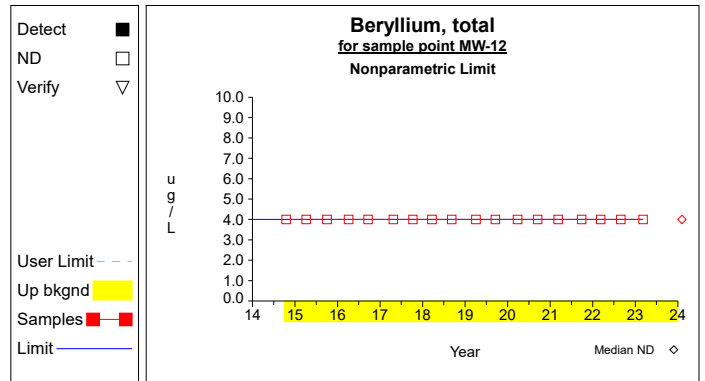


Graph 24

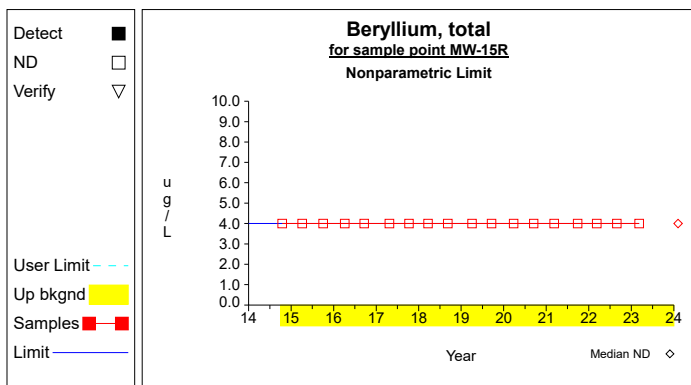
Up vs. Down Prediction Limits



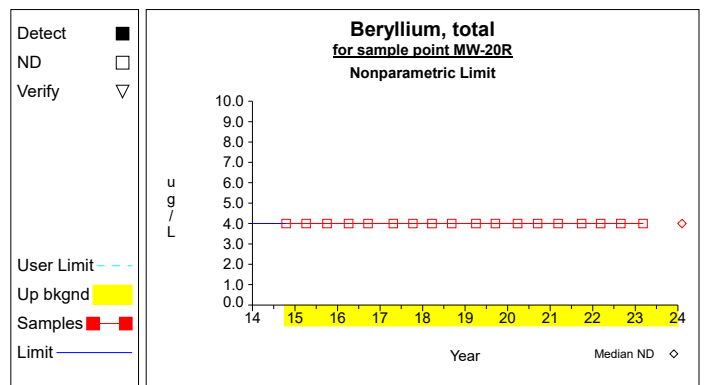
Graph 25



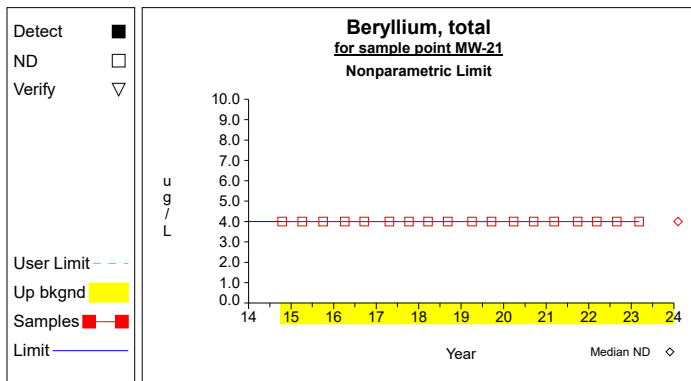
Graph 26



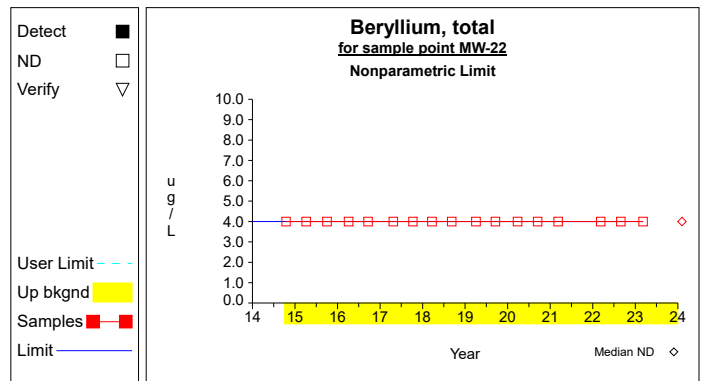
Graph 27



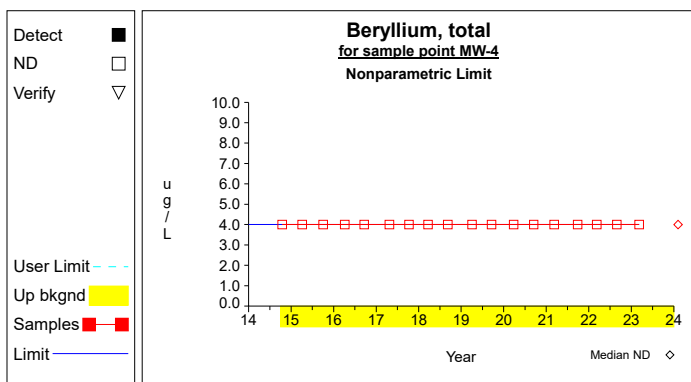
Graph 28



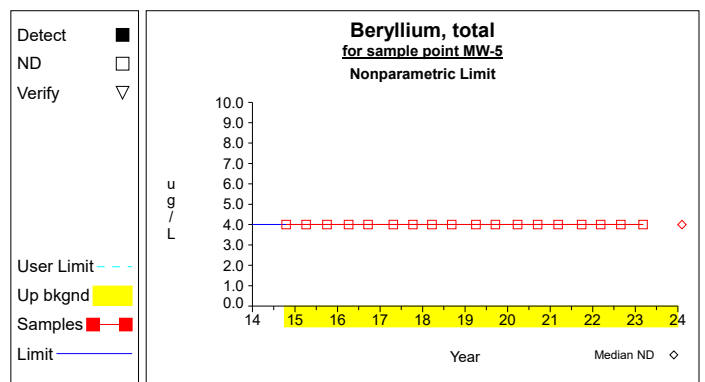
Graph 29



Graph 30

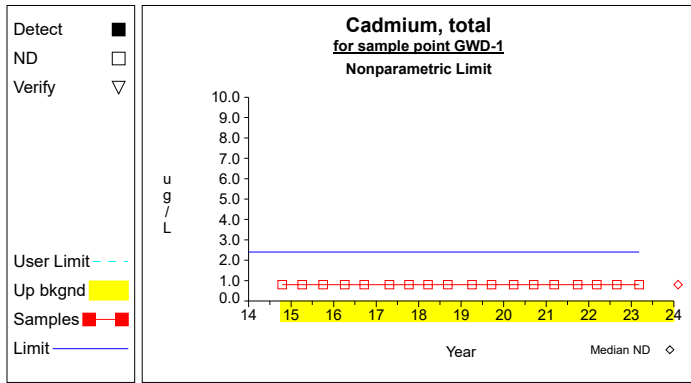


Graph 31

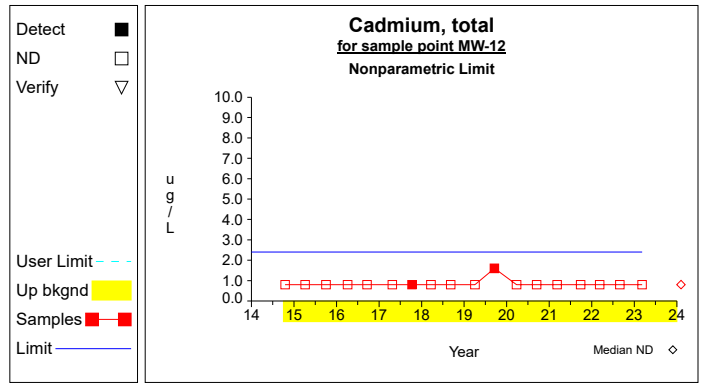


Graph 32

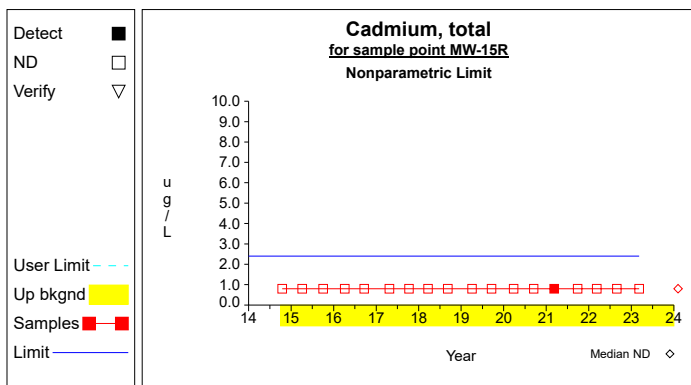
Up vs. Down Prediction Limits



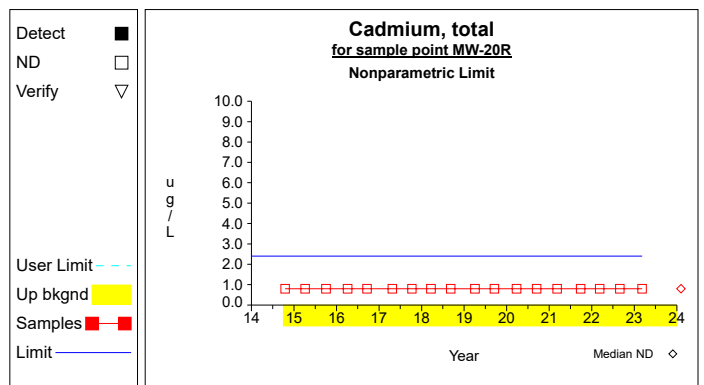
Graph 33



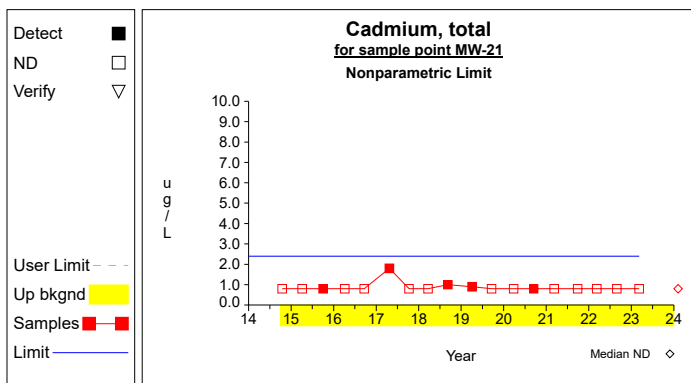
Graph 34



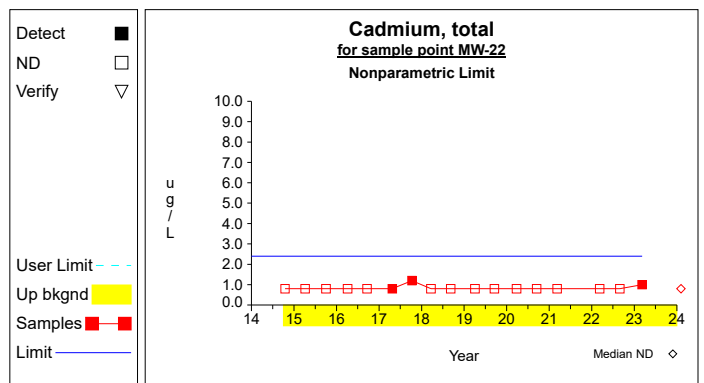
Graph 35



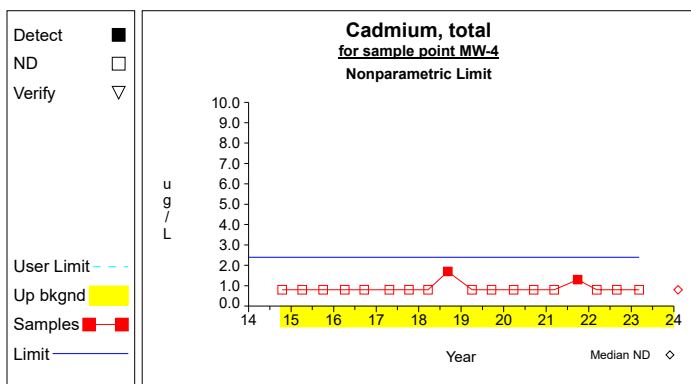
Graph 36



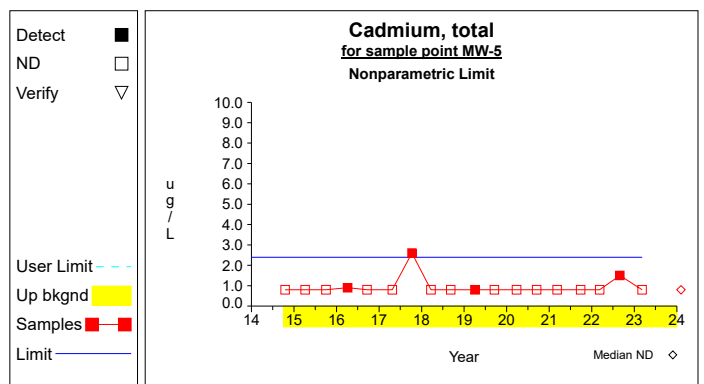
Graph 37



Graph 38

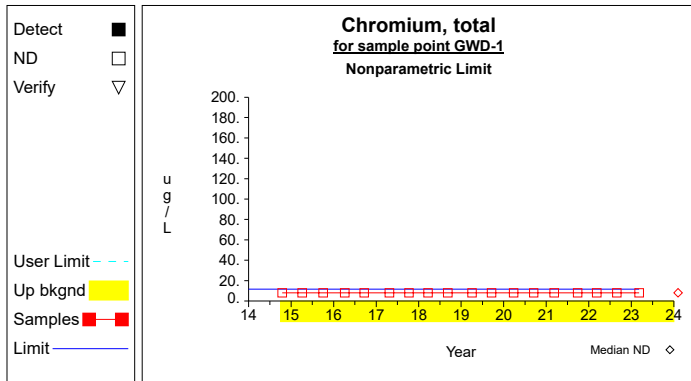


Graph 39

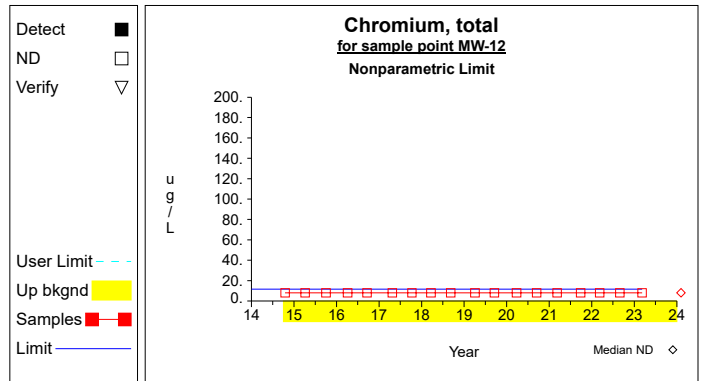


Graph 40

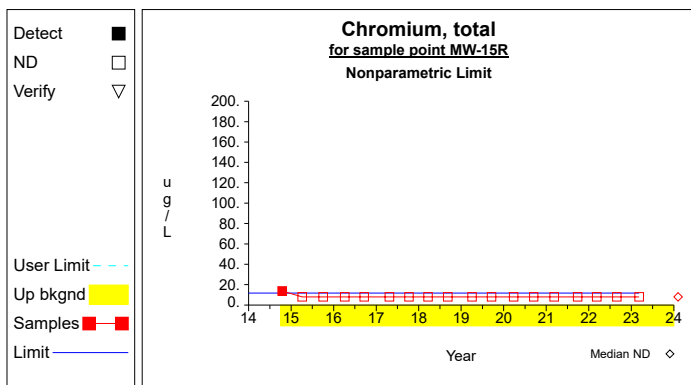
Up vs. Down Prediction Limits



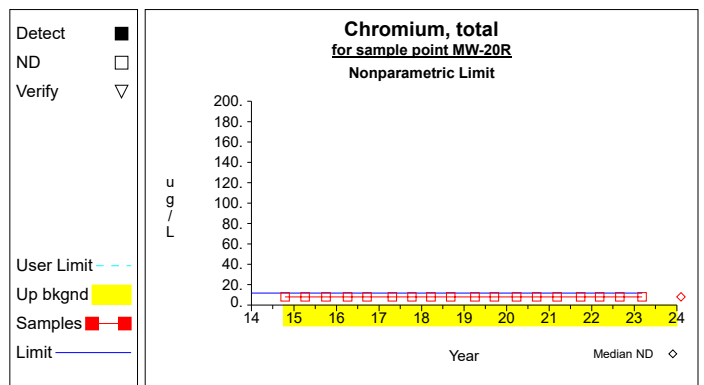
Graph 41



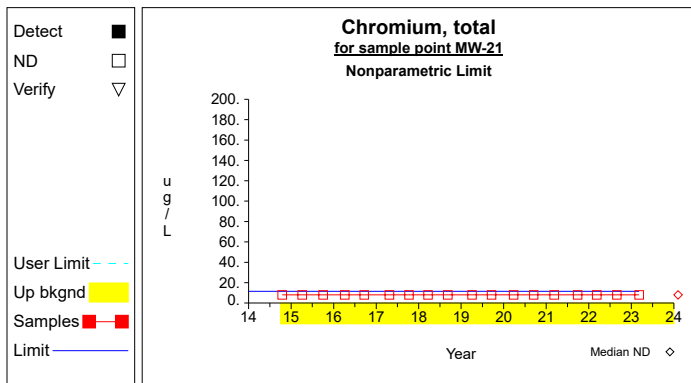
Graph 42



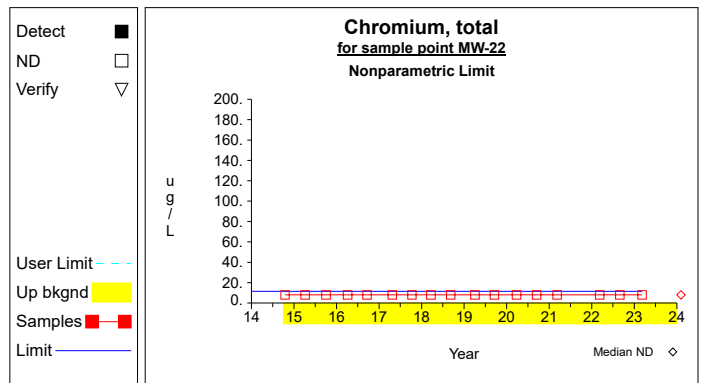
Graph 43



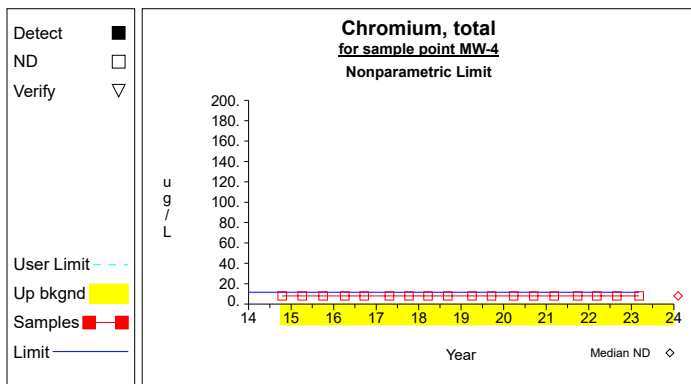
Graph 44



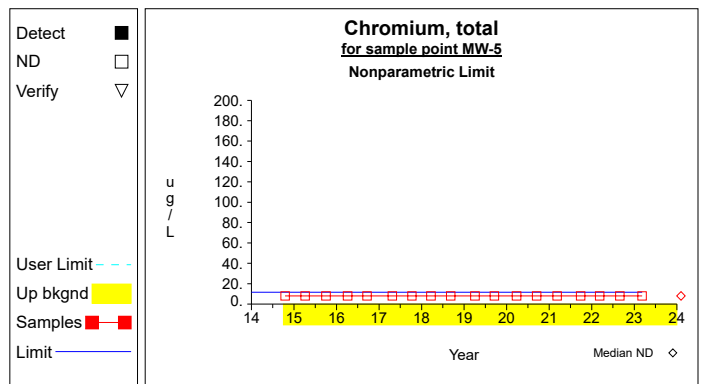
Graph 45



Graph 46

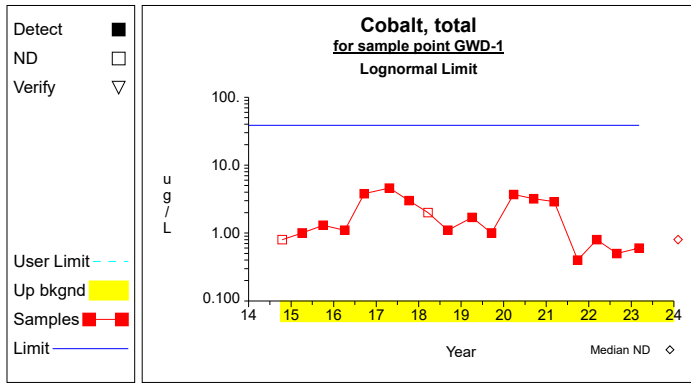


Graph 47

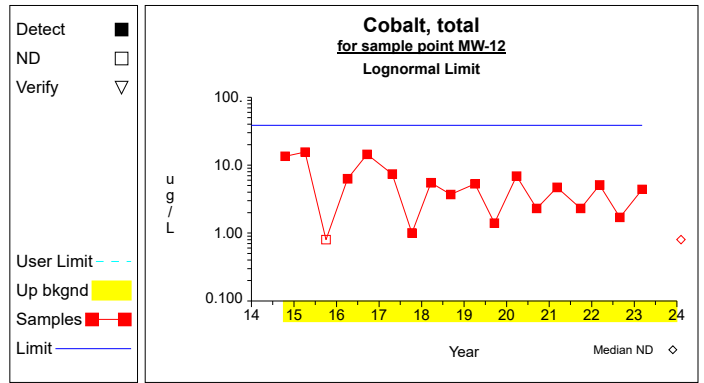


Graph 48

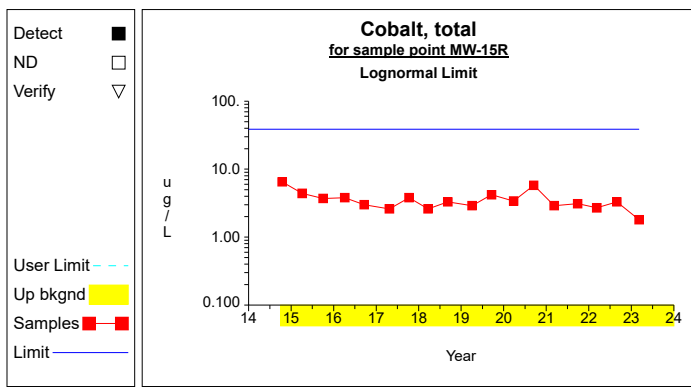
Up vs. Down Prediction Limits



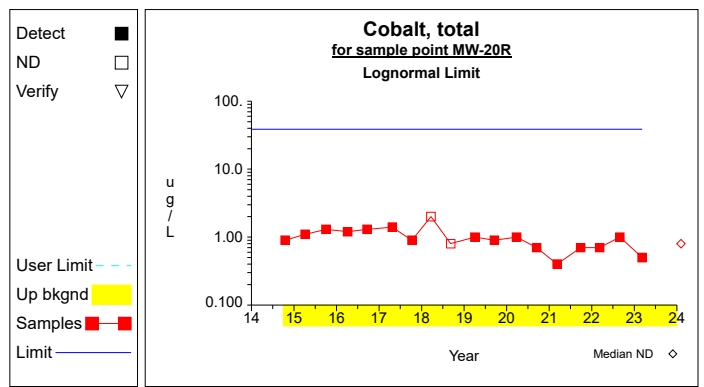
Graph 49



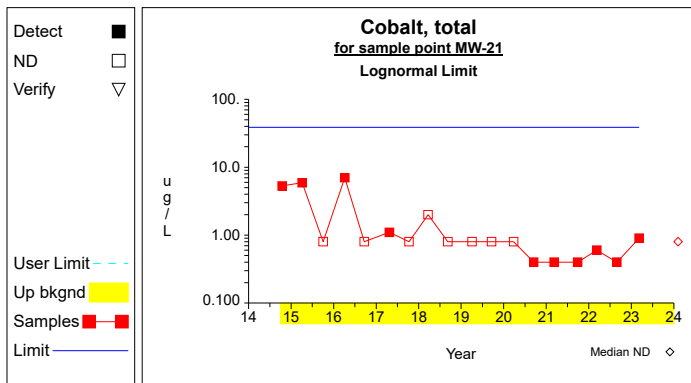
Graph 50



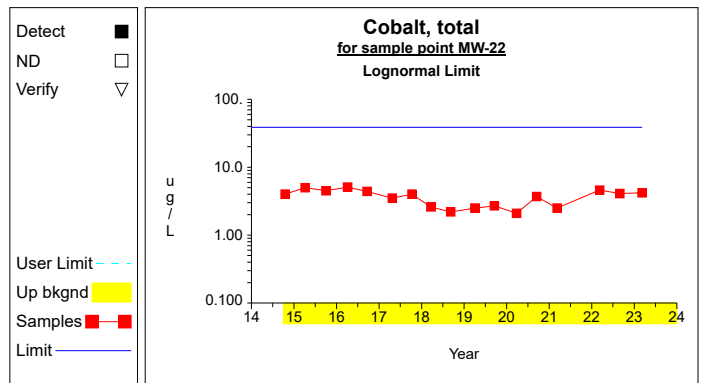
Graph 51



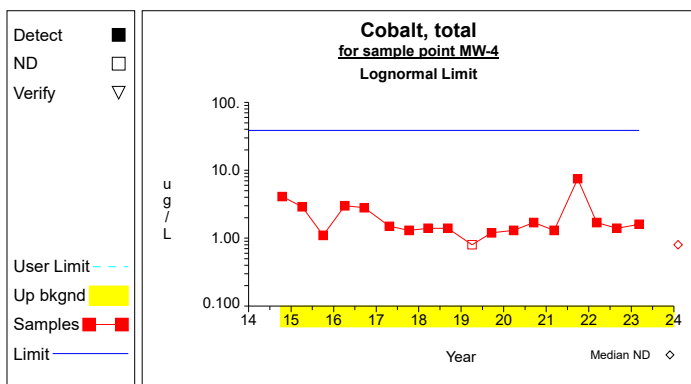
Graph 52



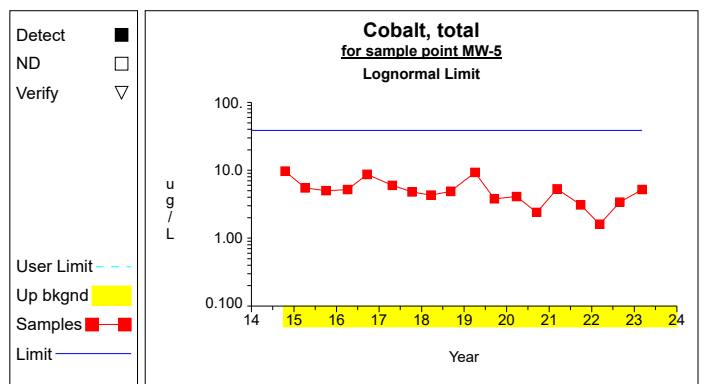
Graph 53



Graph 54

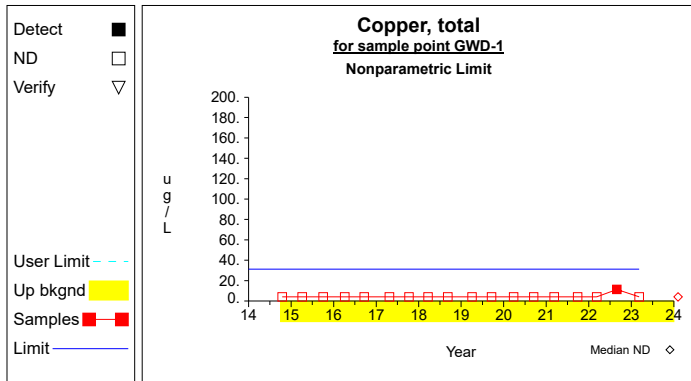


Graph 55

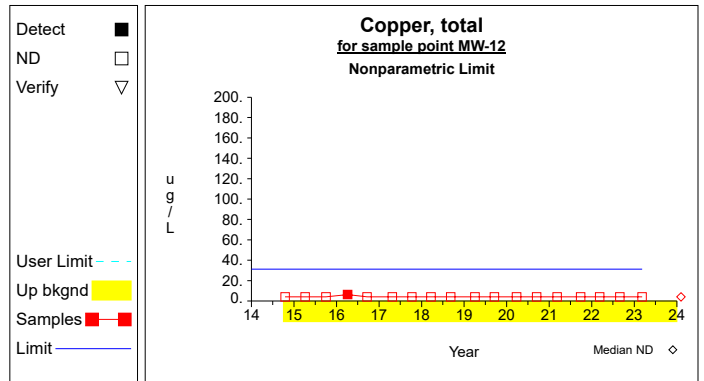


Graph 56

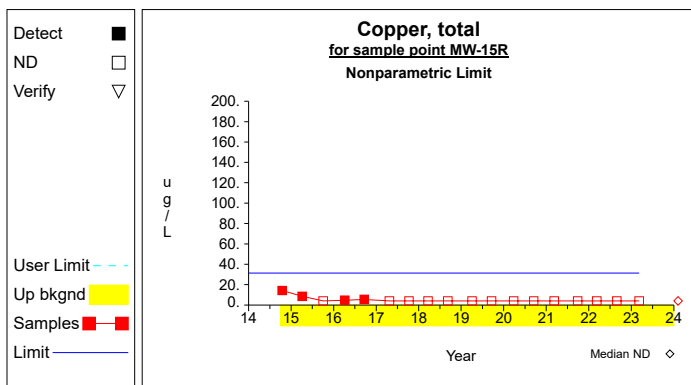
Up vs. Down Prediction Limits



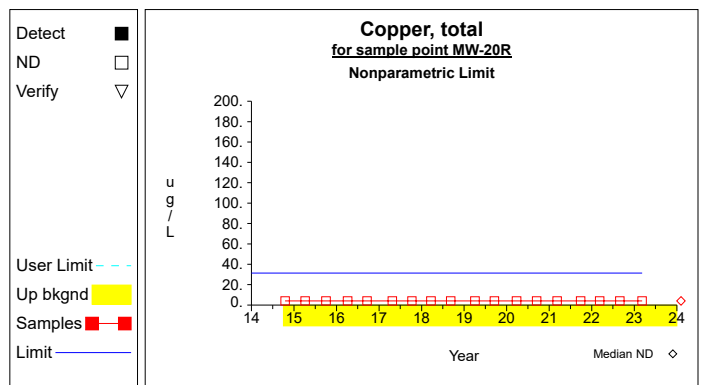
Graph 57



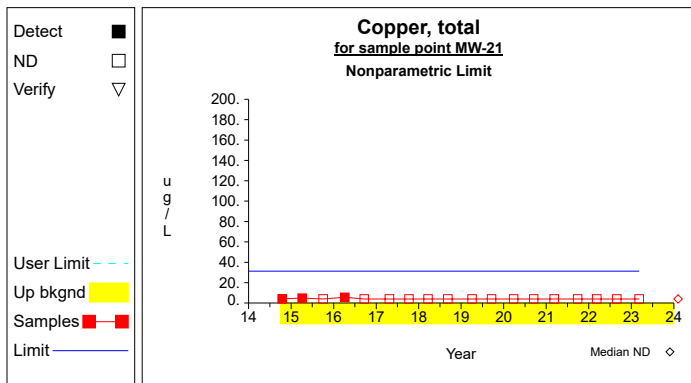
Graph 58



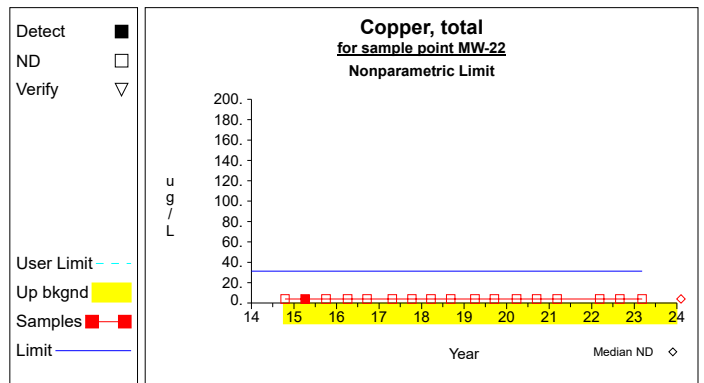
Graph 59



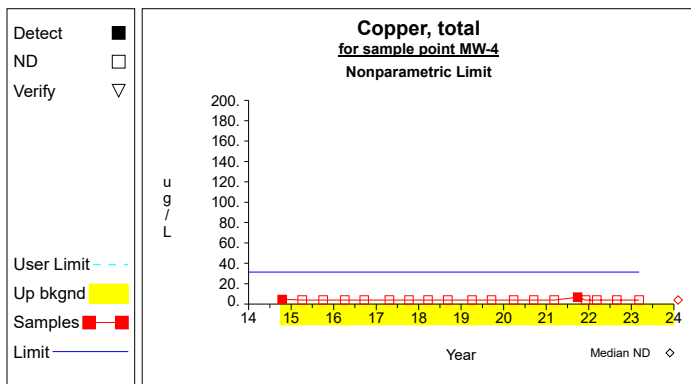
Graph 60



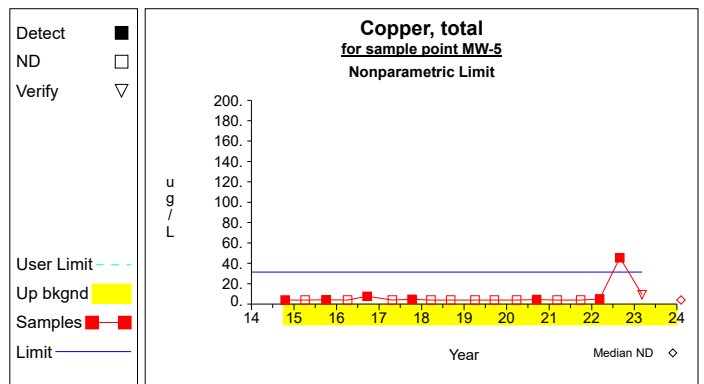
Graph 61



Graph 62

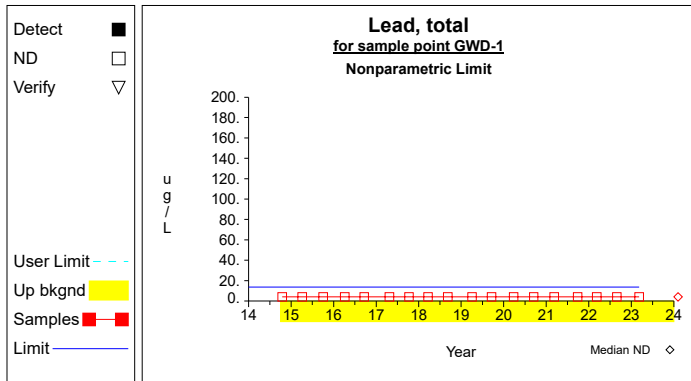


Graph 63

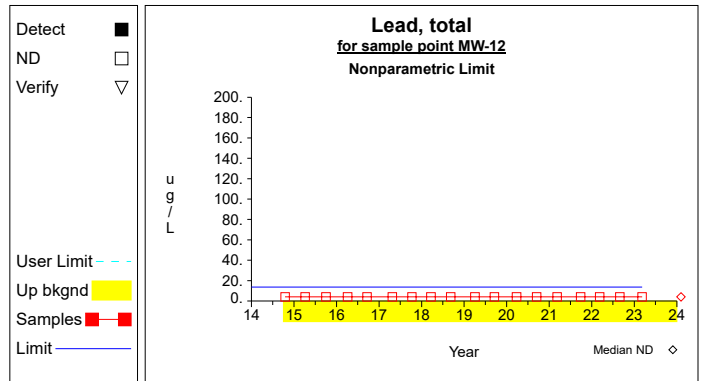


Graph 64

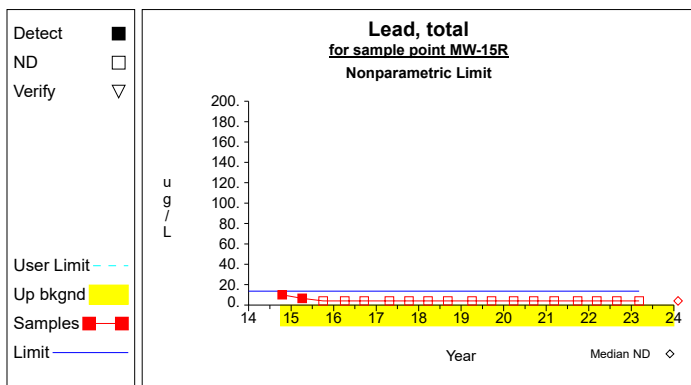
Up vs. Down Prediction Limits



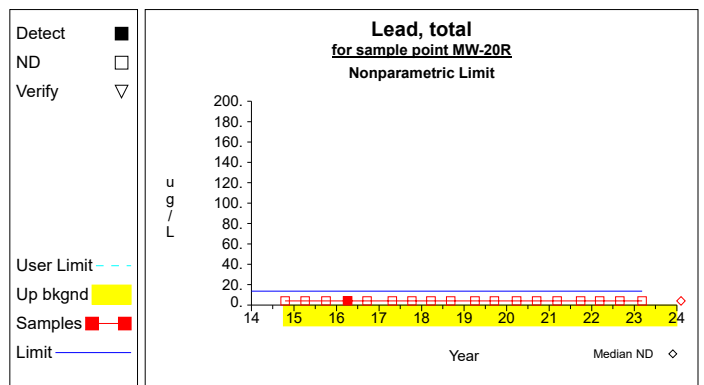
Graph 65



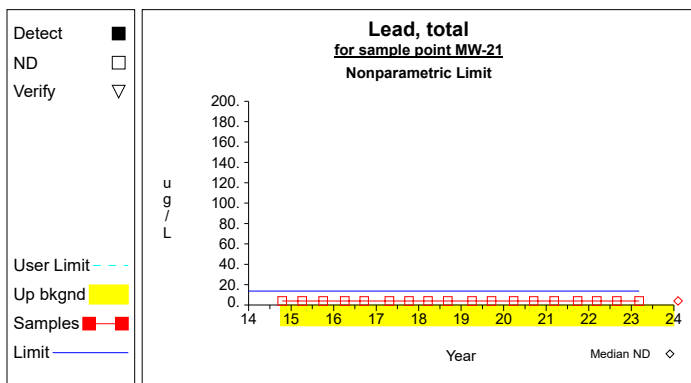
Graph 66



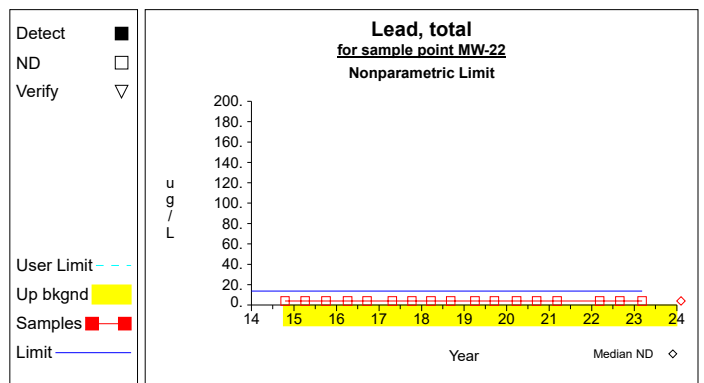
Graph 67



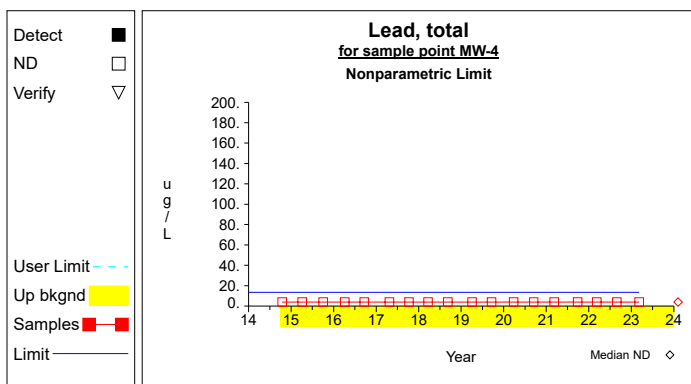
Graph 68



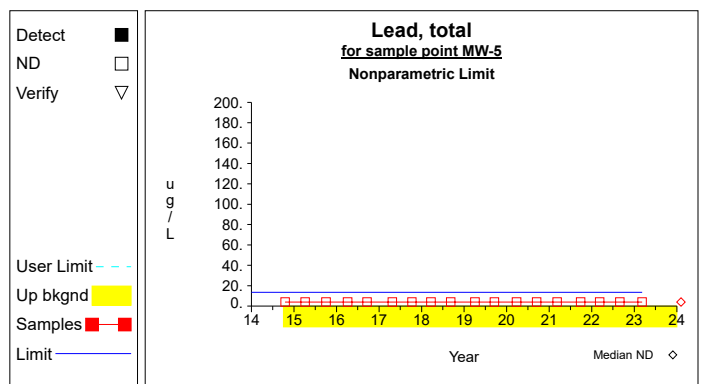
Graph 69



Graph 70

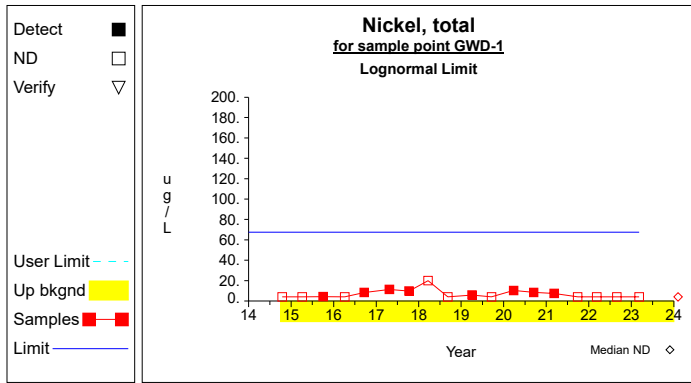


Graph 71

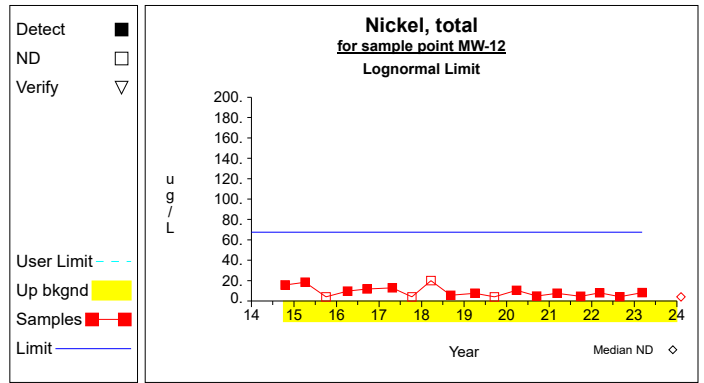


Graph 72

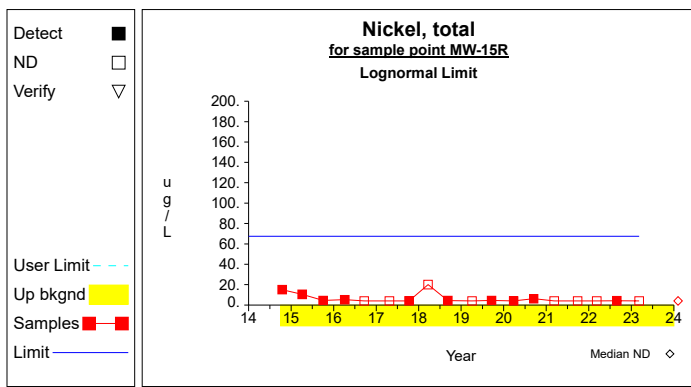
Up vs. Down Prediction Limits



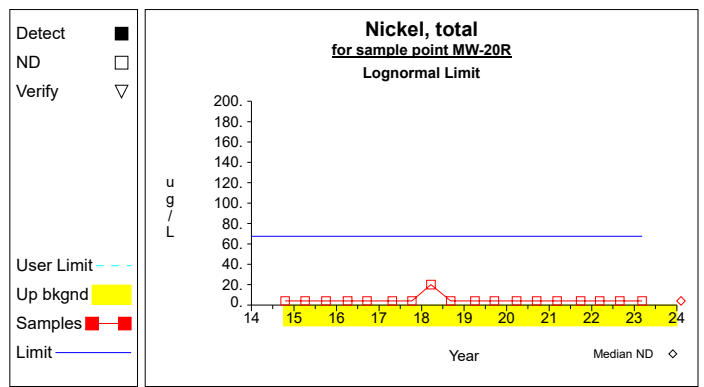
Graph 73



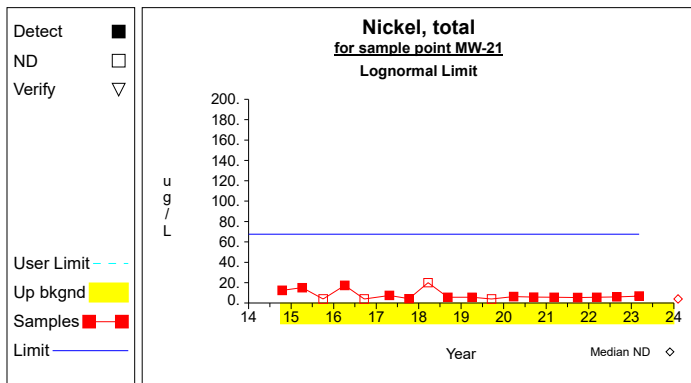
Graph 74



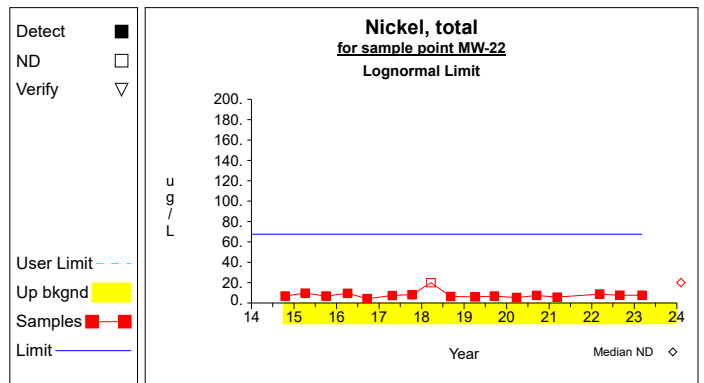
Graph 75



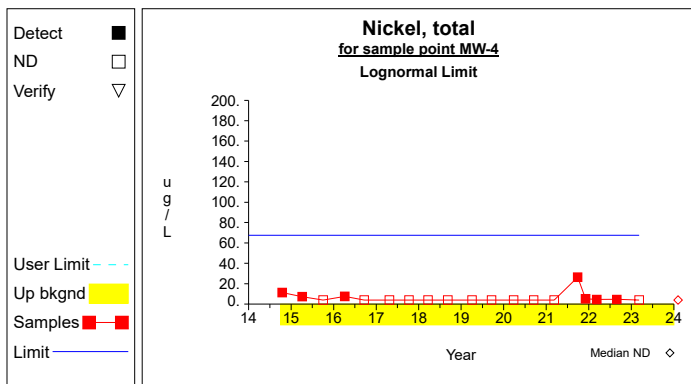
Graph 76



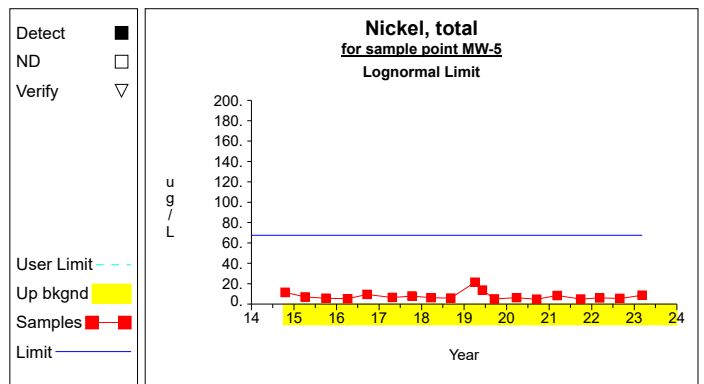
Graph 77



Graph 78

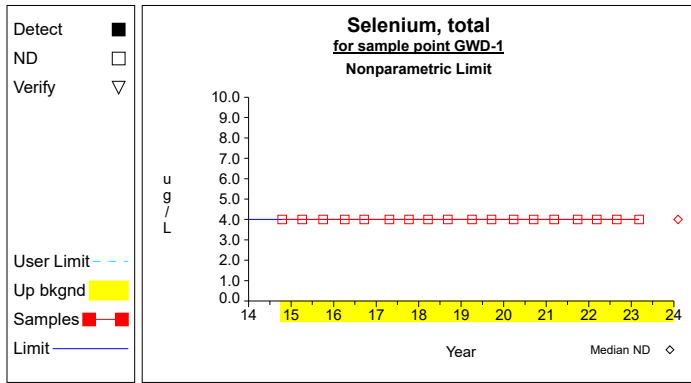


Graph 79

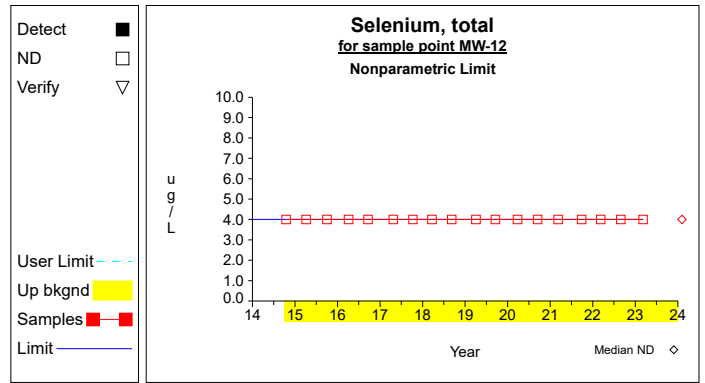


Graph 80

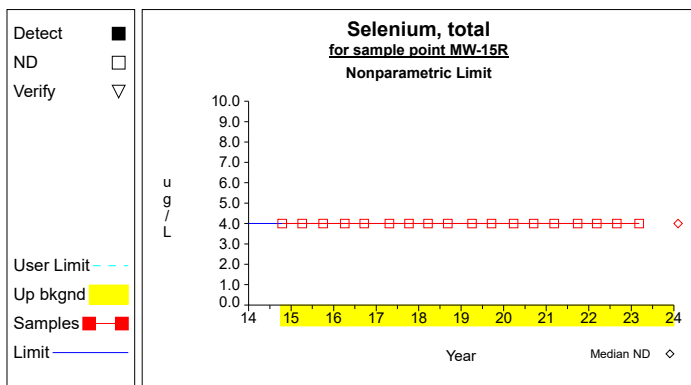
Up vs. Down Prediction Limits



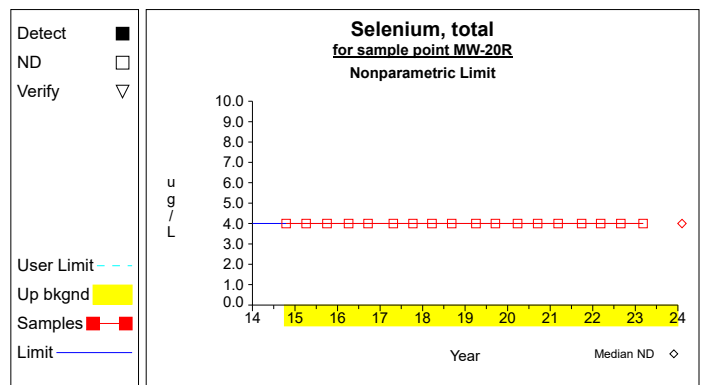
Graph 81



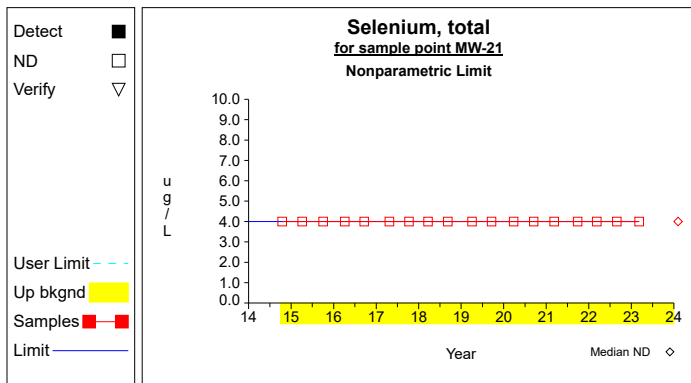
Graph 82



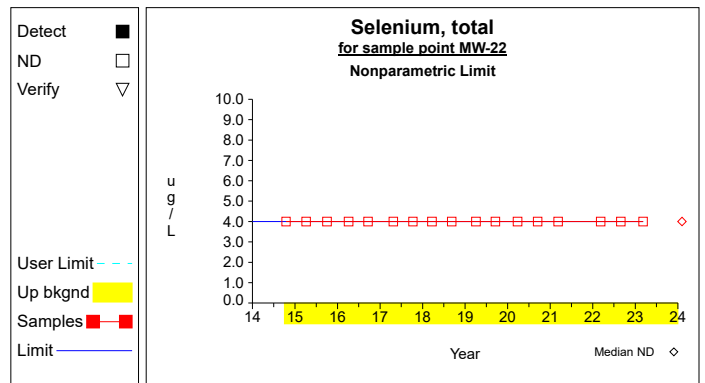
Graph 83



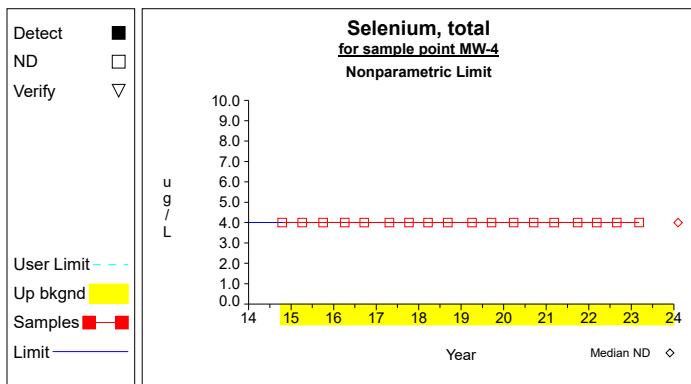
Graph 84



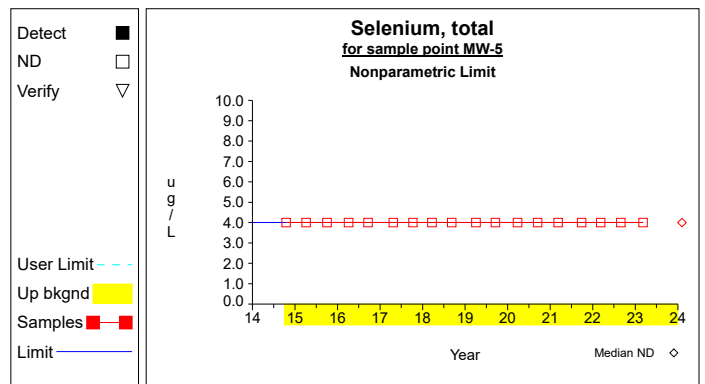
Graph 85



Graph 86

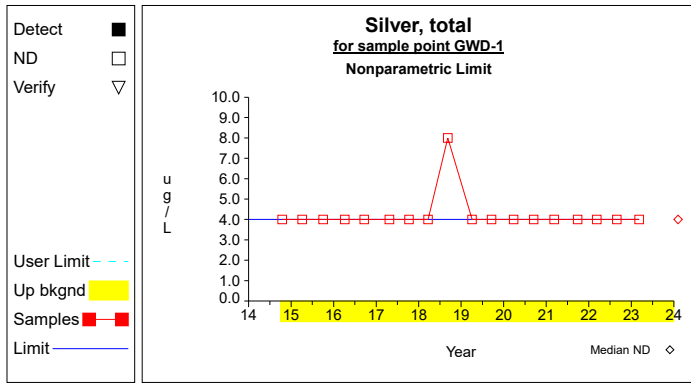


Graph 87

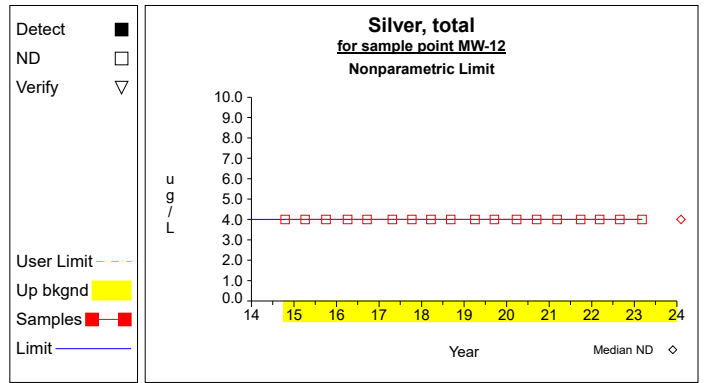


Graph 88

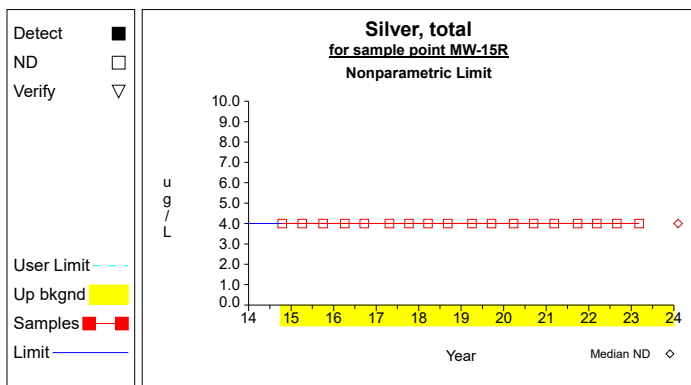
Up vs. Down Prediction Limits



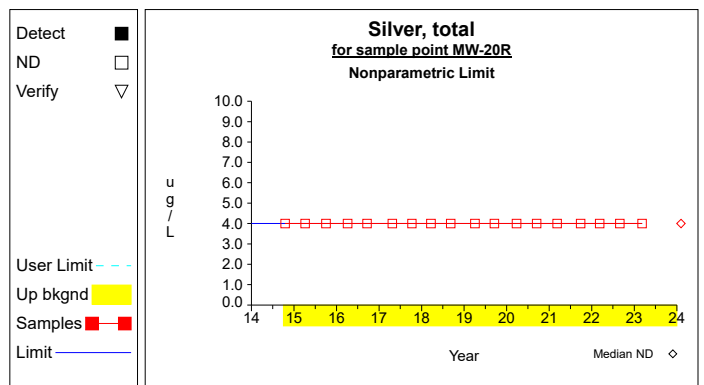
Graph 89



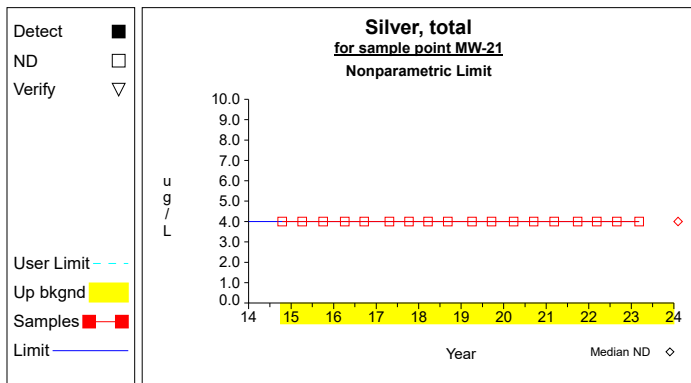
Graph 90



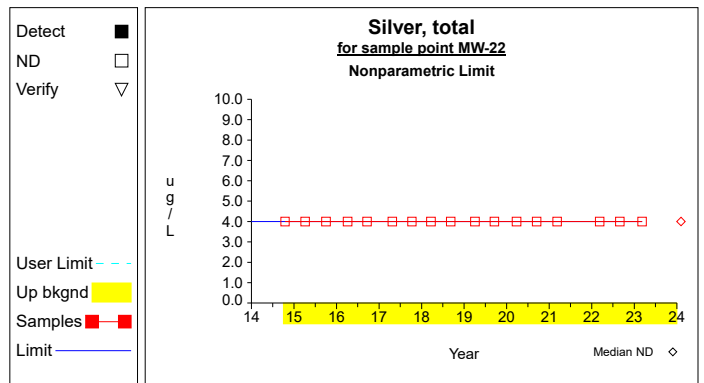
Graph 91



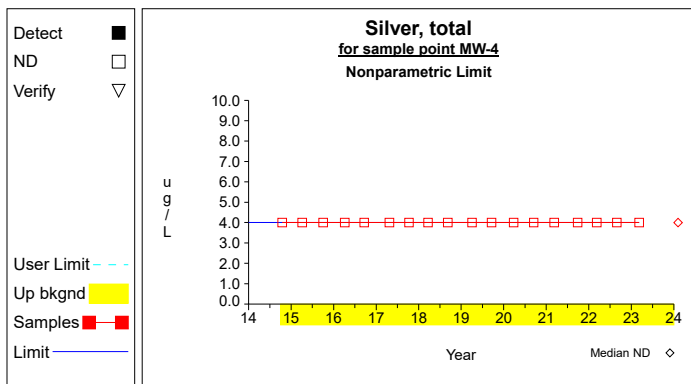
Graph 92



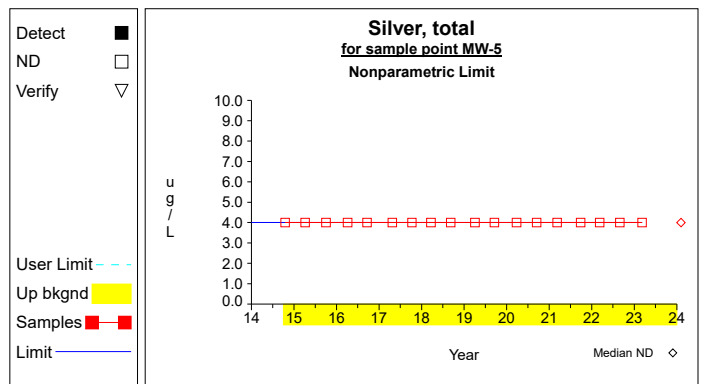
Graph 93



Graph 94

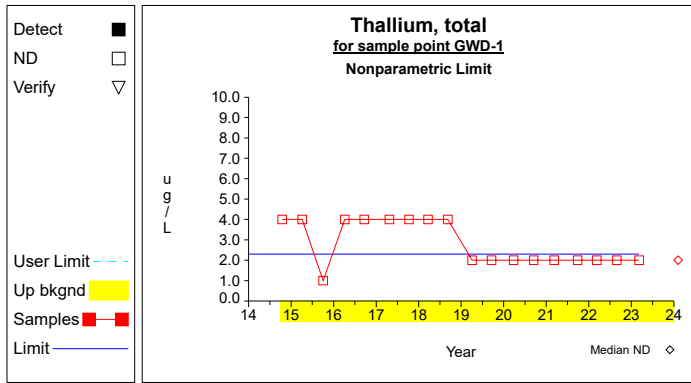


Graph 95

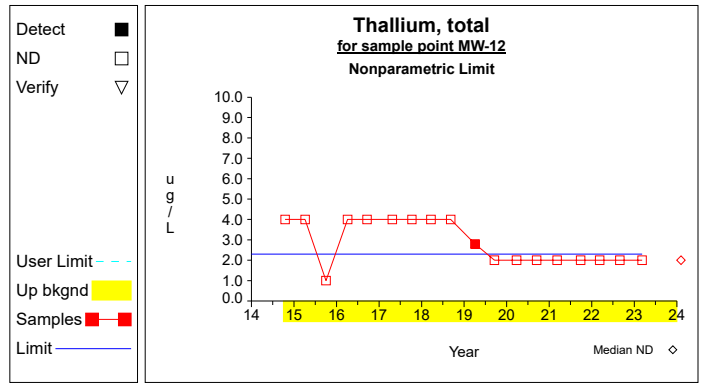


Graph 96

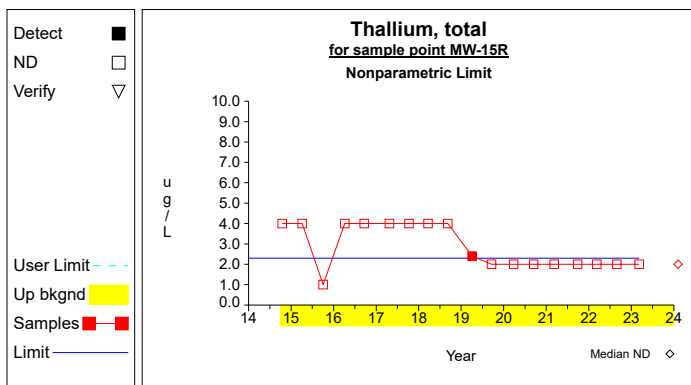
Up vs. Down Prediction Limits



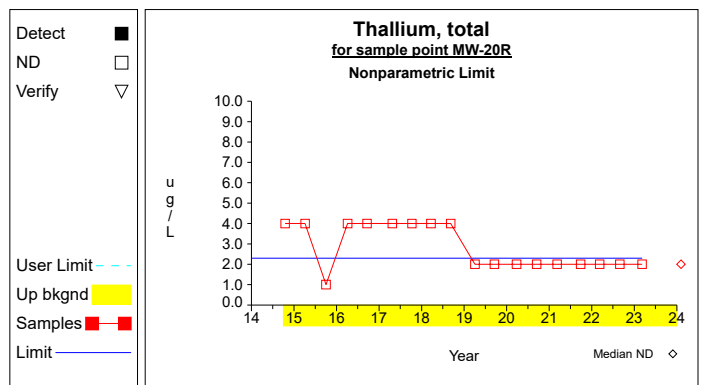
Graph 97



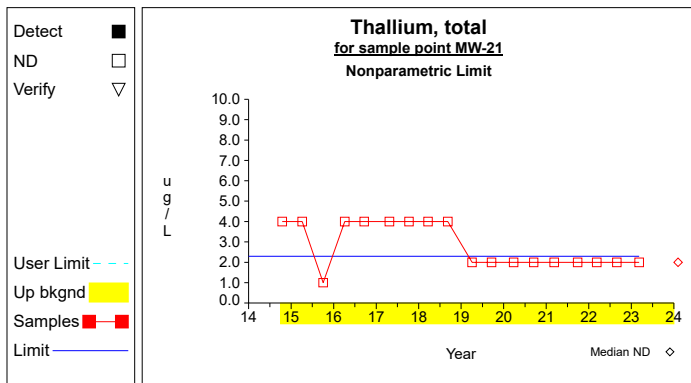
Graph 98



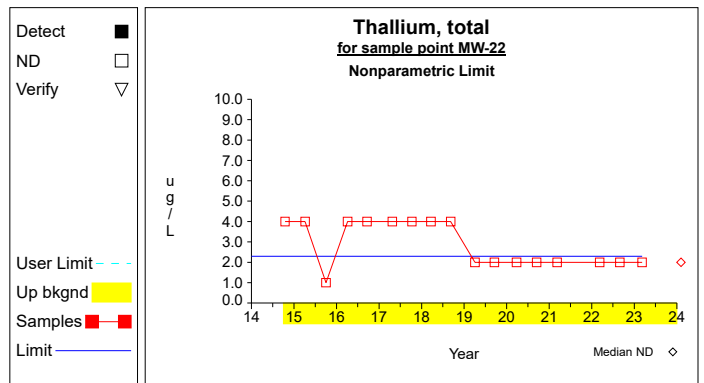
Graph 99



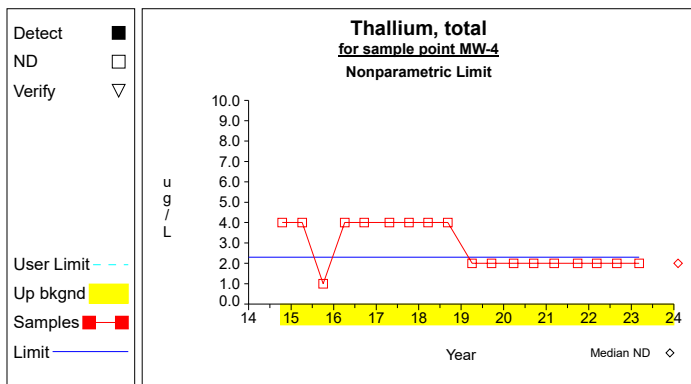
Graph 100



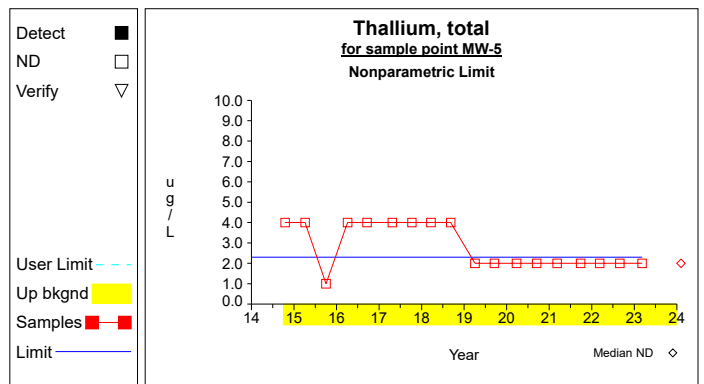
Graph 101



Graph 102

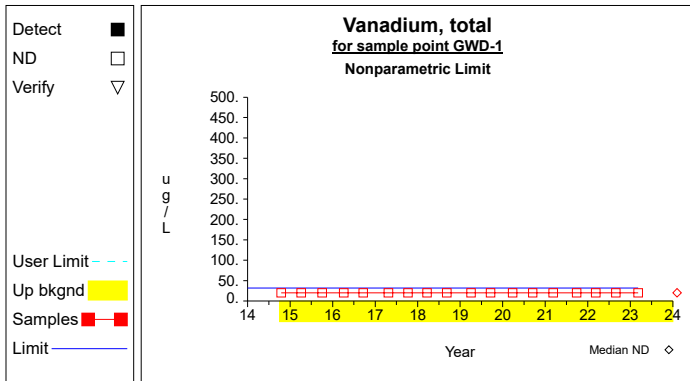


Graph 103

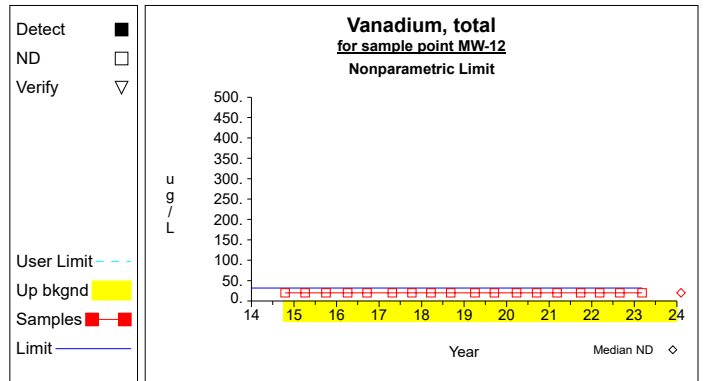


Graph 104

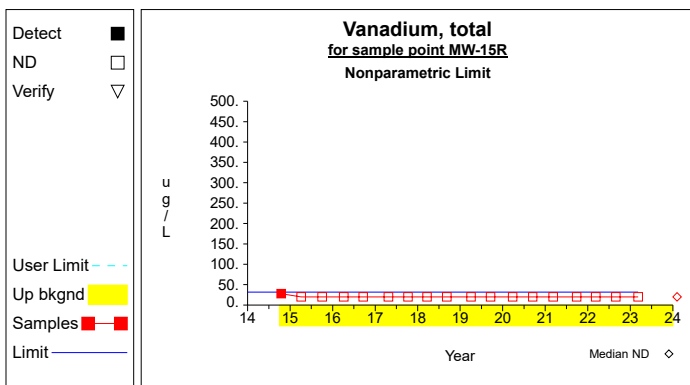
Up vs. Down Prediction Limits



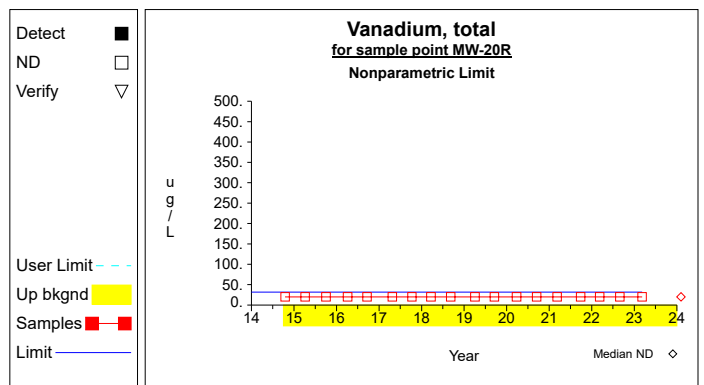
Graph 105



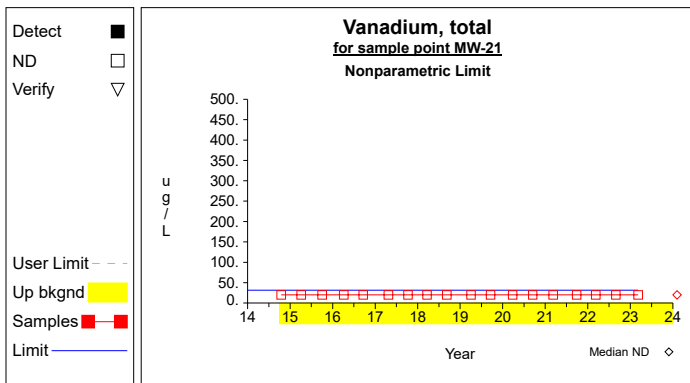
Graph 106



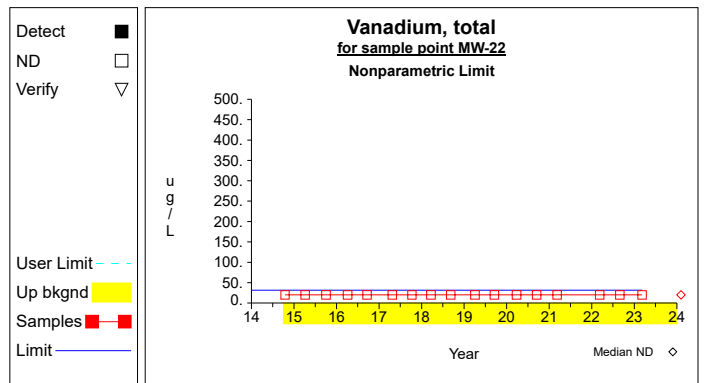
Graph 107



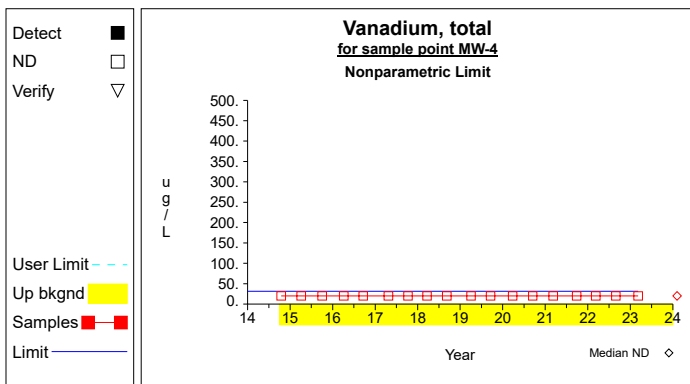
Graph 108



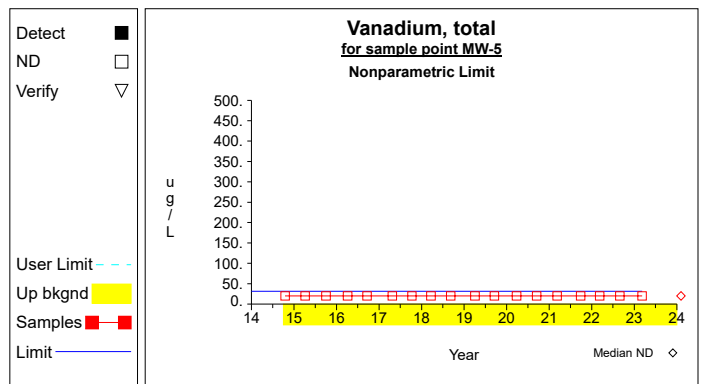
Graph 109



Graph 110

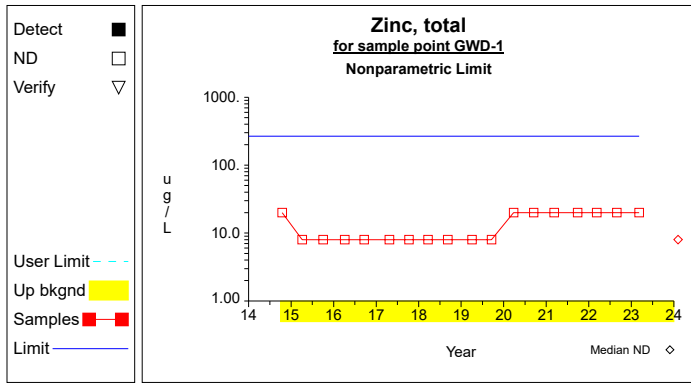


Graph 111

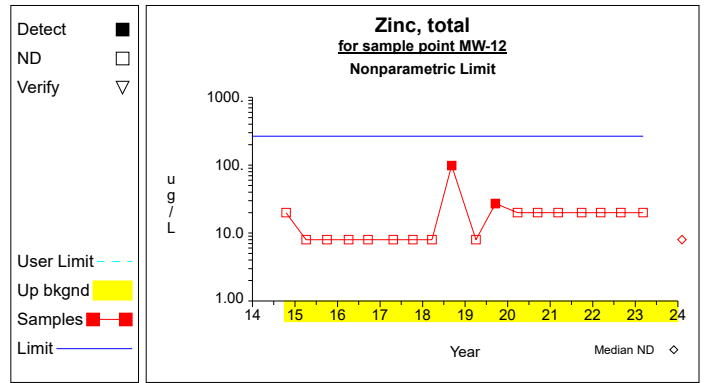


Graph 112

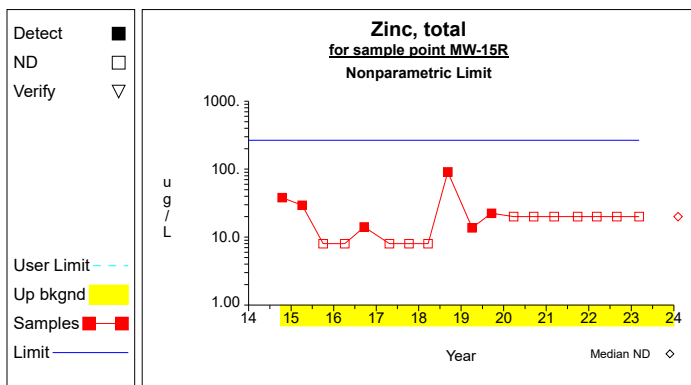
Up vs. Down Prediction Limits



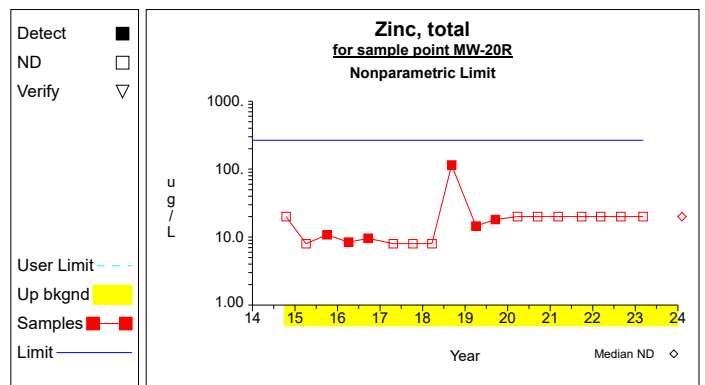
Graph 113



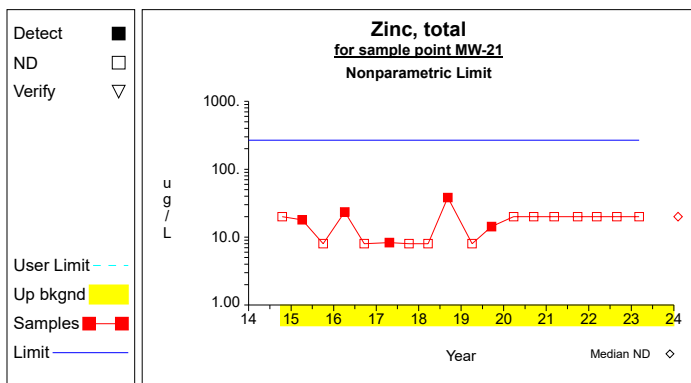
Graph 114



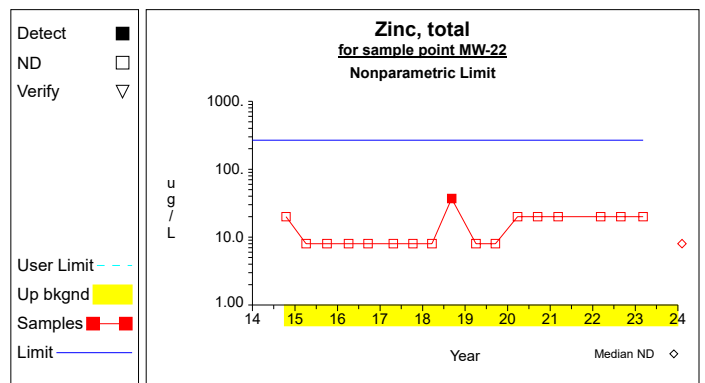
Graph 115



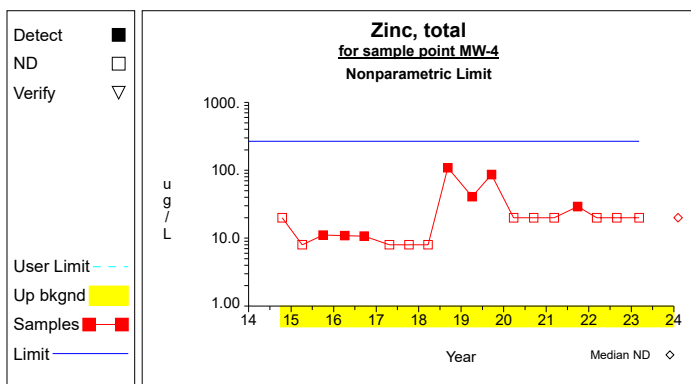
Graph 116



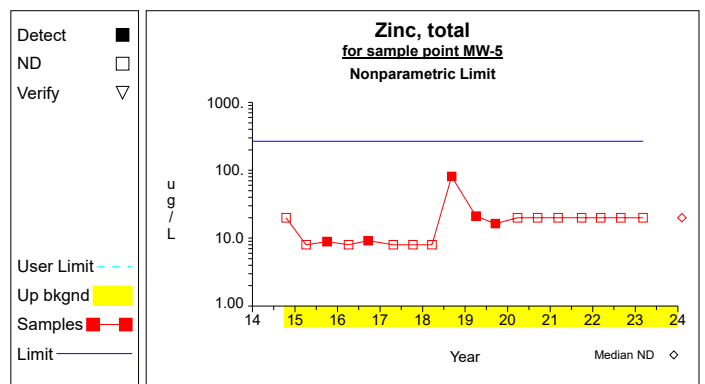
Graph 117



Graph 118

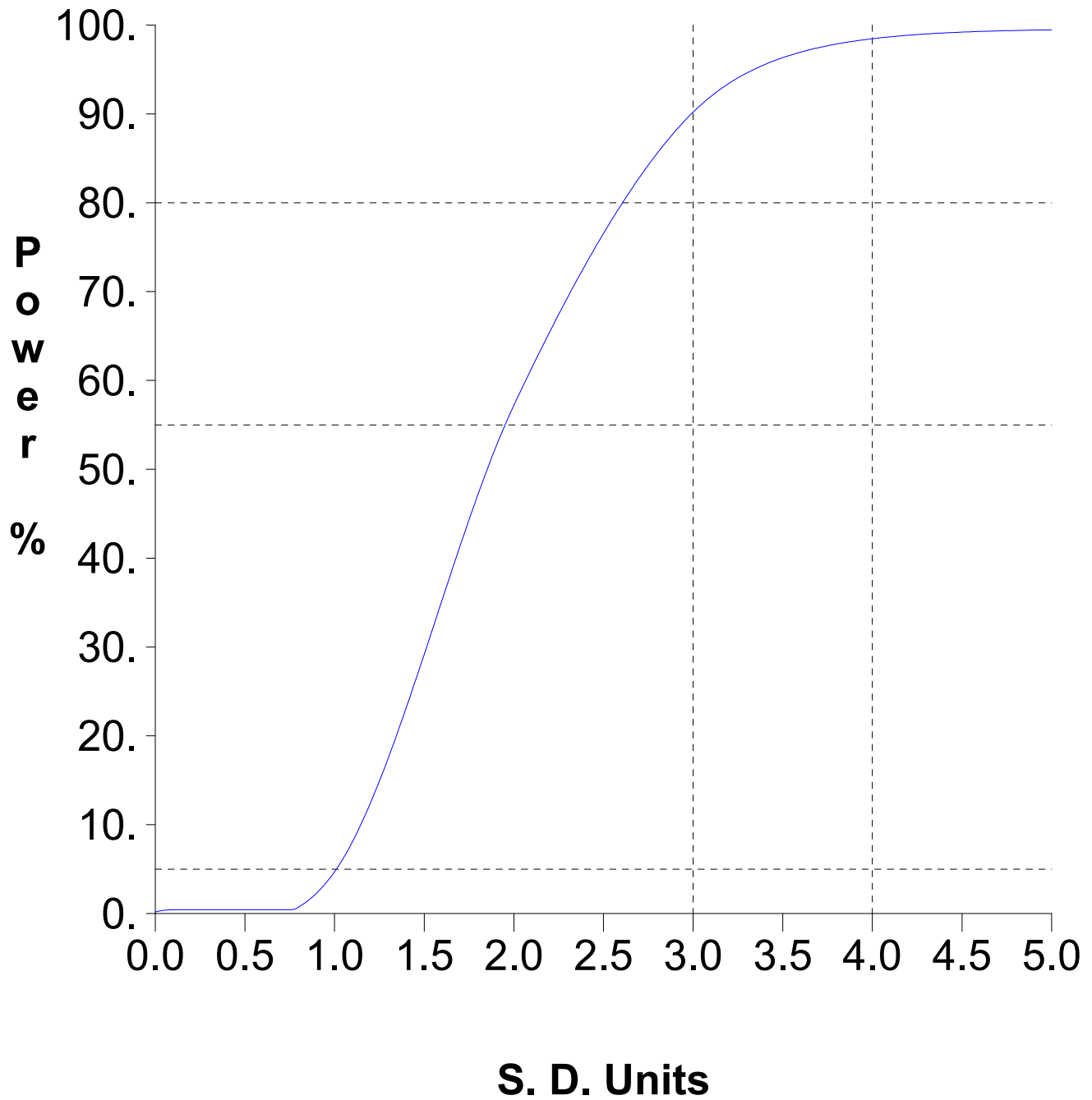


Graph 119



Graph 120

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



Attachment C

Assessment Statistics for Verified Trace Metal Exceedances

Table 1

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

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Arsenic, total	ug/L	GWD-1	4	5.275	0.685	1.176	4.469	6.081	10.000		
Arsenic, total	ug/L	MW-12	4	12.675	4.481	1.176	7.404	17.946	10.000		
Arsenic, total	ug/L	MW-15R	4	21.200	2.954	1.176	17.725	24.675	10.000		**
Arsenic, total	ug/L	MW-17	4	2.000	0.000	1.176	2.000	2.000	10.000		
Arsenic, total	ug/L	MW-18	4	21.700	3.929	1.176	17.078	26.322	10.000		**
Arsenic, total	ug/L	MW-19A	4	2.000	0.000	1.176	2.000	2.000	10.000		
Arsenic, total	ug/L	MW-20R	4	48.275	3.782	1.176	43.826	52.724	10.000		**
Arsenic, total	ug/L	MW-21	4	11.250	13.444	1.176	0.000	27.064	10.000		
Arsenic, total	ug/L	MW-22	4	69.850	25.758	1.176	39.551	100.149	10.000		**
Arsenic, total	ug/L	MW-24	4	92.725	55.871	1.176	27.005	158.445	10.000		**
Arsenic, total	ug/L	MW-26	4	78.975	88.669	1.176	0.000	183.276	10.000		
Arsenic, total	ug/L	MW-4	4	68.425	18.475	1.176	46.694	90.156	10.000		**
Arsenic, total	ug/L	MW-5	4	145.950	180.238	1.176	0.000	357.961	10.000		
Arsenic, total	ug/L	MW-9	4	2.000	0.000	1.176	2.000	2.000	10.000		
Barium, total	ug/L	GWD-1	4	192.250	47.905	1.176	135.900	248.600	2000.000		
Barium, total	ug/L	MW-12	4	368.750	61.814	1.176	296.039	441.461	2000.000		
Barium, total	ug/L	MW-15R	4	408.750	43.706	1.176	357.339	460.161	2000.000		
Barium, total	ug/L	MW-17	4	167.500	23.756	1.176	139.556	195.444	2000.000		
Barium, total	ug/L	MW-18	4	748.750	37.607	1.176	704.514	792.986	2000.000		dec
Barium, total	ug/L	MW-19A	4	36.750	3.272	1.176	32.902	40.598	2000.000		
Barium, total	ug/L	MW-20R	4	627.250	43.638	1.176	575.919	678.581	2000.000		
Barium, total	ug/L	MW-21	4	792.750	446.431	1.176	267.618	1317.882	2000.000		
Barium, total	ug/L	MW-22	4	356.000	70.951	1.176	272.542	439.458	2000.000		
Barium, total	ug/L	MW-24	4	647.250	206.811	1.176	403.980	890.520	2000.000		
Barium, total	ug/L	MW-26	4	860.750	681.528	1.176	59.076	1662.424	2000.000		
Barium, total	ug/L	MW-4	4	989.000	109.548	1.176	860.140	1117.860	2000.000		dec
Barium, total	ug/L	MW-5	4	330.250	120.195	1.176	188.866	471.634	2000.000		inc
Barium, total	ug/L	MW-9	4	265.000	20.849	1.176	240.476	289.524	2000.000		
Cadmium, total	ug/L	GWD-1	4	0.400	0.000	1.176	0.400	0.400	5.000		
Cadmium, total	ug/L	MW-12	4	0.400	0.000	1.176	0.400	0.400	5.000		
Cadmium, total	ug/L	MW-15R	4	0.400	0.000	1.176	0.400	0.400	5.000		
Cadmium, total	ug/L	MW-17	4	0.575	0.350	1.176	0.163	0.987	5.000		
Cadmium, total	ug/L	MW-18	4	0.600	0.400	1.176	0.129	1.071	5.000		
Cadmium, total	ug/L	MW-19A	4	0.400	0.000	1.176	0.400	0.400	5.000		
Cadmium, total	ug/L	MW-20R	4	0.400	0.000	1.176	0.400	0.400	5.000		
Cadmium, total	ug/L	MW-21	4	0.400	0.000	1.176	0.400	0.400	5.000		
Cadmium, total	ug/L	MW-22	4	0.550	0.300	1.176	0.197	0.903	5.000		
Cadmium, total	ug/L	MW-24	4	0.500	0.200	1.176	0.265	0.735	5.000		
Cadmium, total	ug/L	MW-26	1								*
Cadmium, total	ug/L	MW-4	4	0.625	0.450	1.176	0.096	1.154	5.000		
Cadmium, total	ug/L	MW-5	4	0.675	0.550	1.176	0.028	1.322	5.000		
Cadmium, total	ug/L	MW-9	4	0.400	0.000	1.176	0.400	0.400	5.000		
Cobalt, total	ug/L	GWD-1	4	0.575	0.171	1.176	0.374	0.776	2.100		
Cobalt, total	ug/L	MW-12	4	3.375	1.632	1.176	1.456	5.294	2.100		
Cobalt, total	ug/L	MW-15R	4	2.725	0.665	1.176	1.943	3.507	2.100		
Cobalt, total	ug/L	MW-17	4	8.350	5.836	1.176	1.485	15.215	2.100		
Cobalt, total	ug/L	MW-18	4	6.800	2.739	1.176	3.579	10.021	2.100		**
Cobalt, total	ug/L	MW-19A	4	0.450	0.100	1.176	0.332	0.568	2.100		
Cobalt, total	ug/L	MW-20R	4	0.725	0.206	1.176	0.483	0.967	2.100		
Cobalt, total	ug/L	MW-21	4	0.575	0.236	1.176	0.297	0.853	2.100		
Cobalt, total	ug/L	MW-22	4	3.850	0.926	1.176	2.761	4.939	2.100		**
Cobalt, total	ug/L	MW-24	4	0.875	0.640	1.176	0.123	1.627	2.100		dec
Cobalt, total	ug/L	MW-26	1								*
Cobalt, total	ug/L	MW-4	4	3.050	2.969	1.176	0.000	6.543	2.100		
Cobalt, total	ug/L	MW-5	4	3.325	1.477	1.176	1.587	5.063	2.100		dec
Cobalt, total	ug/L	MW-9	4	4.925	0.150	1.176	4.749	5.101	2.100		**
Copper, total	ug/L	GWD-1	4	4.325	4.650	1.176	0.000	9.795	1300.000		
Copper, total	ug/L	MW-12	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Copper, total	ug/L	MW-15R	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Copper, total	ug/L	MW-17	4	3.850	2.548	1.176	0.853	6.847	1300.000		
Copper, total	ug/L	MW-18	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Copper, total	ug/L	MW-19A	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Copper, total	ug/L	MW-20R	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Copper, total	ug/L	MW-21	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Copper, total	ug/L	MW-22	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Copper, total	ug/L	MW-24	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Copper, total	ug/L	MW-26	1								*
Copper, total	ug/L	MW-4	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Copper, total	ug/L	MW-5	4	15.425	20.266	1.176	0.000	39.264	1300.000		
Copper, total	ug/L	MW-9	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Nickel, total	ug/L	GWD-1	4	2.000	0.000	1.176	2.000	2.000	100.000		
Nickel, total	ug/L	MW-12	4	6.225	2.170	1.176	3.672	8.778	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	
Nickel, total	ug/L	MW-15R	4	2.550	1.100	1.176	1.256	3.844	100.000		
Nickel, total	ug/L	MW-17	4	9.575	4.938	1.176	3.767	15.383	100.000		
Nickel, total	ug/L	MW-18	4	13.100	6.199	1.176	5.808	20.392	100.000		
Nickel, total	ug/L	MW-19A	4	9.450	1.723	1.176	7.423	11.477	100.000		
Nickel, total	ug/L	MW-20R	4	2.000	0.000	1.176	2.000	2.000	100.000		
Nickel, total	ug/L	MW-21	4	6.000	0.606	1.176	5.288	6.712	100.000		
Nickel, total	ug/L	MW-22	4	7.450	1.207	1.176	6.030	8.870	100.000		
Nickel, total	ug/L	MW-24	4	2.000	0.000	1.176	2.000	2.000	100.000		
Nickel, total	ug/L	MW-26	1								*
Nickel, total	ug/L	MW-4	4	4.075	1.417	1.176	2.408	5.742	100.000		
Nickel, total	ug/L	MW-5	4	6.325	1.658	1.176	4.375	8.275	100.000		
Nickel, total	ug/L	MW-9	4	9.975	0.465	1.176	9.429	10.521	100.000		

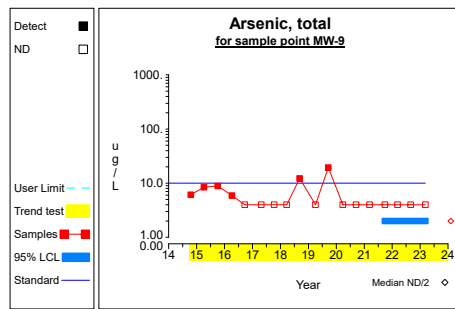
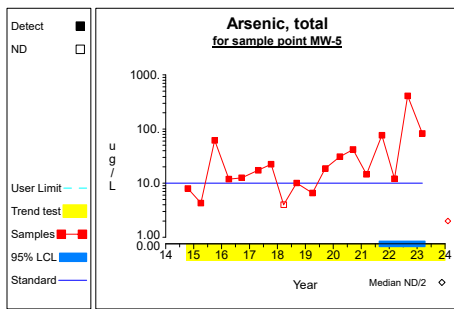
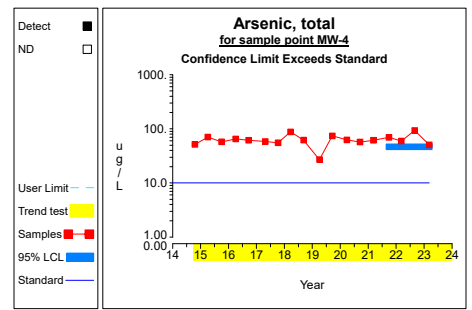
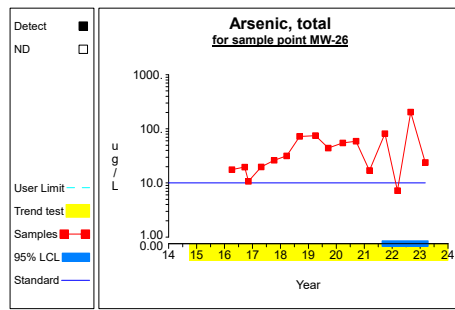
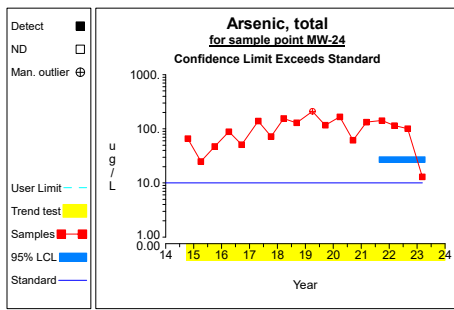
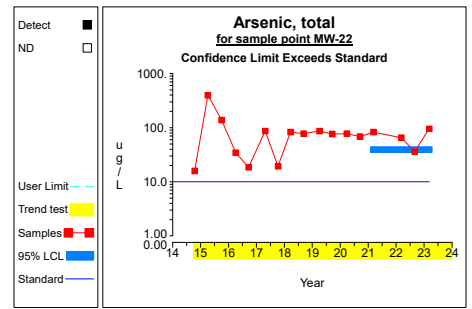
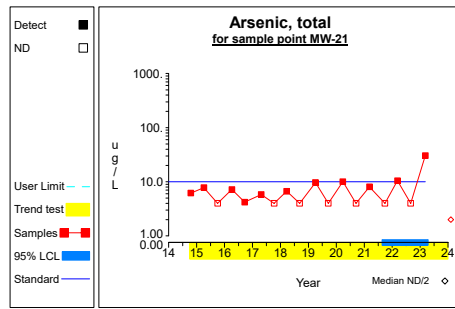
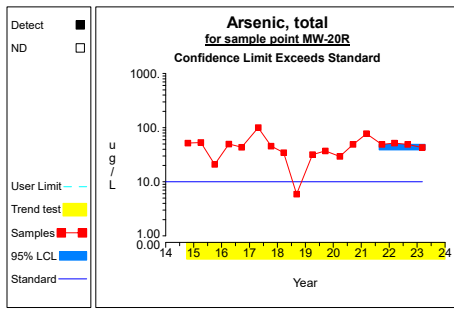
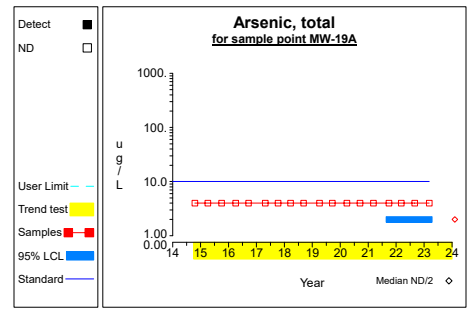
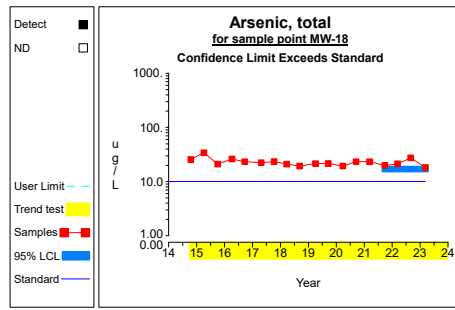
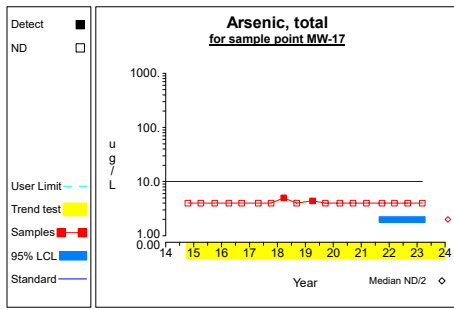
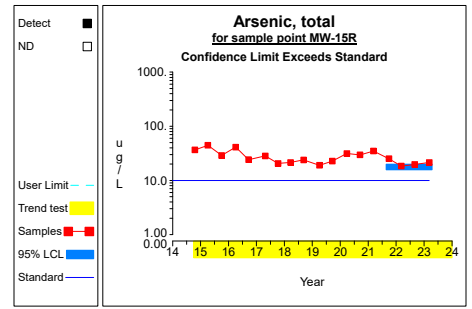
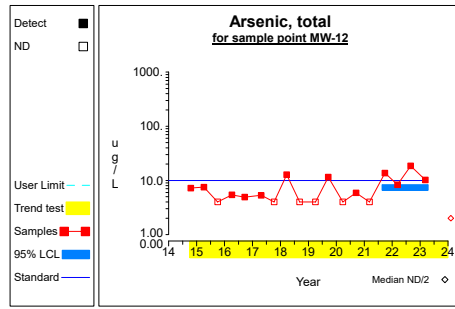
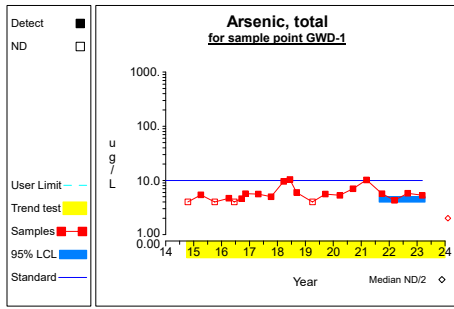
* - Insufficient Data

** - Significant Exceedance

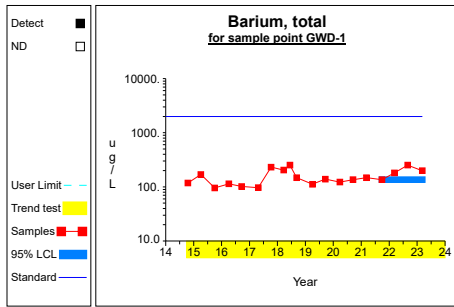
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

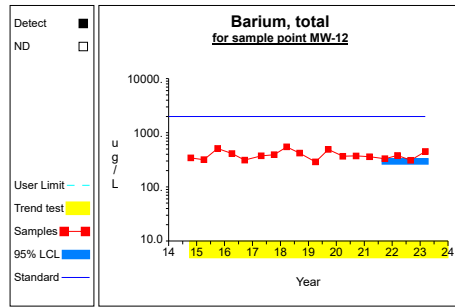
Confidence Limits (Assessment)



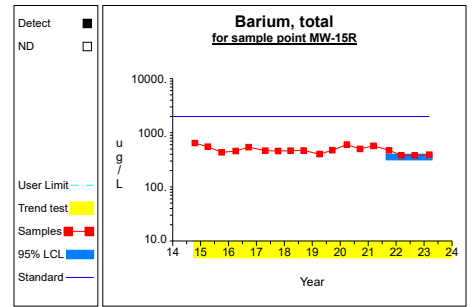
Confidence Limits (Assessment)



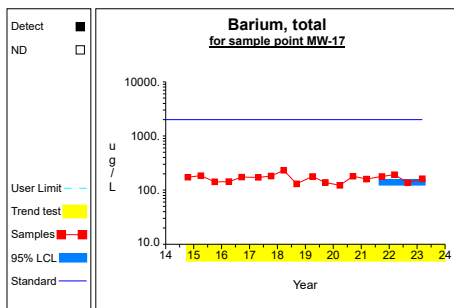
Graph 15



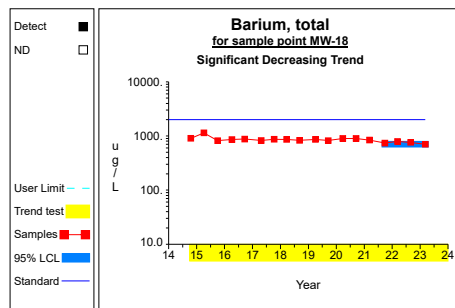
Graph 16



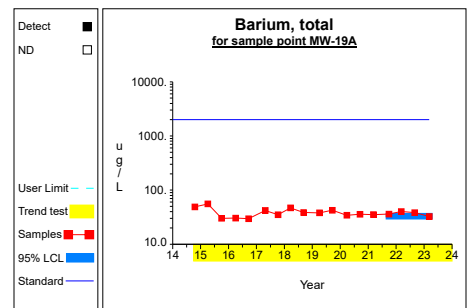
Graph 17



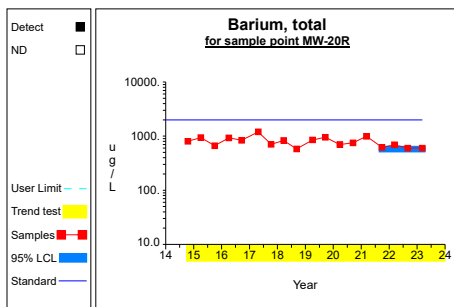
Graph 18



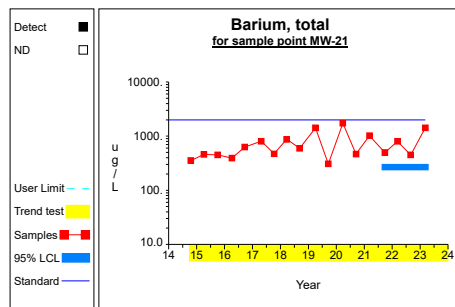
Graph 19



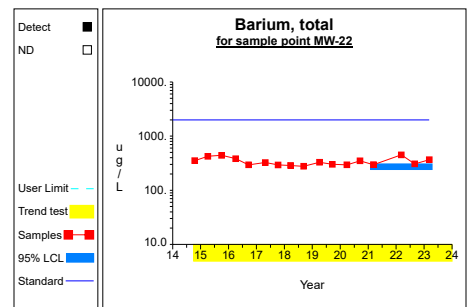
Graph 20



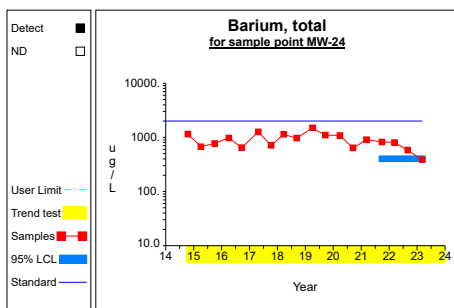
Graph 21



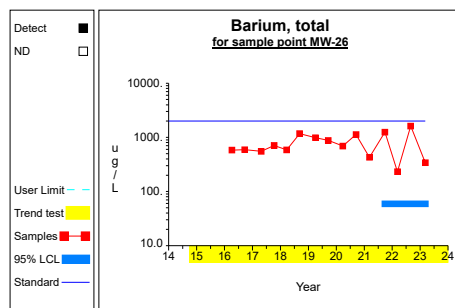
Graph 22



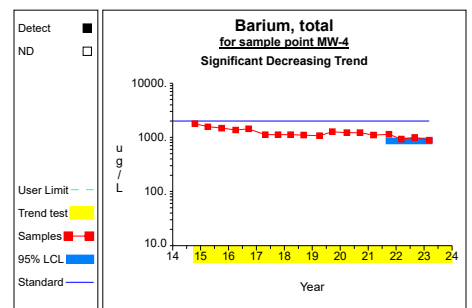
Graph 23



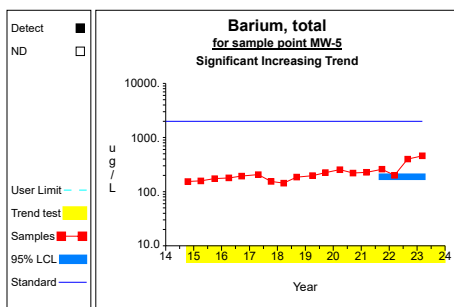
Graph 24



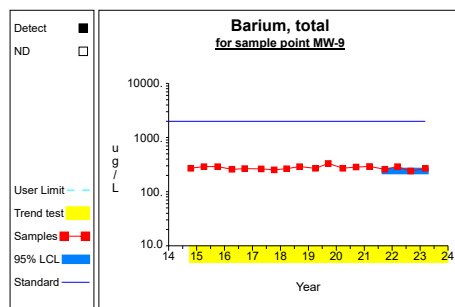
Graph 25



Graph 26

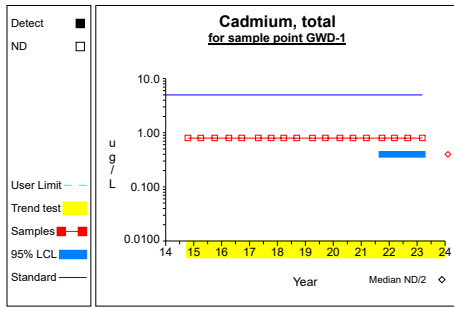


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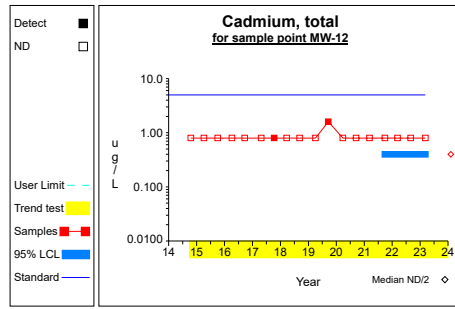


Graph 28

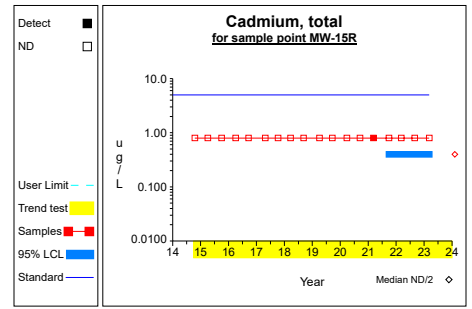
Confidence Limits (Assessment)



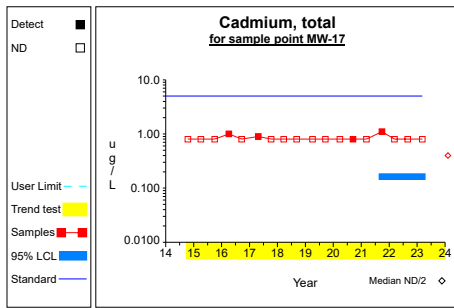
Graph 29



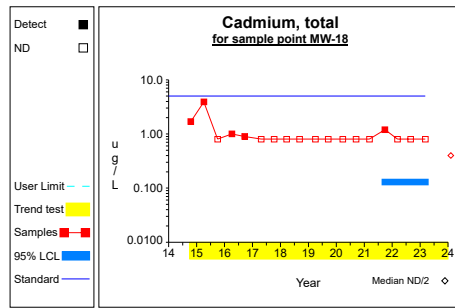
Graph 30



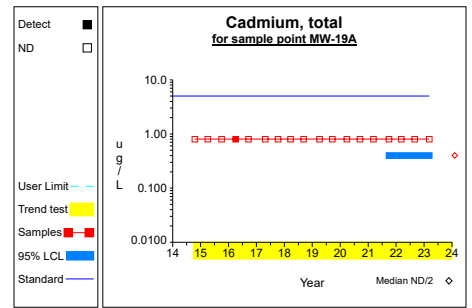
Graph 31



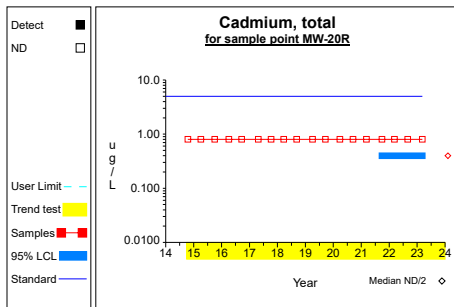
Graph 32



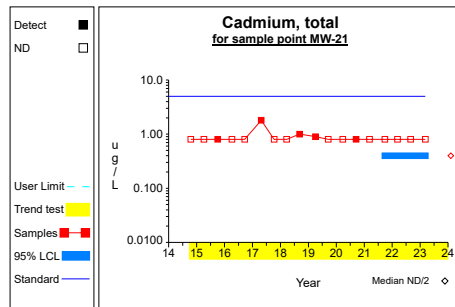
Graph 33



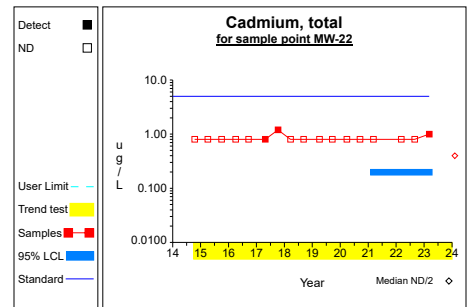
Graph 34



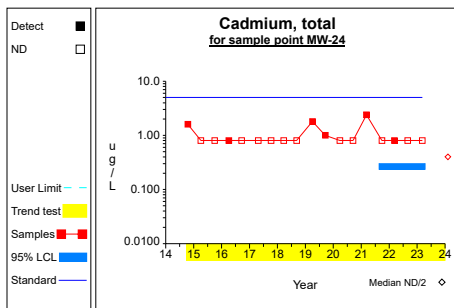
Graph 35



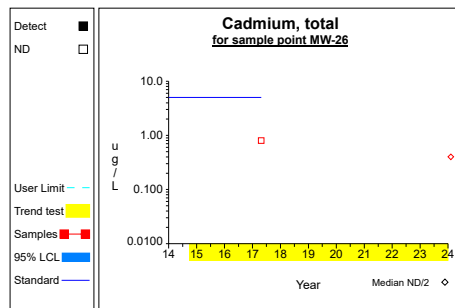
Graph 36



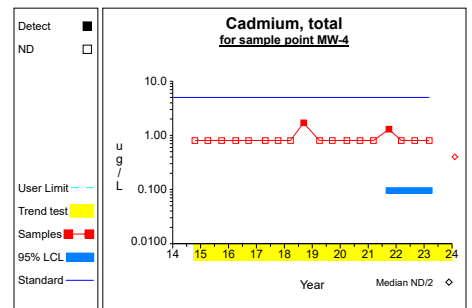
Graph 37



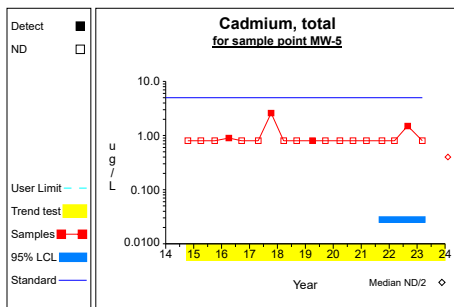
Graph 38



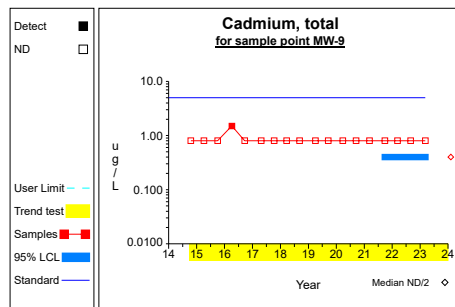
Graph 39



Graph 40

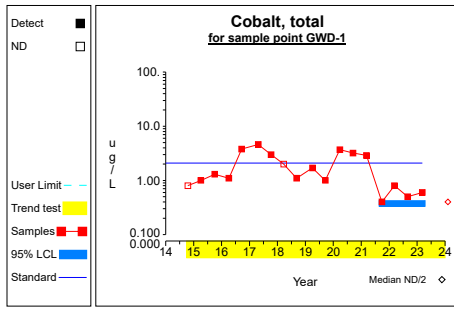


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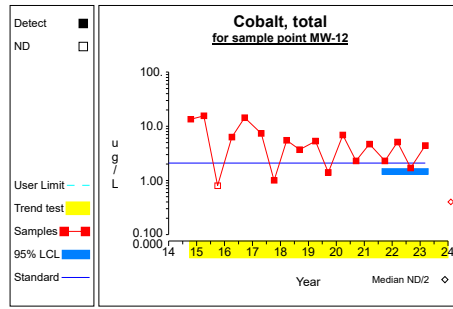


Graph 42

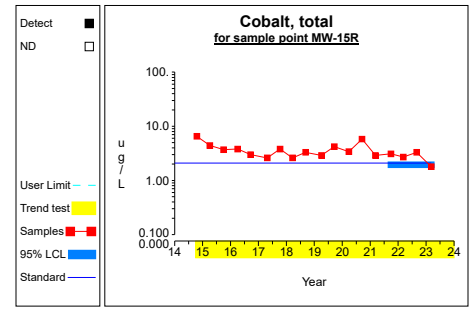
Confidence Limits (Assessment)



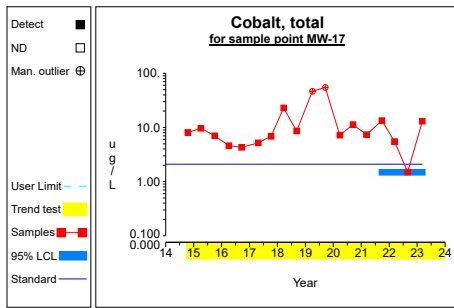
Graph 43



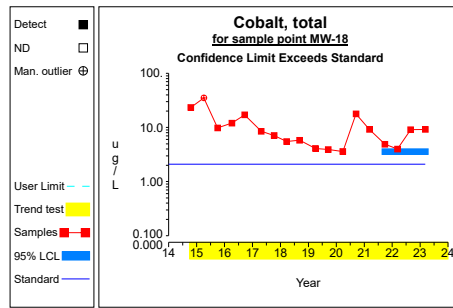
Graph 44



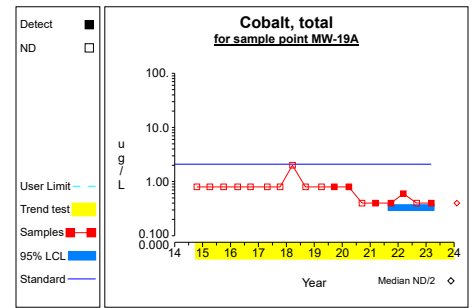
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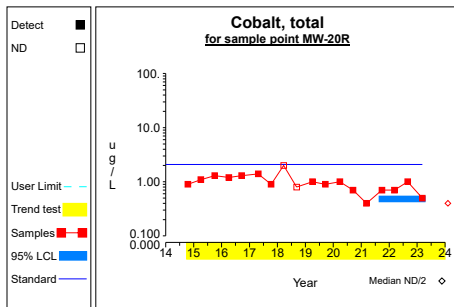
Graph 46



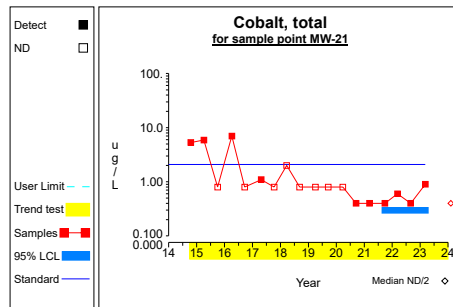
Graph 47



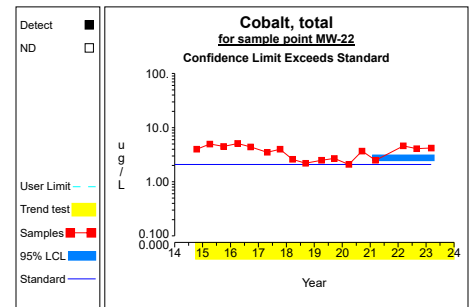
Graph 48



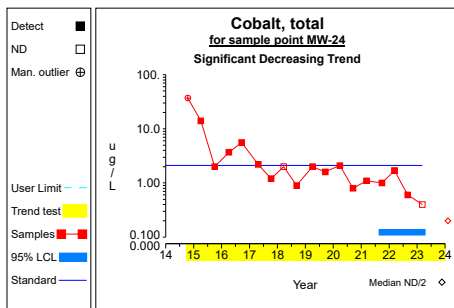
Graph 49



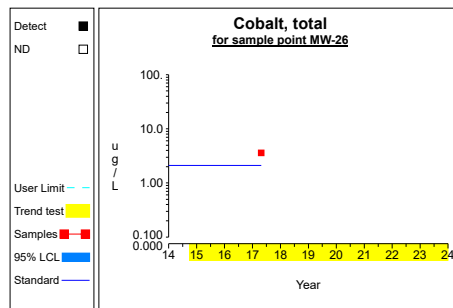
Graph 50



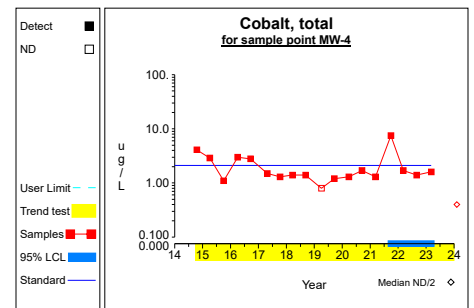
Graph 51



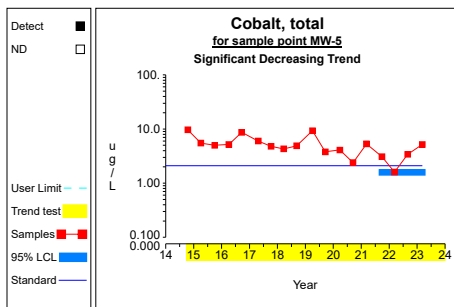
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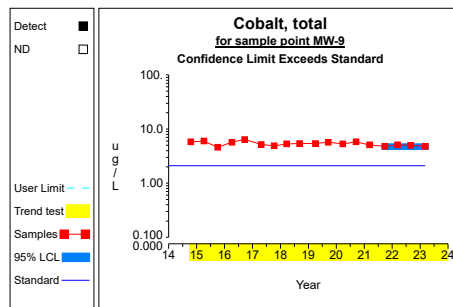
Graph 53



Graph 54

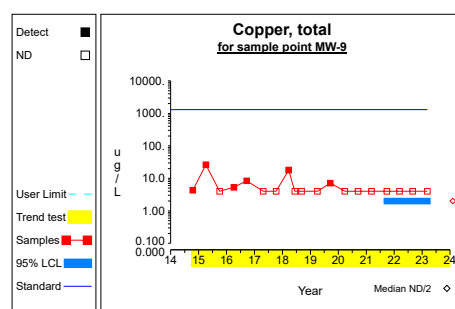
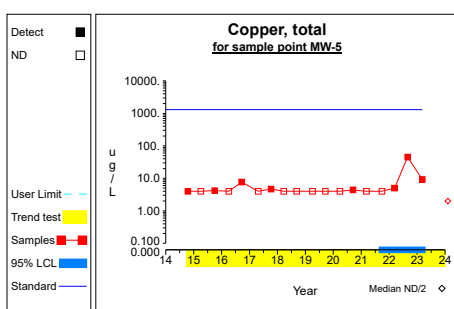
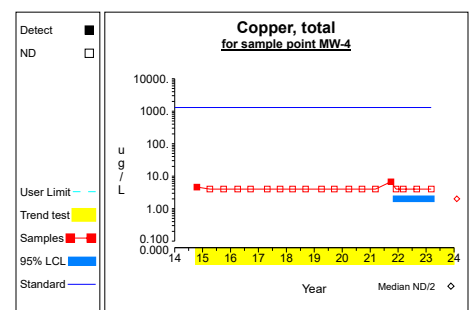
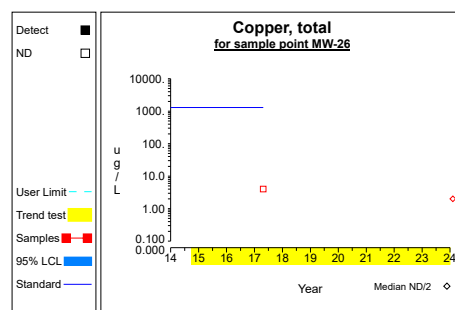
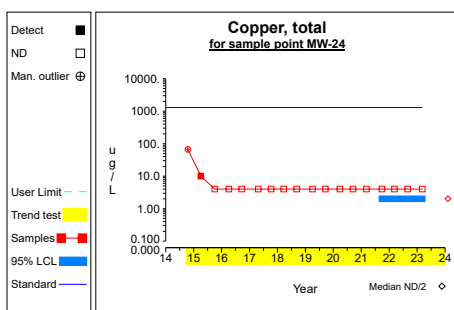
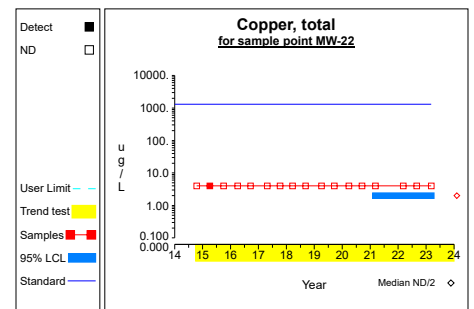
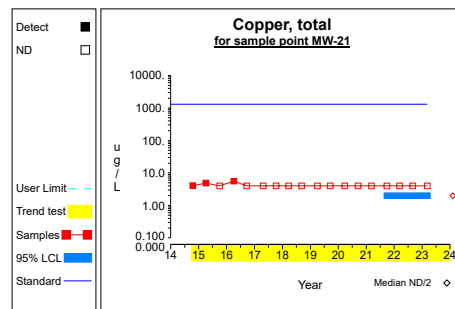
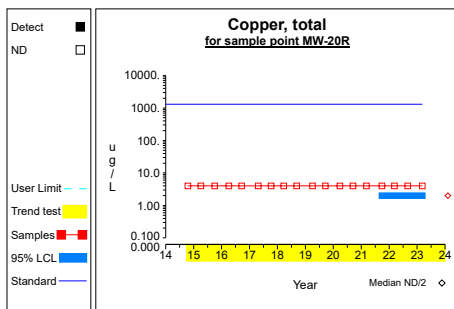
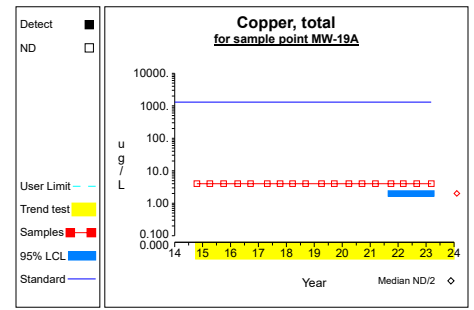
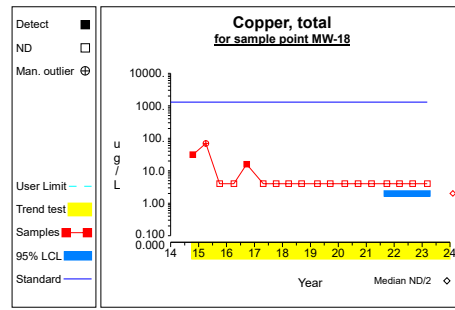
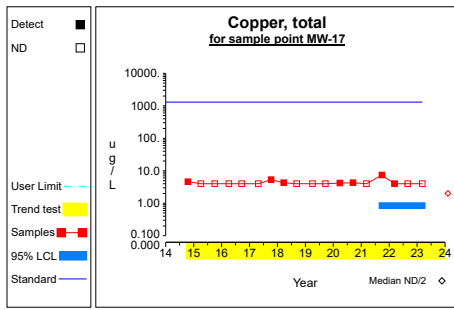
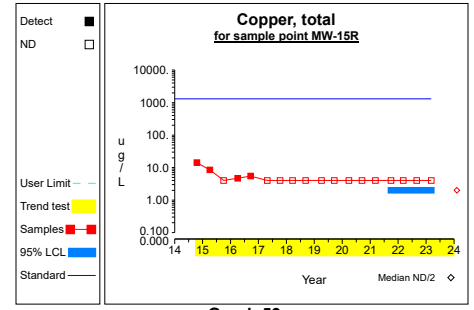
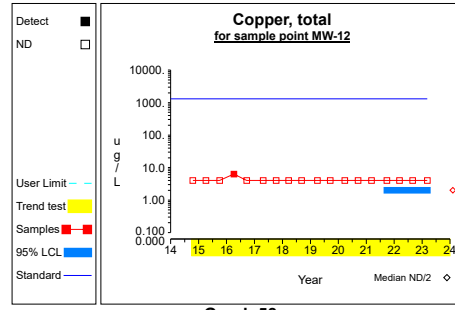
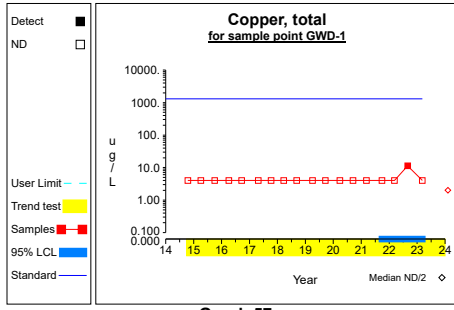


Graph 55

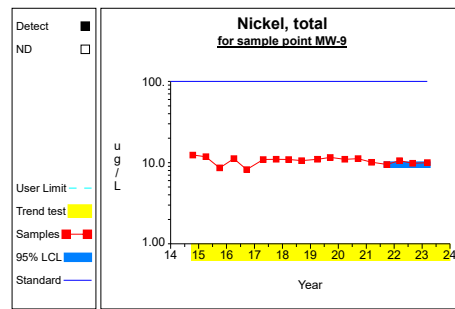
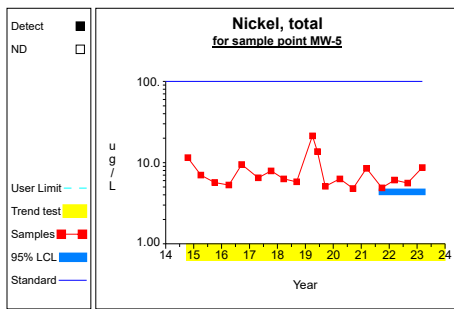
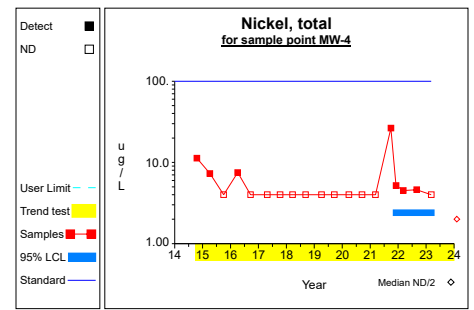
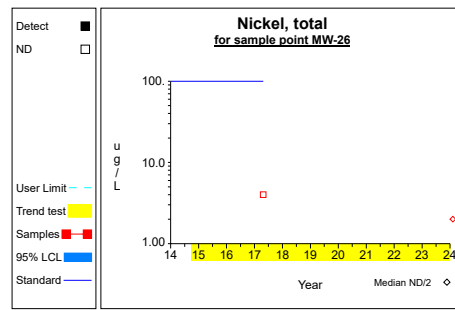
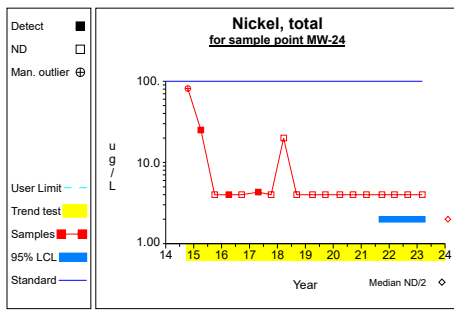
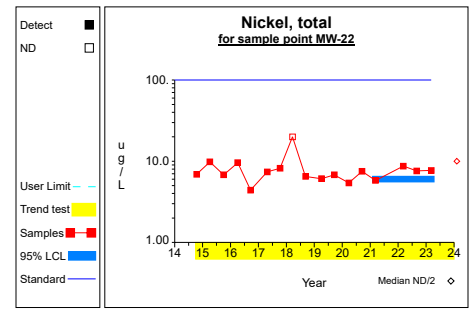
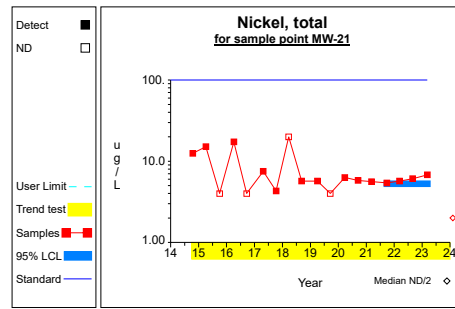
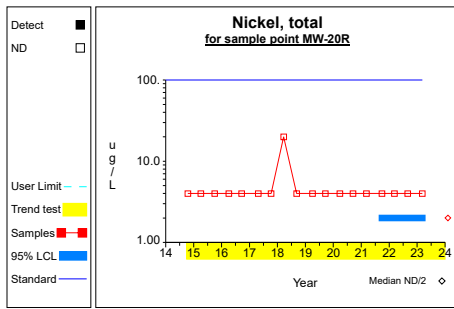
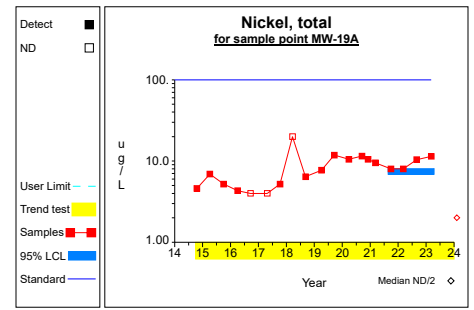
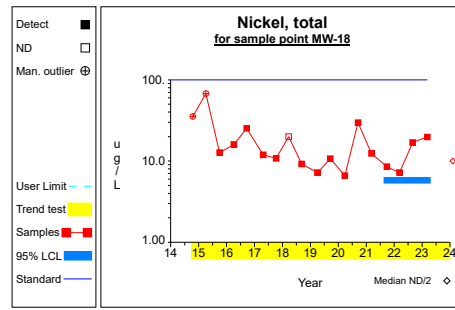
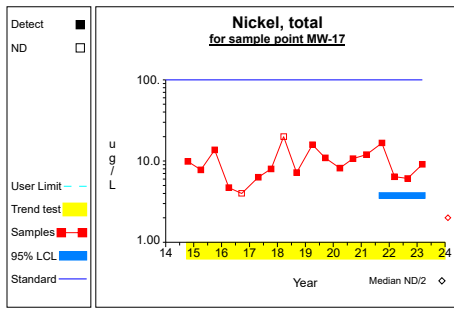
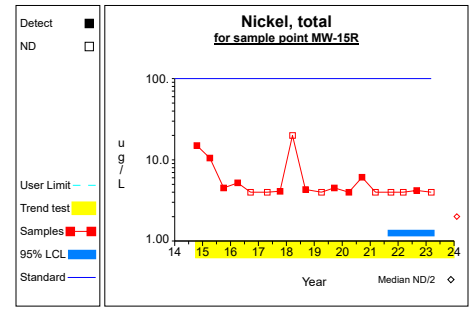
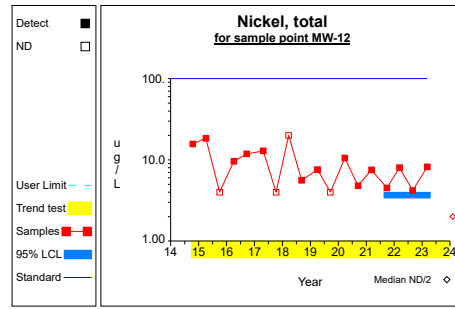
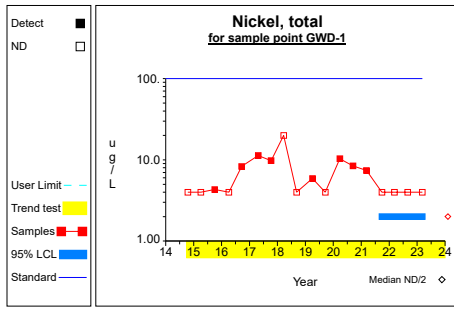


Graph 56

Confidence Limits (Assessment)



Confidence Limits (Assessment)



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, total	ug/L	GWD-1	13	5	34			2.0000	2.0000			2.0000	nonpar	.99	**
Antimony, total	ug/L	MW-12	13	5	35			2.0000	2.0000			2.0000	nonpar	.99	**
Antimony, total	ug/L	MW-15R	13	5	30			2.0000	2.0000			2.0000	nonpar	.99	**
Antimony, total	ug/L	MW-20R	13	5	30			2.0000	2.0000			2.0000	nonpar	.99	**
Antimony, total	ug/L	MW-21	13	5	30			2.0000	2.0000			2.0000	nonpar	.99	**
Antimony, total	ug/L	MW-22	13	4	28			2.0000	2.0000			2.0000	nonpar	.99	**
Antimony, total	ug/L	MW-4	13	5	34			2.0000	2.0000			2.0000	nonpar	.99	**
Antimony, total	ug/L	MW-5	13	5	35			2.0000	2.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	GWD-1	16	5	37	5.6812	1.8904	5.8000	5.3000	5.6812	5.6812	17.9689	normal		
Arsenic, total	ug/L	MW-12	13	5	35	6.1846	2.8933	18.5000	10.2000	21.6208	23.4661	24.9913	normal		
Arsenic, total	ug/L	MW-15R	13	5	30	28.6385	7.9813	19.7000	21.5000	28.6385	28.6385	80.5168	normal		
Arsenic, total	ug/L	MW-20R	12	5	30	45.5667	19.8645	49.0000	43.0000	45.5667	45.5667	174.6860	normal		
Arsenic, total	ug/L	MW-21	13	5	30	5.9769	2.2170	4.0000	30.5000	5.9769	28.8372	20.3877	normal		
Arsenic, total	ug/L	MW-22	13	4	28	90.7692	98.6890	36.0000	95.5000	90.7692	90.7692	732.2477	normal		
Arsenic, total	ug/L	MW-4	13	5	34	60.8538	13.9042	93.6000	50.8000	83.1718	62.6898	151.2314	normal		
Arsenic, total	ug/L	MW-5	13	5	35	19.2769	16.8417	412.0000	83.0000	424.3524	95.3524	128.7478	normal		
Barium, total	ug/L	GWD-1	14	5	35	146.1000	50.8844	252.0000	199.0000	213.8367	228.5734	476.8488	normal		
Barium, total	ug/L	MW-12	13	5	35	396.8462	79.3304	311.0000	450.0000	396.8462	396.8462	912.4936	normal		
Barium, total	ug/L	MW-15R	13	5	30	499.6923	68.6384	384.0000	393.0000	499.6923	499.6923	945.8419	normal		
Barium, total	ug/L	MW-20R	13	5	30	827.3846	158.7737	599.0000	599.0000	827.3846	827.3846	1859.4137	normal		
Barium, total	ug/L	MW-21	13	5	30	689.6154	430.9446	450.0000	1420.0000	689.6154	1096.7915	3490.7553	normal		
Barium, total	ug/L	MW-22	13	4	28	335.3846	53.2127	307.0000	367.0000	343.7964	335.5022	681.2671	normal		
Barium, total	ug/L	MW-4	13	5	34	1298.4615	216.7889	995.0000	890.0000	1298.4615	1298.4615	2707.5895	normal		
Barium, total	ug/L	MW-5	13	5	35	188.3846	32.6408	400.0000	460.0000	424.9237	484.9237	400.5499	normal		
Beryllium, total	ug/L	GWD-1	13	5	34			4.0000	4.0000			4.0000	nonpar	.99	**
Beryllium, total	ug/L	MW-12	13	5	35			4.0000	4.0000			4.0000	nonpar	.99	**
Beryllium, total	ug/L	MW-15R	13	5	30			4.0000	4.0000			4.0000	nonpar	.99	**
Beryllium, total	ug/L	MW-20R	13	5	30			4.0000	4.0000			4.0000	nonpar	.99	**
Beryllium, total	ug/L	MW-21	13	5	30			4.0000	4.0000			4.0000	nonpar	.99	**
Beryllium, total	ug/L	MW-22	13	4	28			4.0000	4.0000			4.0000	nonpar	.99	**
Beryllium, total	ug/L	MW-4	13	5	34			4.0000	4.0000			4.0000	nonpar	.99	**
Beryllium, total	ug/L	MW-5	13	5	35			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	GWD-1	13	5	34			0.8000	0.8000			0.8000	nonpar	.99	**
Cadmium, total	ug/L	MW-12	13	5	35			0.8000	0.8000			1.6000	nonpar	.99	**
Cadmium, total	ug/L	MW-15R	13	5	30			0.8000	0.8000			0.8000	nonpar	.99	**
Cadmium, total	ug/L	MW-20R	13	5	30			0.8000	0.8000			0.8000	nonpar	.99	**
Cadmium, total	ug/L	MW-21	13	5	30	0.9000	0.2769	0.8000	0.8000	0.9000	0.9000	2.6998	normal		
Cadmium, total	ug/L	MW-22	13	4	28			0.8000	1.0000			1.2000	nonpar	.99	**
Cadmium, total	ug/L	MW-4	13	5	34			0.8000	0.8000			1.7000	nonpar	.99	**
Cadmium, total	ug/L	MW-5	13	5	35			1.5000	0.8000			2.6000	nonpar	.99	**
Chromium, total	ug/L	GWD-1	13	5	34			8.0000	8.0000			8.0000	nonpar	.99	**
Chromium, total	ug/L	MW-12	13	5	35			8.0000	8.0000			8.0000	nonpar	.99	**
Chromium, total	ug/L	MW-15R	13	5	30			8.0000	8.0000			13.7000	nonpar	.99	**
Chromium, total	ug/L	MW-20R	13	5	30			8.0000	8.0000			8.0000	nonpar	.99	**
Chromium, total	ug/L	MW-21	13	5	30			8.0000	8.0000			8.0000	nonpar	.99	**
Chromium, total	ug/L	MW-22	13	4	28			8.0000	8.0000			8.0000	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	
Chromium, total	ug/L	MW-4	13	5	34			8.0000	8.0000			8.0000	nonpar	.99	**
Chromium, total	ug/L	MW-5	13	5	35			8.0000	8.0000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	GWD-1	13	5	34	2.0846	1.3637	0.5000	0.6000	2.0846	2.0846	10.9488	normal		
Cobalt, total	ug/L	MW-12	13	5	35	6.4692	5.0981	1.7000	4.4000	6.4692	6.4692	39.6069	normal		
Cobalt, total	ug/L	MW-15R	13	5	30	3.8462	1.1738	3.3000	1.8000	3.8462	3.8462	11.4755	normal		
Cobalt, total	ug/L	MW-20R	13	5	30	1.0231	0.2204	1.0000	0.5000	1.0231	1.0231	2.4559	normal		
Cobalt, total	ug/L	MW-21	13	5	30	2.0077	2.3450	0.4000	0.9000	2.0077	2.0077	17.2503	normal		
Cobalt, total	ug/L	MW-22	13	4	28	3.5615	1.0492	4.1000	4.2000	3.5646	3.5615	10.3816	normal		
Cobalt, total	ug/L	MW-4	13	5	34	1.8846	0.9839	1.4000	1.6000	4.6170	3.5944	8.2800	normal		
Cobalt, total	ug/L	MW-5	13	5	35	5.6692	2.2228	3.4000	5.2000	5.6692	5.6692	20.1171	normal		
Copper, total	ug/L	GWD-1	13	5	34			11.3000	4.0000			4.0000	nonpar	.99	**
Copper, total	ug/L	MW-12	13	5	35			4.0000	4.0000			6.3000	nonpar	.99	**
Copper, total	ug/L	MW-15R	12	5	30	4.5583	1.3228	4.0000	4.0000	4.5583	4.5583	13.1568	normal		
Copper, total	ug/L	MW-20R	13	5	30			4.0000	4.0000			4.0000	nonpar	.99	**
Copper, total	ug/L	MW-21	13	5	30			4.0000	4.0000			5.6000	nonpar	.99	**
Copper, total	ug/L	MW-22	13	4	28			4.0000	4.0000			4.0000	nonpar	.99	**
Copper, total	ug/L	MW-4	13	6	35			4.0000	4.0000			4.6000	nonpar	.99	**
Copper, total	ug/L	MW-5	13	5	35	4.3846	1.0189	45.5000	9.2000	44.7359	8.4359	11.0072	normal		
Lead, total	ug/L	GWD-1	13	5	34			4.0000	4.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	MW-12	13	5	35			4.0000	4.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	MW-15R	13	5	30			4.0000	4.0000			10.0000	nonpar	.99	**
Lead, total	ug/L	MW-20R	13	5	30			4.0000	4.0000			4.1000	nonpar	.99	**
Lead, total	ug/L	MW-21	13	5	30			4.0000	4.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	MW-22	13	4	28			4.0000	4.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	MW-4	13	5	34			4.0000	4.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	MW-5	13	5	35			4.0000	4.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	GWD-1	13	5	34	6.3308	2.8511	4.0000	4.0000	6.3308	6.3308	24.8632	normal		
Nickel, total	ug/L	MW-12	13	5	35	8.6846	4.9056	4.2000	8.2000	8.6846	8.6846	40.5709	normal		
Nickel, total	ug/L	MW-15R	11	5	30	5.0182	1.9312	4.2000	4.0000	5.0182	5.0182	17.5712	normal		
Nickel, total	ug/L	MW-20R	13	5	30			4.0000	4.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	MW-21	13	5	30	7.4000	4.5527	6.1000	6.8000	7.4000	7.4000	36.9923	normal		
Nickel, total	ug/L	MW-22	13	4	28	8.1077	3.8727	7.6000	7.7000	8.1077	8.1077	33.2799	normal		
Nickel, total	ug/L	MW-4	13	6	35			4.6000	4.0000			11.3000	nonpar	.99	**
Nickel, total	ug/L	MW-5	14	5	36	8.3429	4.5574	5.6000	8.7000	8.3429	8.3429	37.9663	normal		
Selenium, total	ug/L	GWD-1	13	5	34			4.0000	4.0000			4.0000	nonpar	.99	**
Selenium, total	ug/L	MW-12	13	5	35			4.0000	4.0000			4.0000	nonpar	.99	**
Selenium, total	ug/L	MW-15R	13	5	30			4.0000	4.0000			4.0000	nonpar	.99	**
Selenium, total	ug/L	MW-20R	13	5	30			4.0000	4.0000			4.0000	nonpar	.99	**
Selenium, total	ug/L	MW-21	13	5	30			4.0000	4.0000			4.0000	nonpar	.99	**
Selenium, total	ug/L	MW-22	13	4	28			4.0000	4.0000			4.0000	nonpar	.99	**
Selenium, total	ug/L	MW-4	13	5	34			4.0000	4.0000			4.0000	nonpar	.99	**
Selenium, total	ug/L	MW-5	13	5	35			4.0000	4.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	GWD-1	13	5	34			4.0000	4.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW-12	13	5	35			4.0000	4.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW-15R	13	5	30			4.0000	4.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW-20R	13	5	30			4.0000	4.0000			4.0000	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	
Silver, total	ug/L	MW-21	13	5	30			4.0000	4.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW-22	13	4	28			4.0000	4.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW-4	13	5	34			4.0000	4.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW-5	13	5	35			4.0000	4.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	GWD-1	13	5	34			2.0000	2.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW-12	13	5	35			2.0000	2.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW-15R	13	5	30			2.0000	2.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW-20R	13	5	30			2.0000	2.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW-21	13	5	30			2.0000	2.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW-22	13	4	28			2.0000	2.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW-4	13	5	34			2.0000	2.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW-5	13	5	35			2.0000	2.0000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	GWD-1	13	5	34			20.0000	20.0000			20.0000	nonpar	.99	**
Vanadium, total	ug/L	MW-12	13	5	35			20.0000	20.0000			20.0000	nonpar	.99	**
Vanadium, total	ug/L	MW-15R	13	5	30			20.0000	20.0000			27.9000	nonpar	.99	**
Vanadium, total	ug/L	MW-20R	13	5	30			20.0000	20.0000			20.0000	nonpar	.99	**
Vanadium, total	ug/L	MW-21	13	5	30			20.0000	20.0000			20.0000	nonpar	.99	**
Vanadium, total	ug/L	MW-22	13	4	28			20.0000	20.0000			20.0000	nonpar	.99	**
Vanadium, total	ug/L	MW-4	13	5	34			20.0000	20.0000			20.0000	nonpar	.99	**
Vanadium, total	ug/L	MW-5	13	5	35			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, total	ug/L	GWD-1	13	5	34			20.0000	20.0000			8.0000	nonpar	.99	**
Zinc, total	ug/L	MW-12	13	5	35			20.0000	20.0000			98.8000	nonpar	.99	**
Zinc, total	ug/L	MW-15R	13	5	30	20.3769	23.4020	20.0000	20.0000	20.3769	20.3769	172.4897	normal		
Zinc, total	ug/L	MW-20R	12	5	30	9.7833	3.2566	20.0000	20.0000	9.7833	9.7833	30.9509	normal		
Zinc, total	ug/L	MW-21	13	5	30	12.8000	9.1223	20.0000	20.0000	12.8000	12.8000	72.0951	normal		
Zinc, total	ug/L	MW-22	13	4	28			20.0000	20.0000			37.0000	nonpar	.99	**
Zinc, total	ug/L	MW-4	13	5	34	25.0077	33.8016	20.0000	20.0000	25.0077	25.0077	244.7180	normal		
Zinc, total	ug/L	MW-5	13	5	35	15.4385	20.1427	20.0000	20.0000	15.4385	15.4385	146.3659	normal		

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 4

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

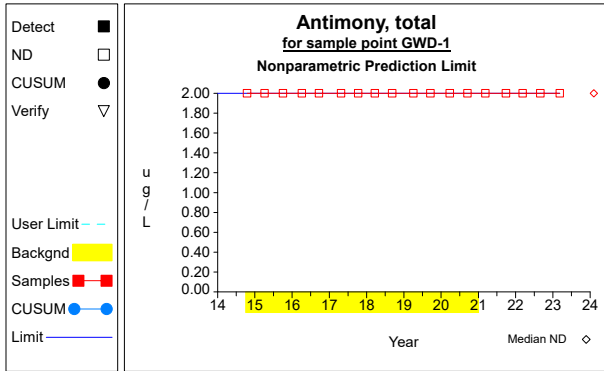
Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Arsenic, total	ug/L	MW-20R	09/07/2018	5.9000		10/16/2014-09/15/2020	13	0.6174
Copper, total	ug/L	MW-15R	10/16/2014	14.2000		10/16/2014-09/15/2020	13	0.6174
Nickel, total	ug/L	MW-15R	10/16/2014	15.0000		10/16/2014-09/15/2020	13	0.6425
Nickel, total	ug/L	MW-15R	03/21/2018	20.0000	< 20.0000	10/16/2014-09/15/2020	13	0.6425
Zinc, total	ug/L	MW-20R	09/07/2018	115.0000		10/16/2014-09/15/2020	13	0.6174

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

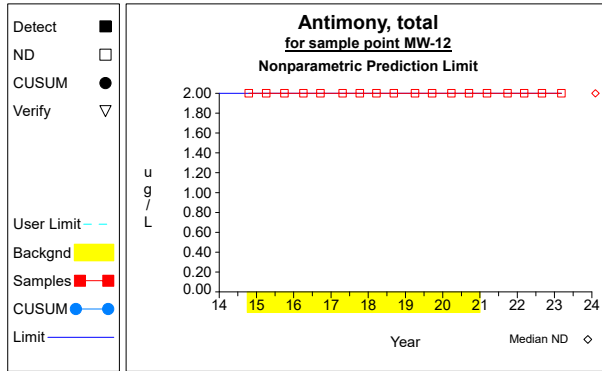
Date Range = Dates of the first and last measurements included in background at each well.

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.

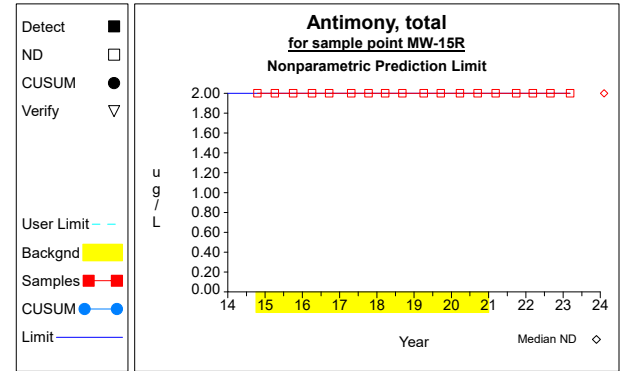
Intra-Well Control Charts / Prediction Limits



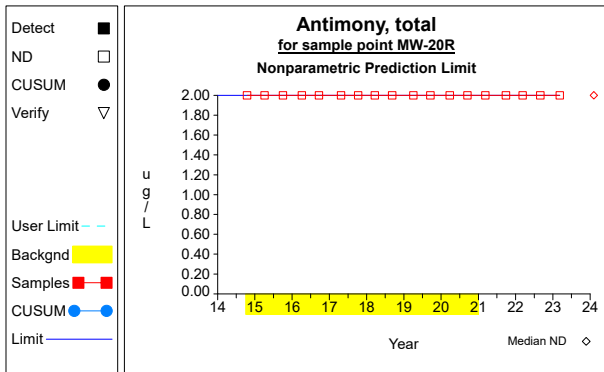
Graph 1



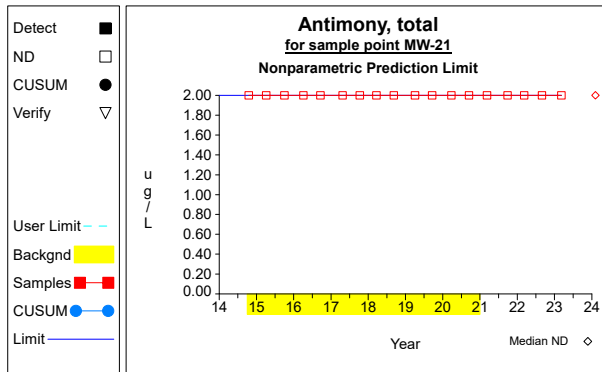
Graph 2



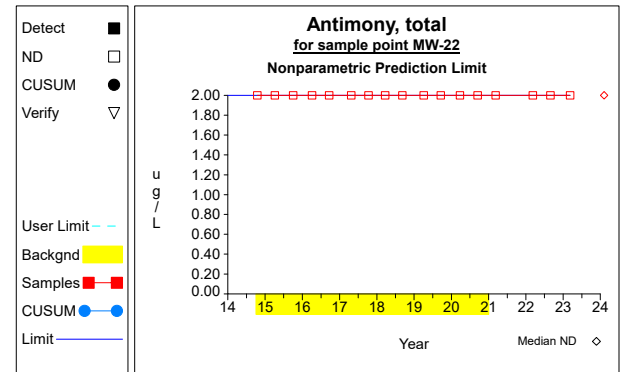
Graph 3



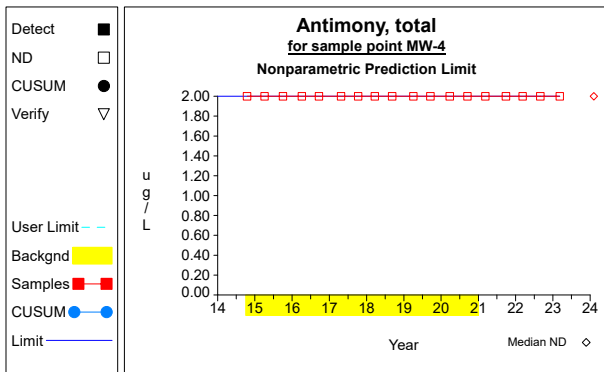
Graph 4



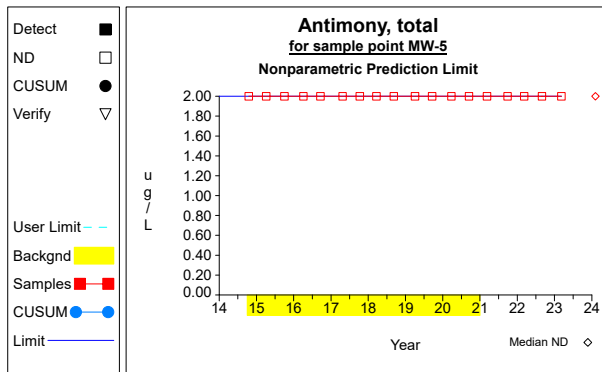
Graph 5



Graph 6

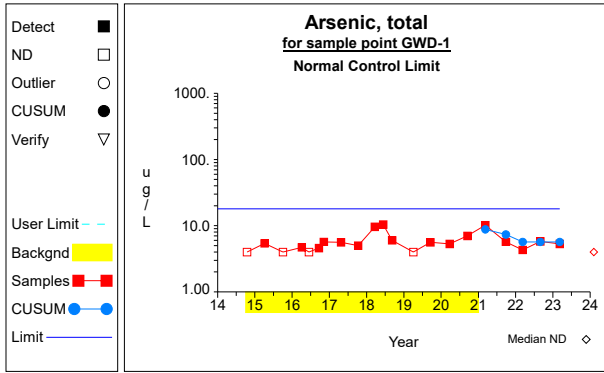


Graph 7

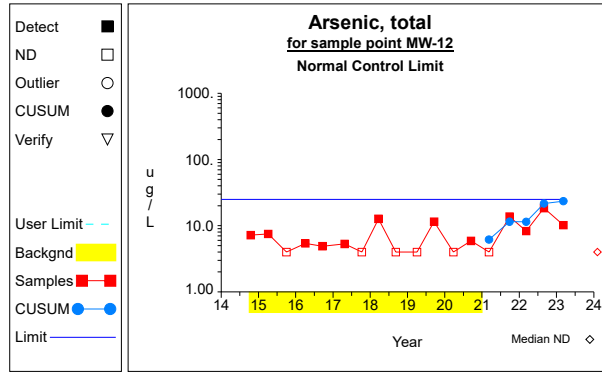


Graph 8

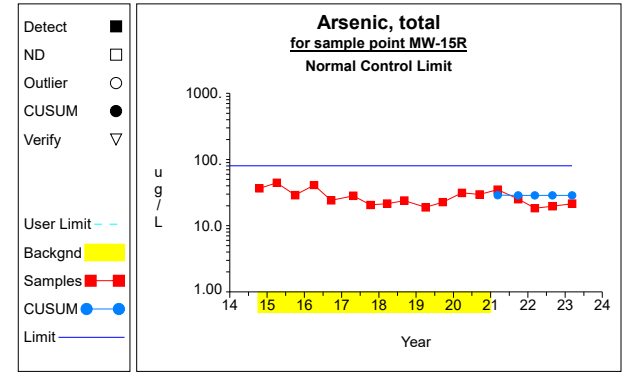
Intra-Well Control Charts / Prediction Limits



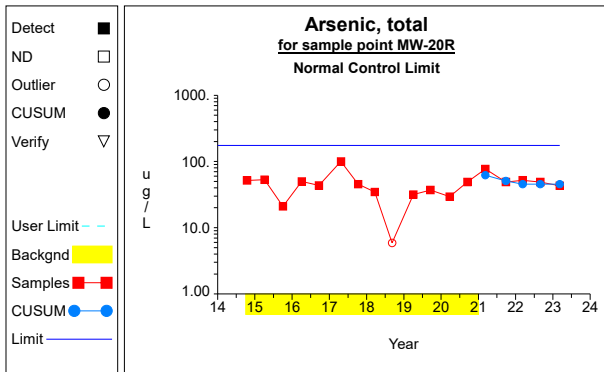
Graph 9



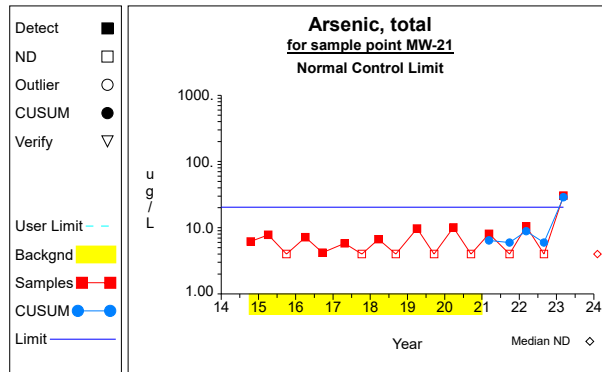
Graph 10



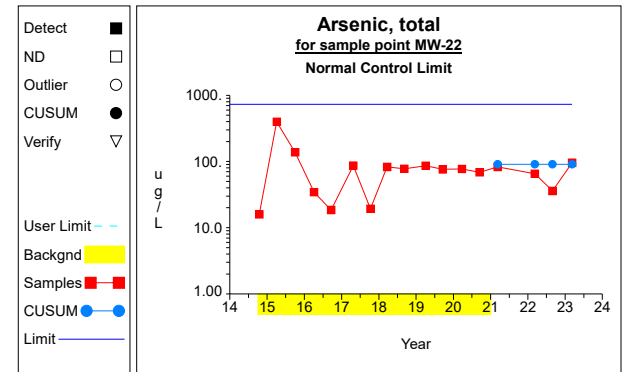
Graph 11



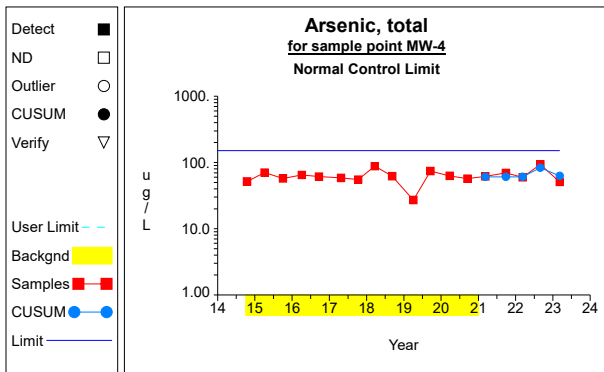
Graph 12



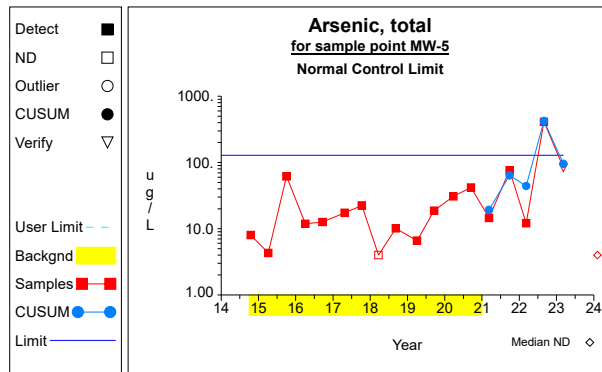
Graph 13



Graph 14

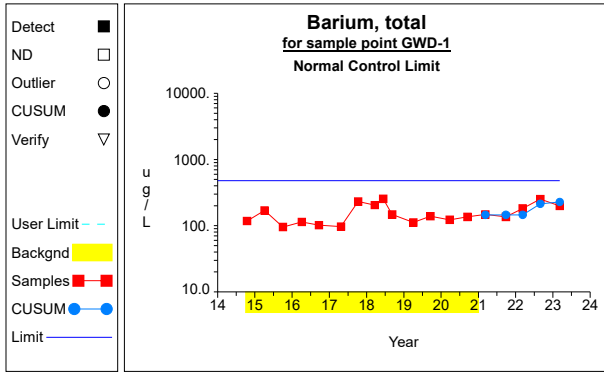


Graph 15

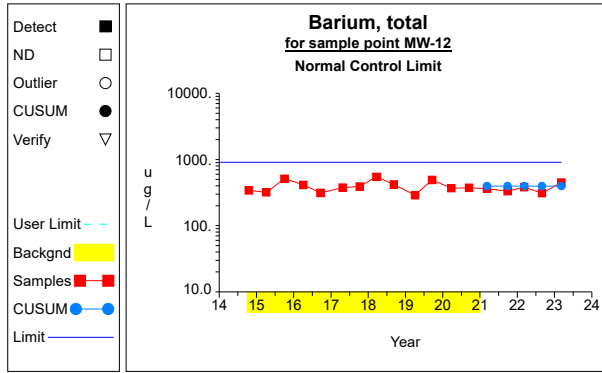


Graph 16

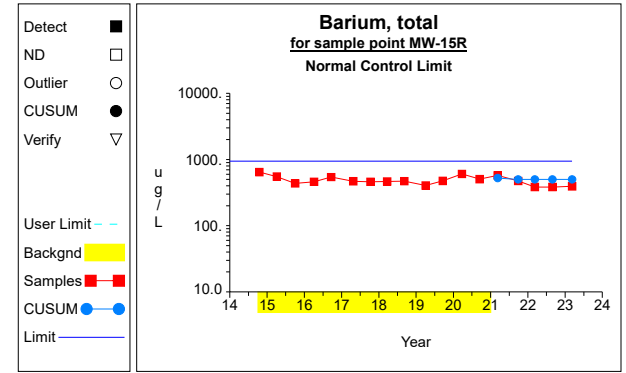
Intra-Well Control Charts / Prediction Limits



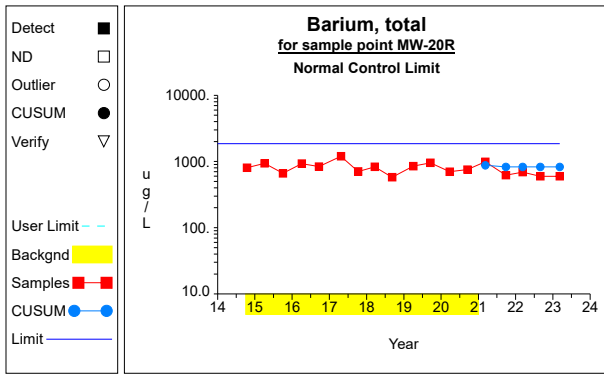
Graph 17



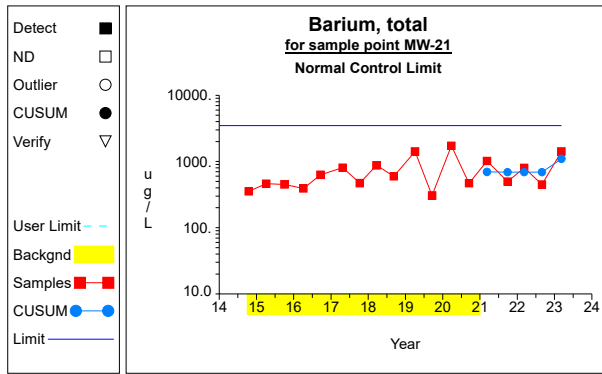
Graph 18



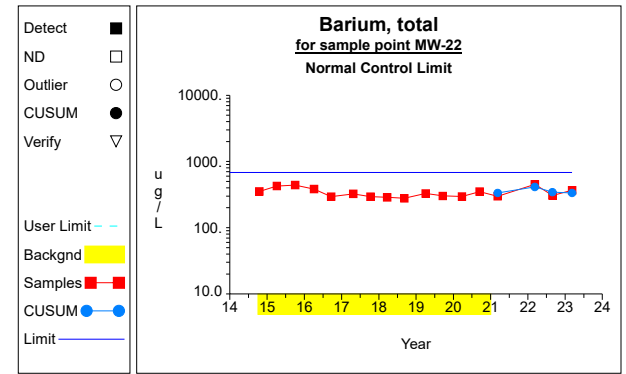
Graph 19



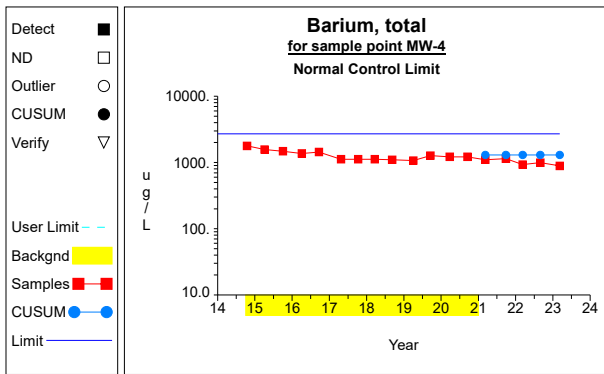
Graph 20



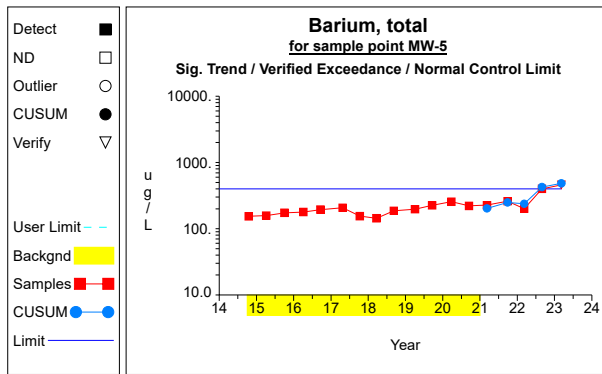
Graph 21



Graph 22

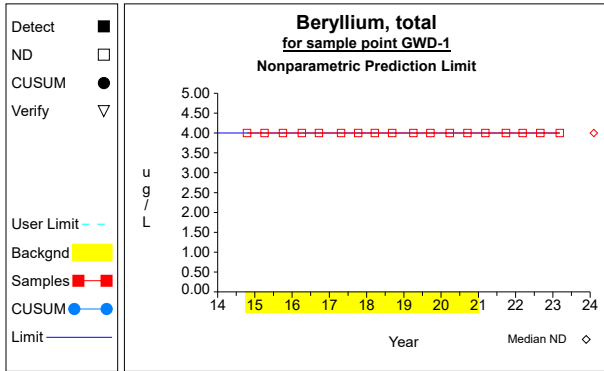


Graph 23

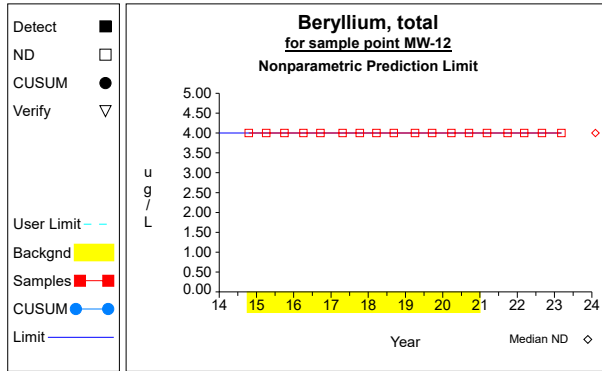


Graph 24

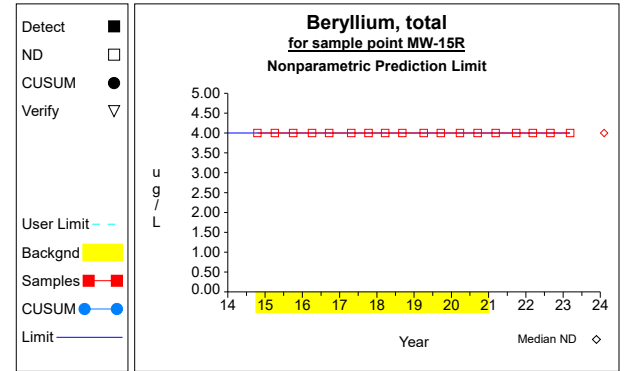
Intra-Well Control Charts / Prediction Limits



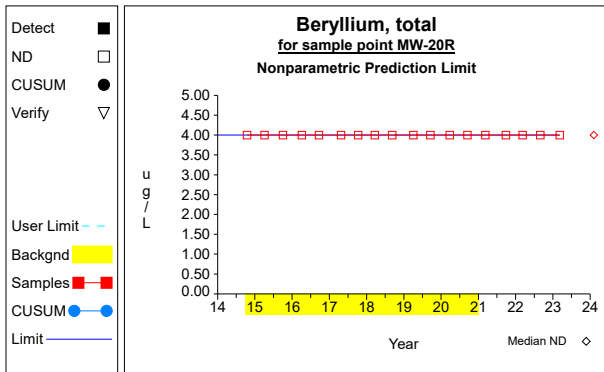
Graph 25



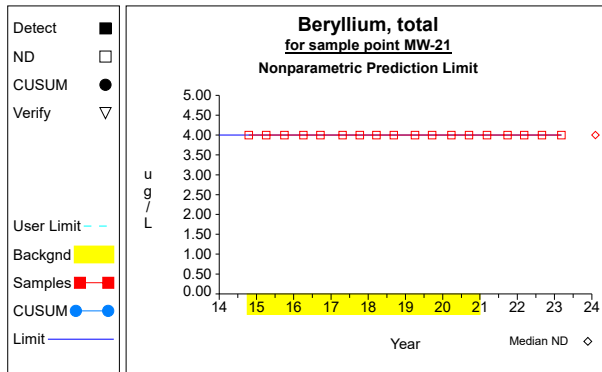
Graph 26



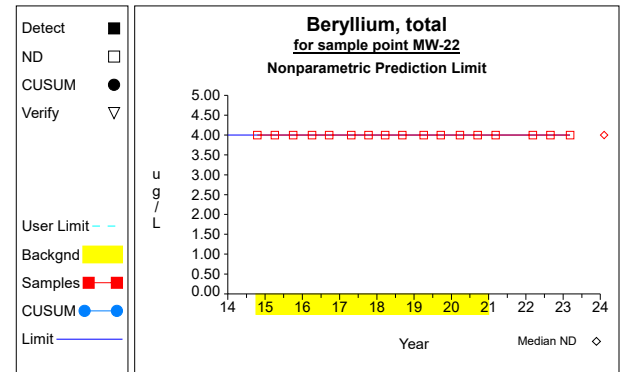
Graph 27



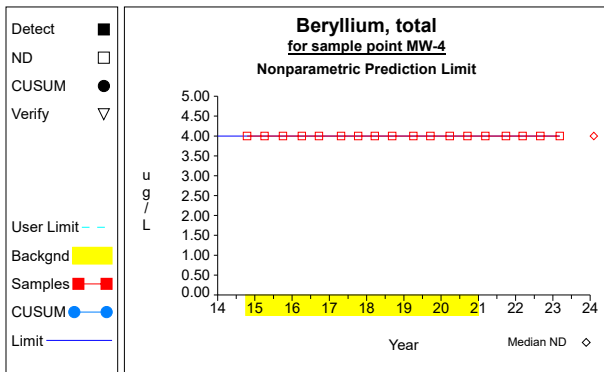
Graph 28



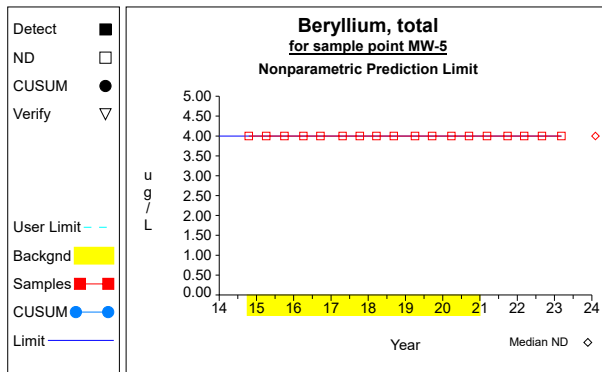
Graph 29



Graph 30

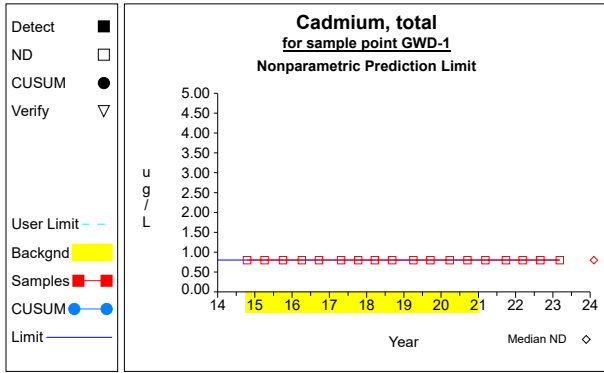


Graph 31

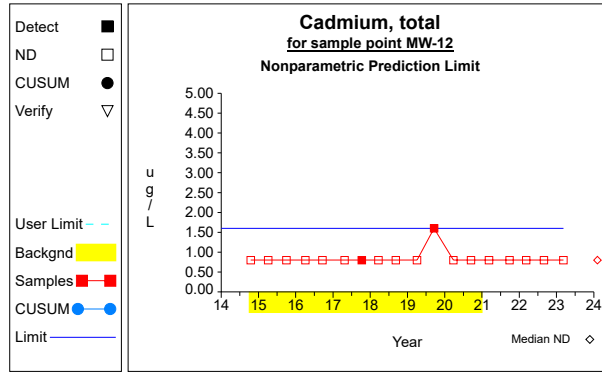


Graph 32

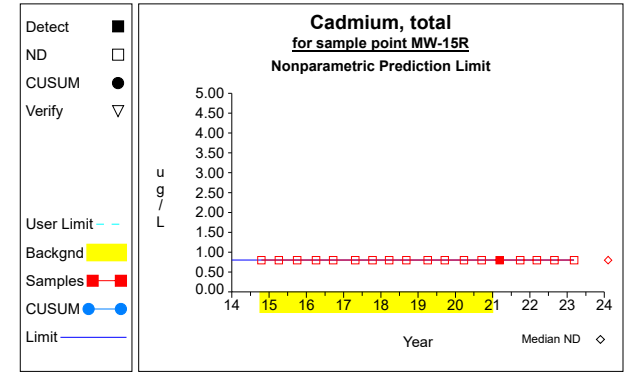
Intra-Well Control Charts / Prediction Limits



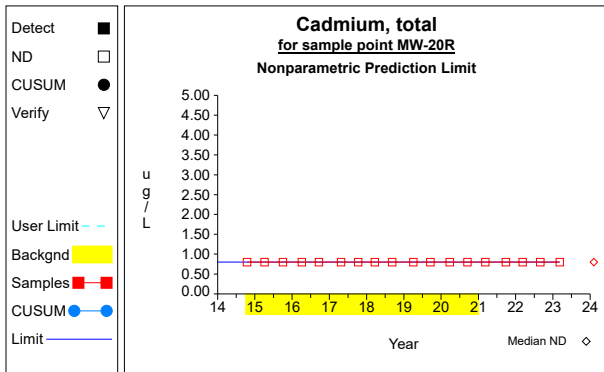
Graph 33



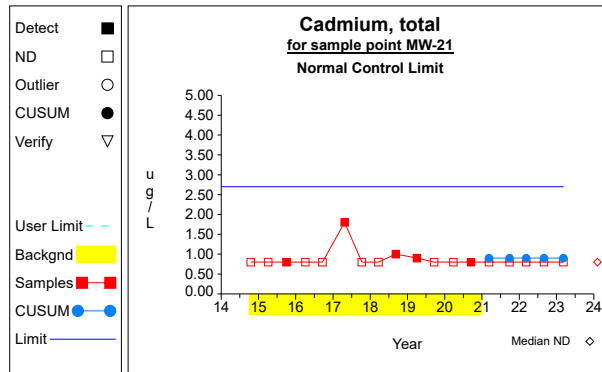
Graph 34



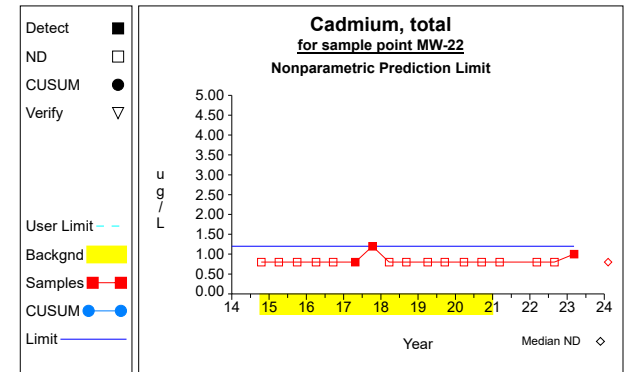
Graph 35



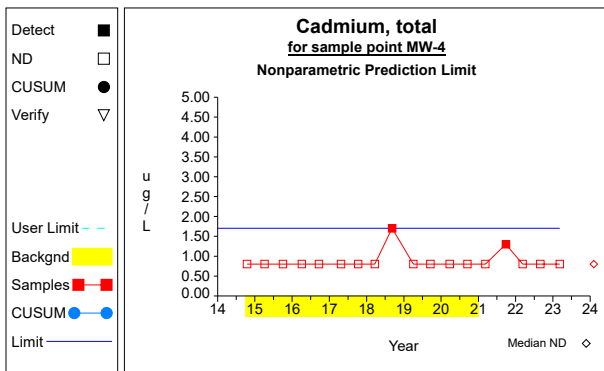
Graph 36



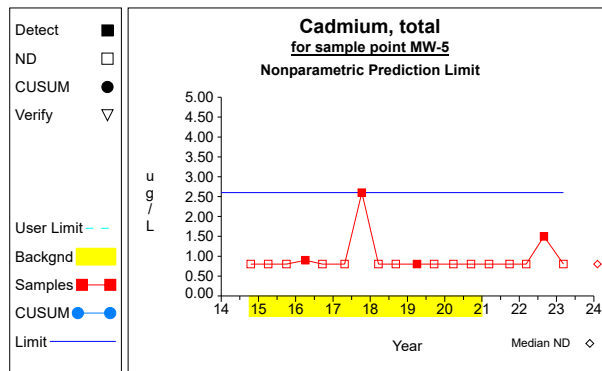
Graph 37



Graph 38

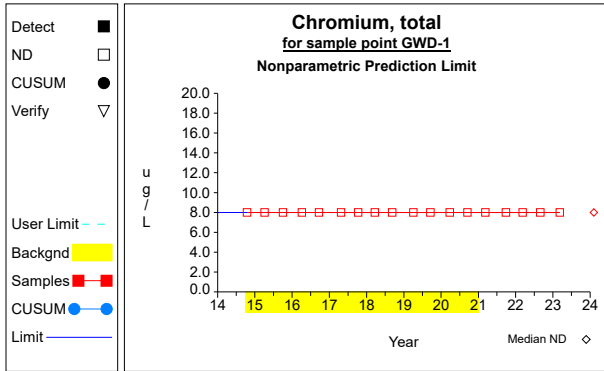


Graph 39

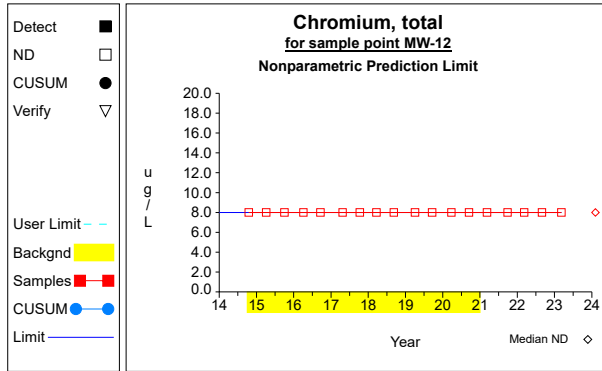


Graph 40

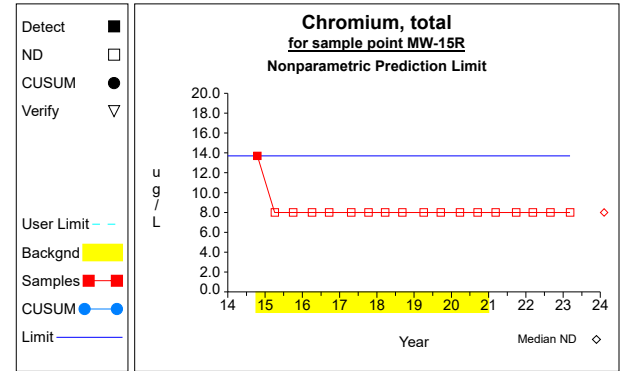
Intra-Well Control Charts / Prediction Limits



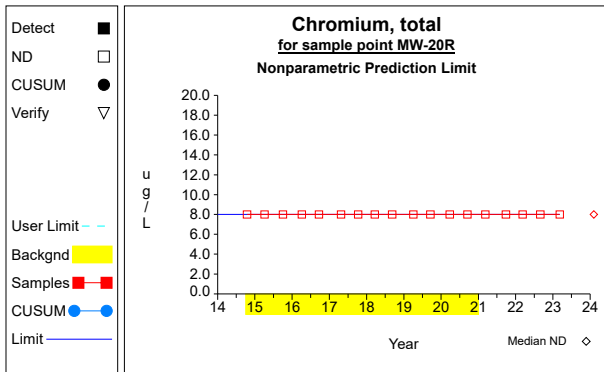
Graph 41



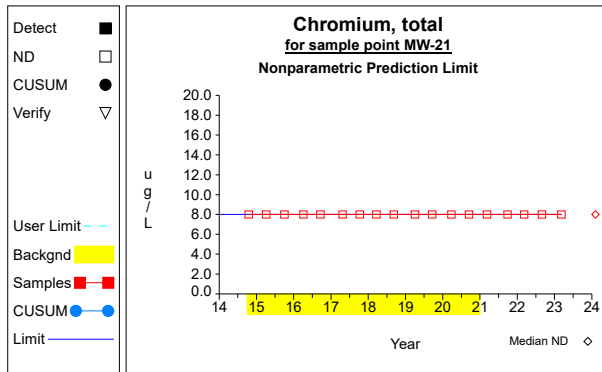
Graph 42



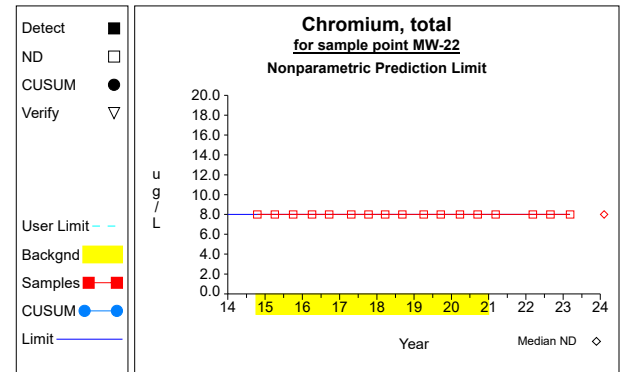
Graph 43



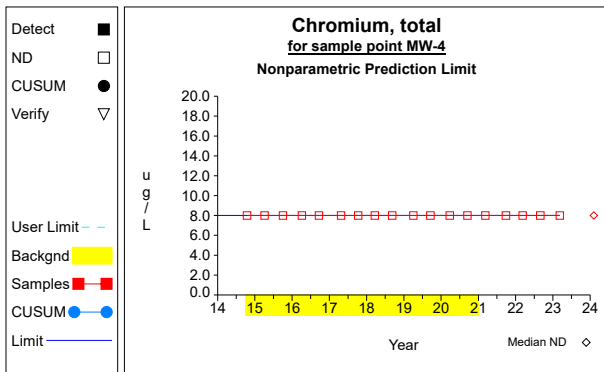
Graph 44



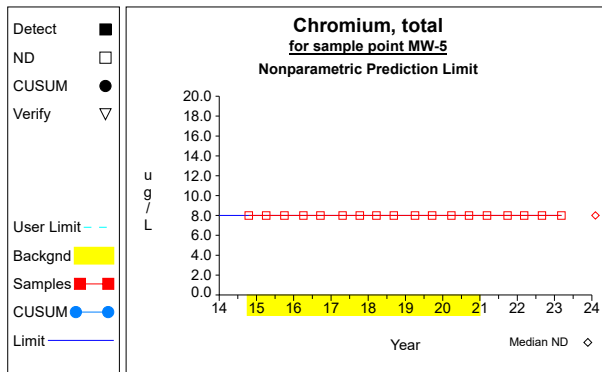
Graph 45



Graph 46

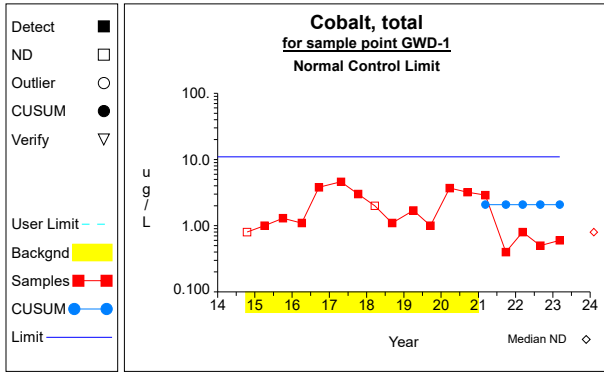


Graph 47

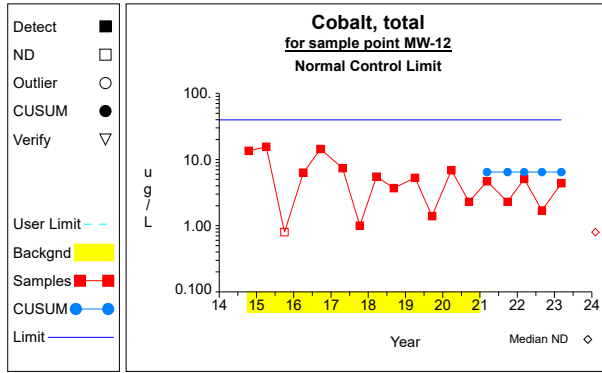


Graph 48

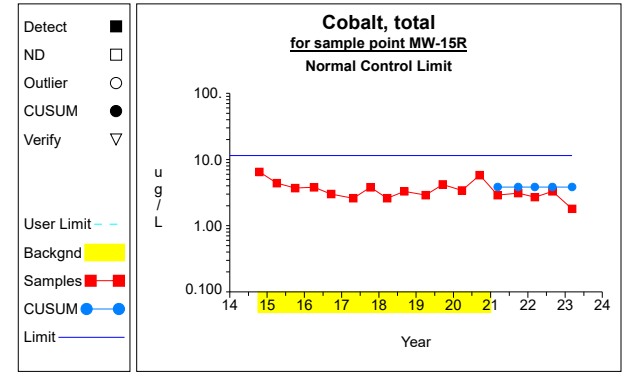
Intra-Well Control Charts / Prediction Limits



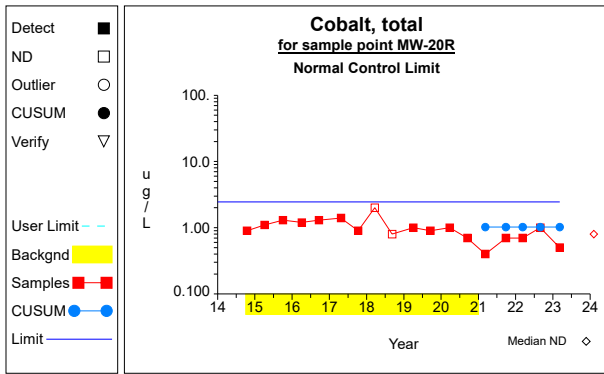
Graph 49



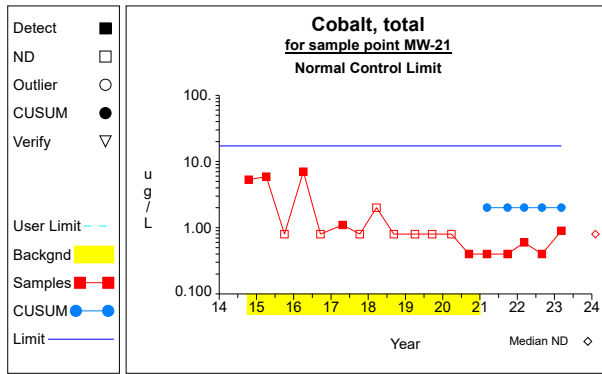
Graph 50



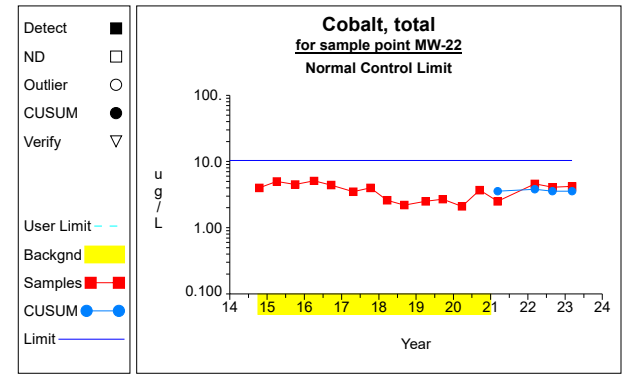
Graph 51



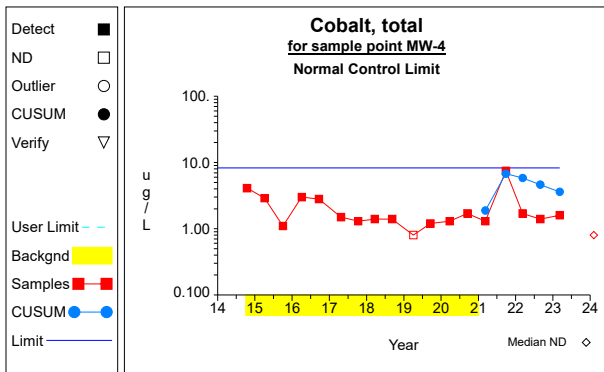
Graph 52



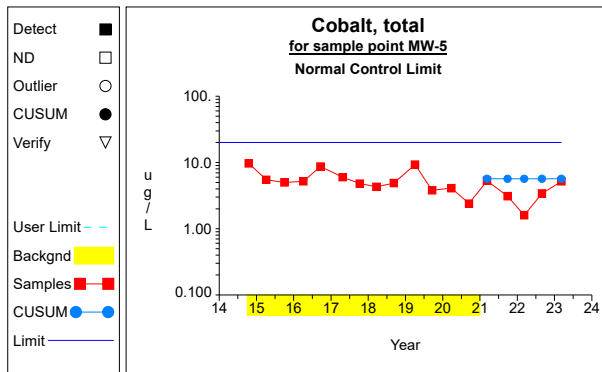
Graph 53



Graph 54

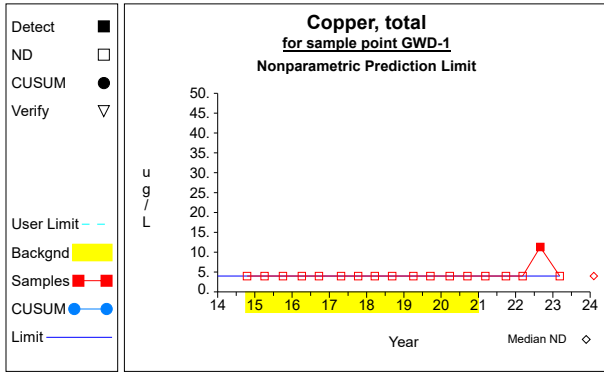


Graph 55

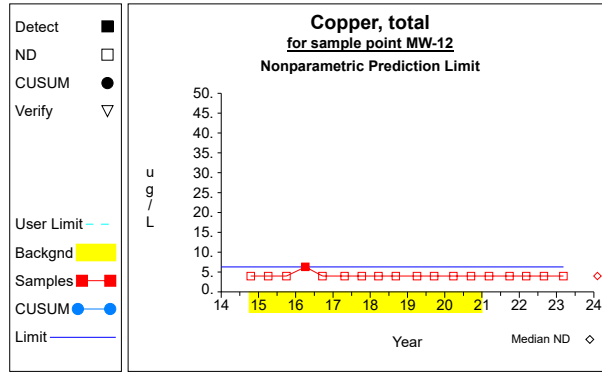


Graph 56

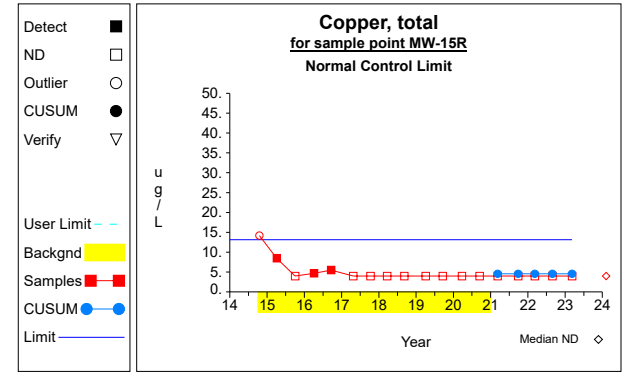
Intra-Well Control Charts / Prediction Limits



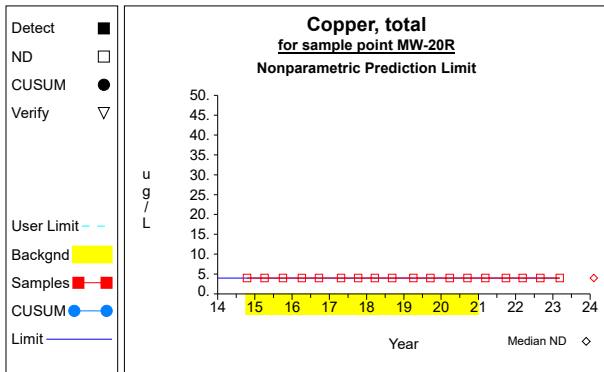
Graph 57



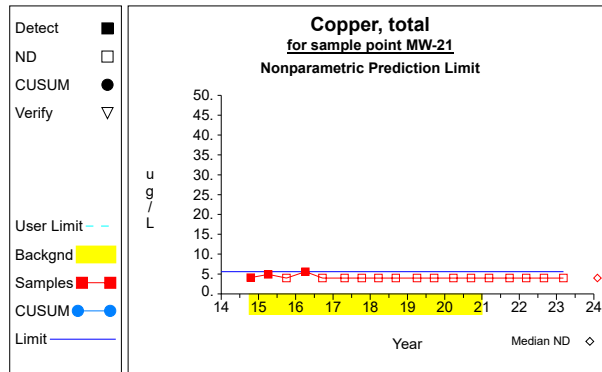
Graph 58



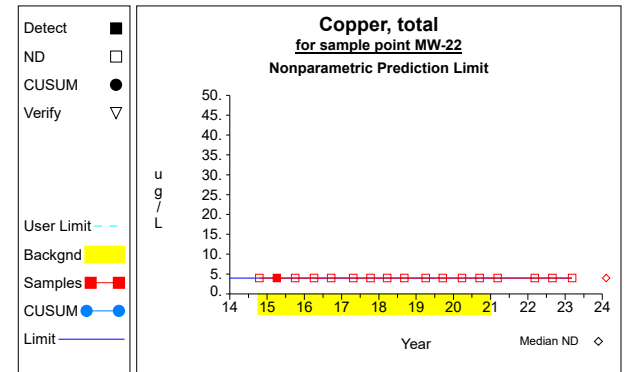
Graph 59



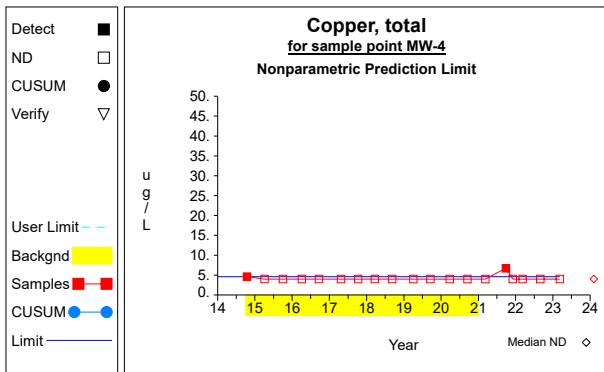
Graph 60



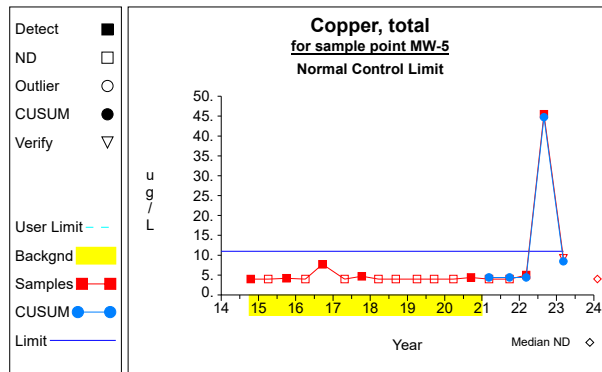
Graph 61



Graph 62

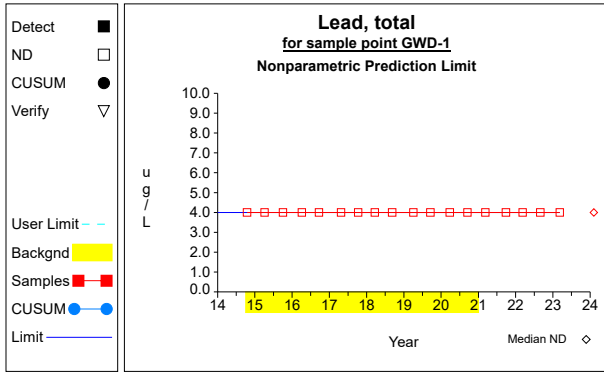


Graph 63

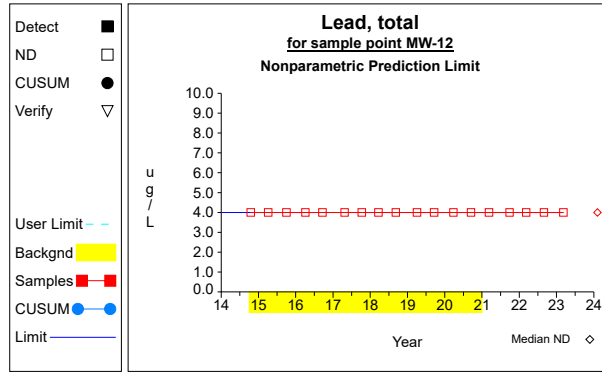


Graph 64

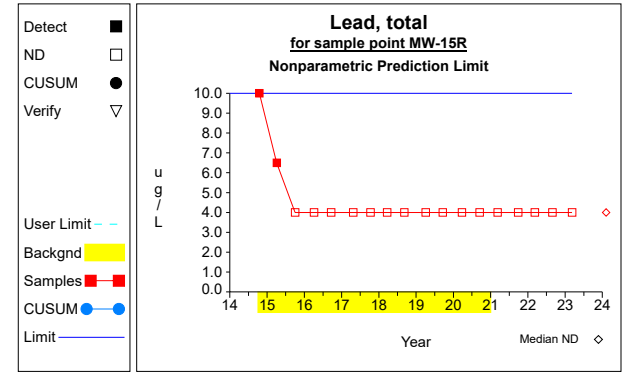
Intra-Well Control Charts / Prediction Limits



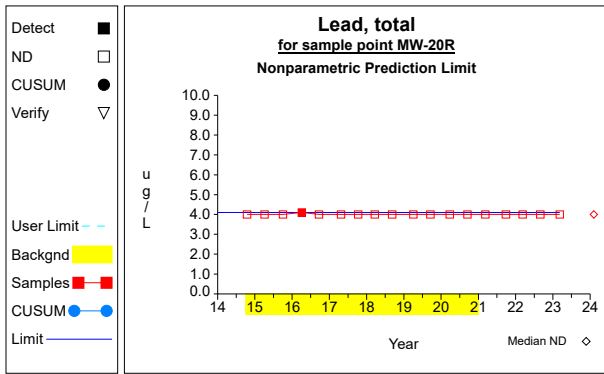
Graph 65



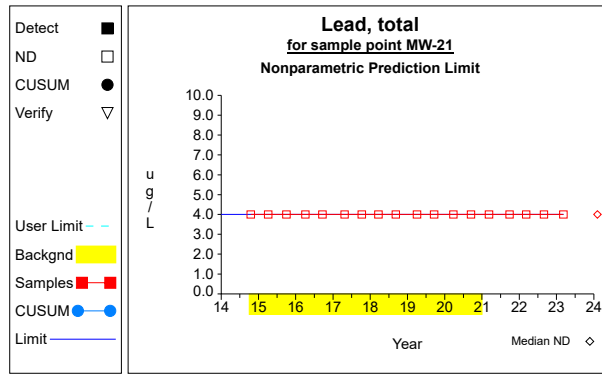
Graph 66



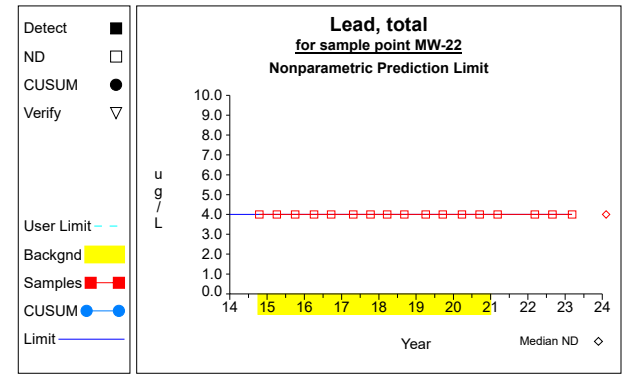
Graph 67



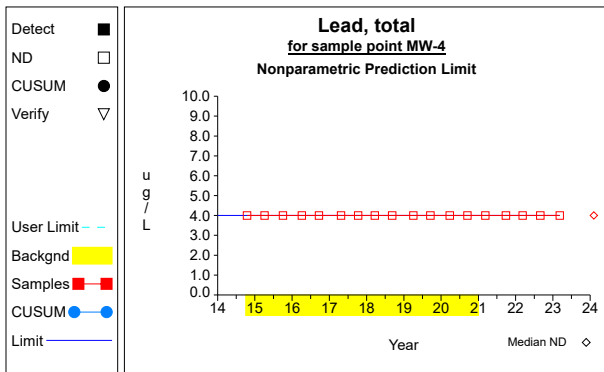
Graph 68



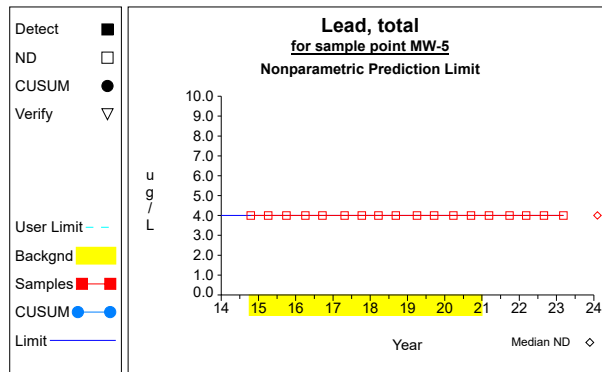
Graph 69



Graph 70

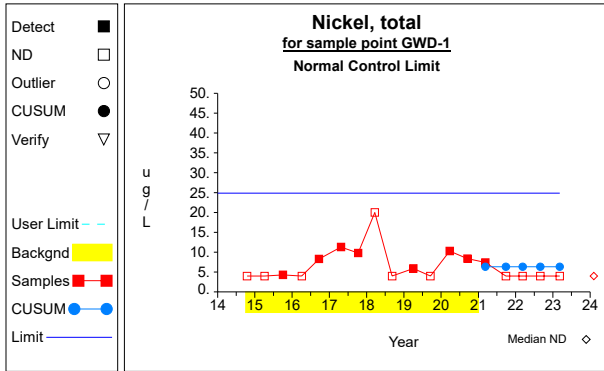


Graph 71

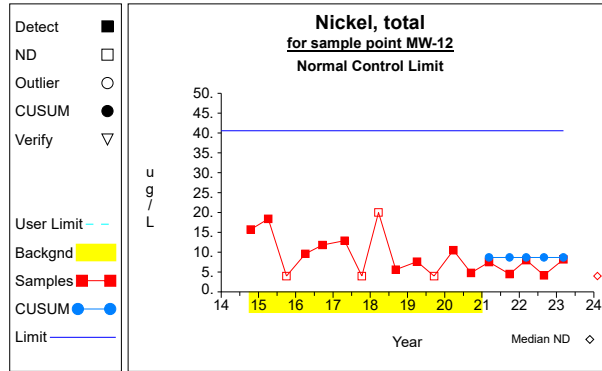


Graph 72

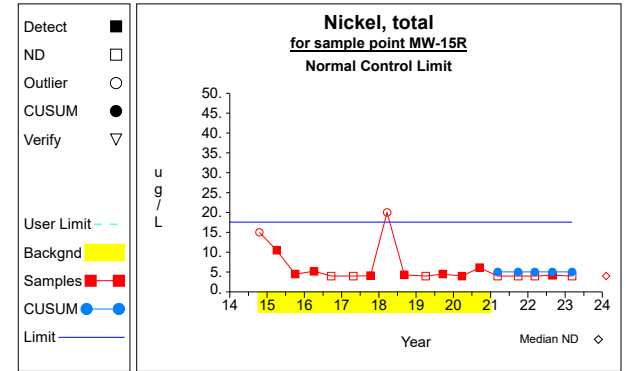
Intra-Well Control Charts / Prediction Limits



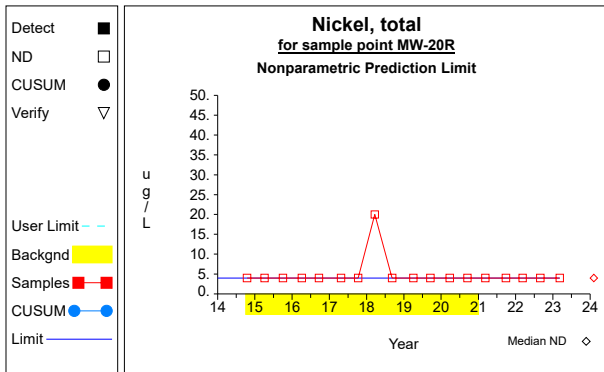
Graph 73



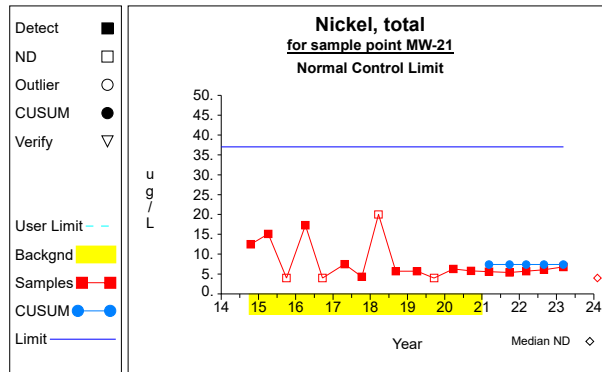
Graph 74



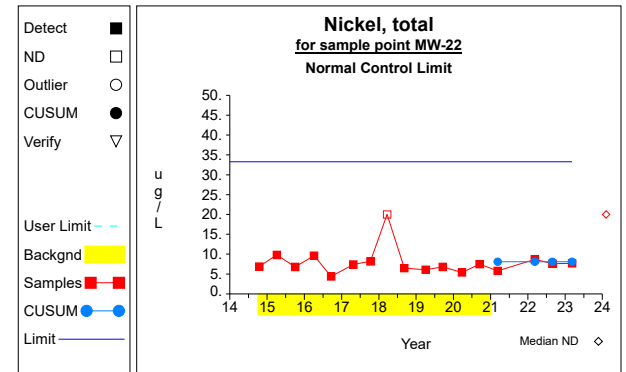
Graph 75



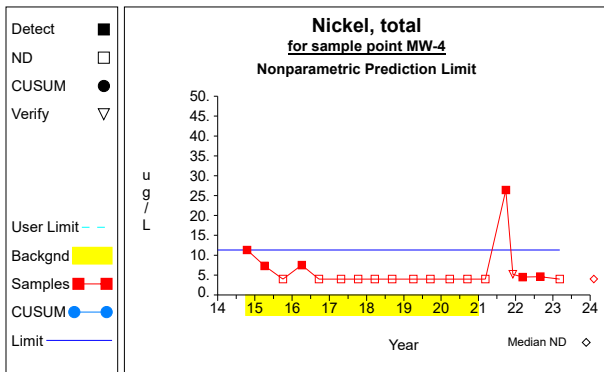
Graph 76



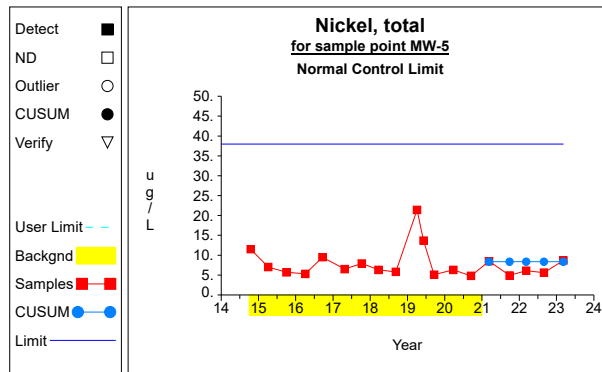
Graph 77



Graph 78

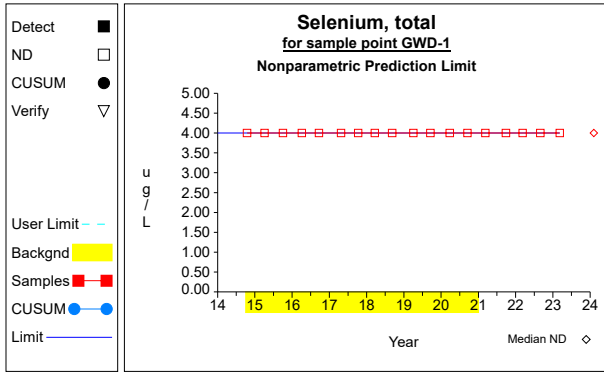


Graph 79

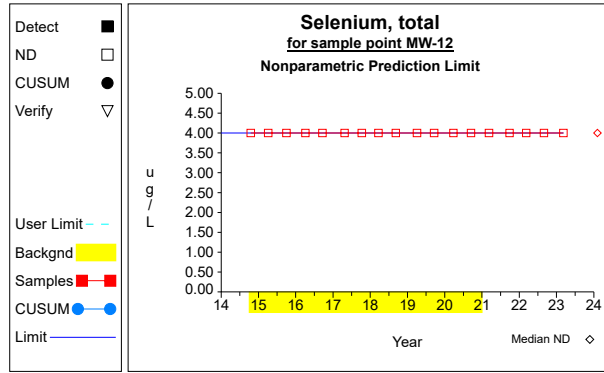


Graph 80

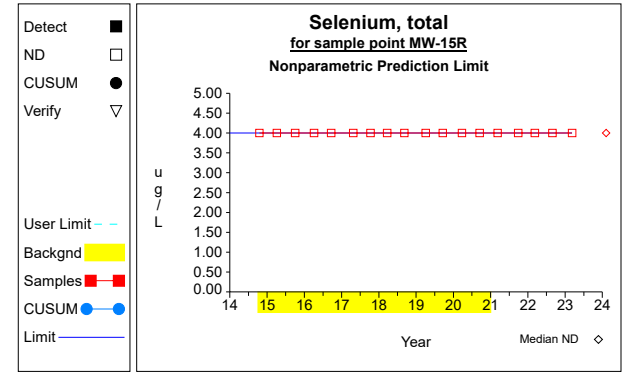
Intra-Well Control Charts / Prediction Limits



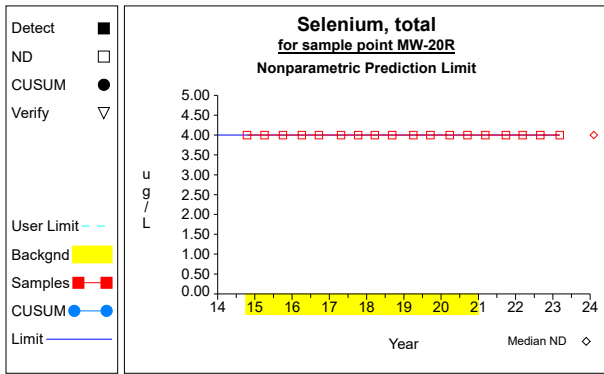
Graph 81



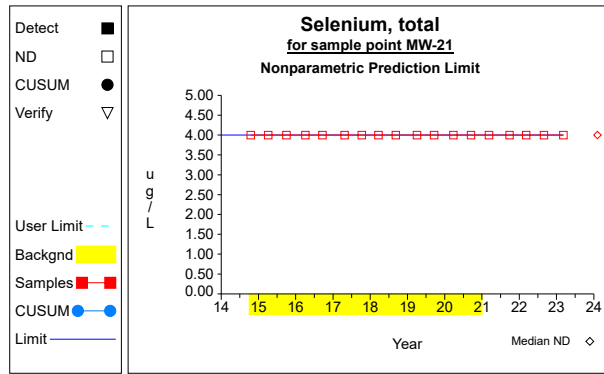
Graph 82



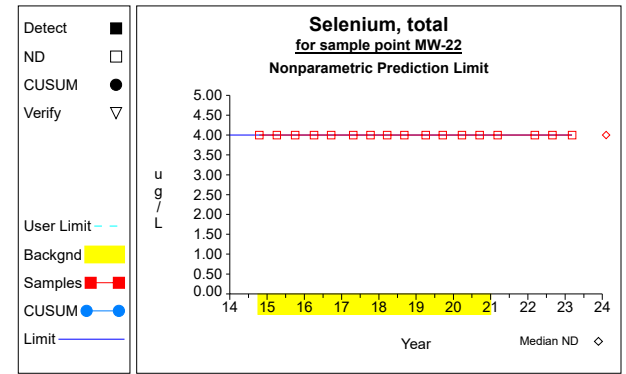
Graph 83



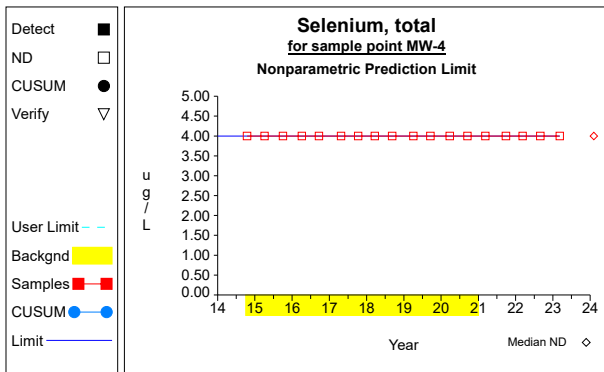
Graph 84



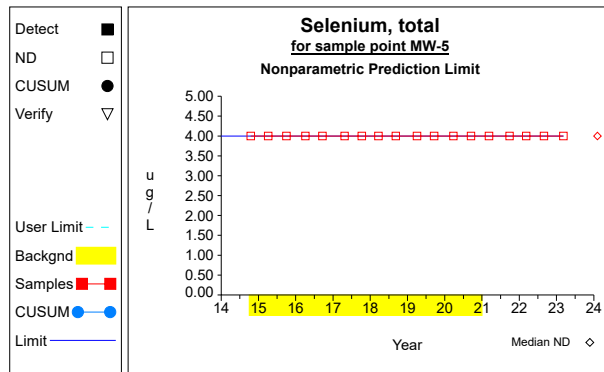
Graph 85



Graph 86

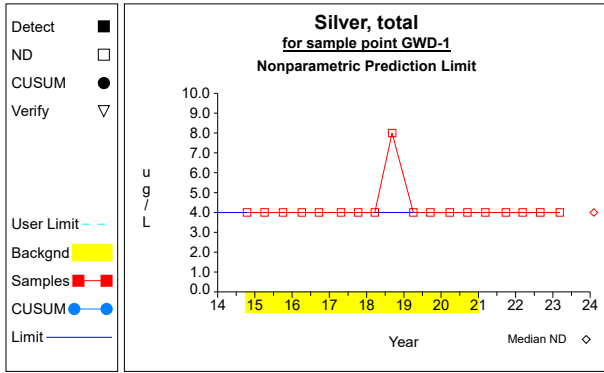


Graph 87

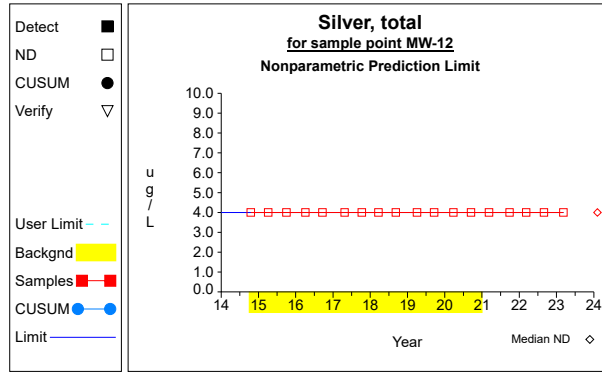


Graph 88

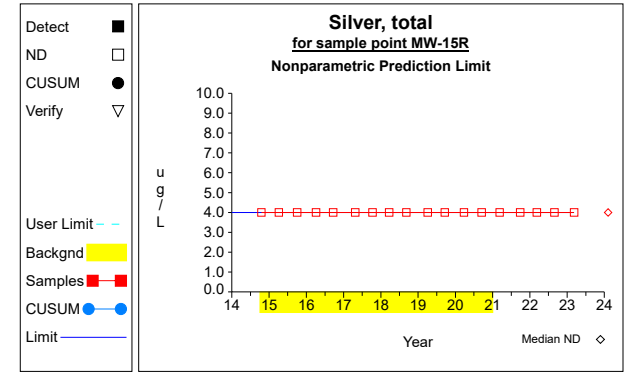
Intra-Well Control Charts / Prediction Limits



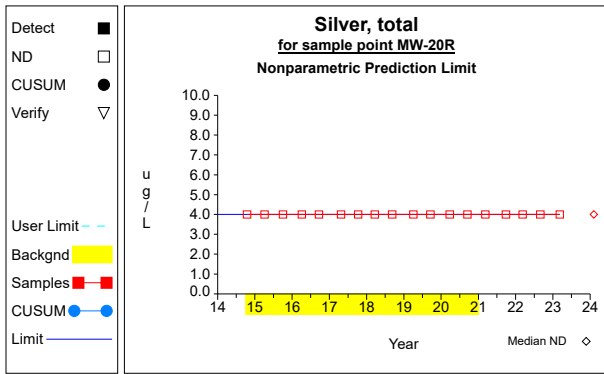
Graph 89



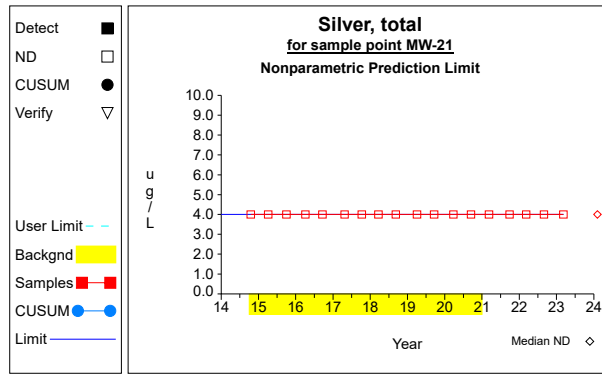
Graph 90



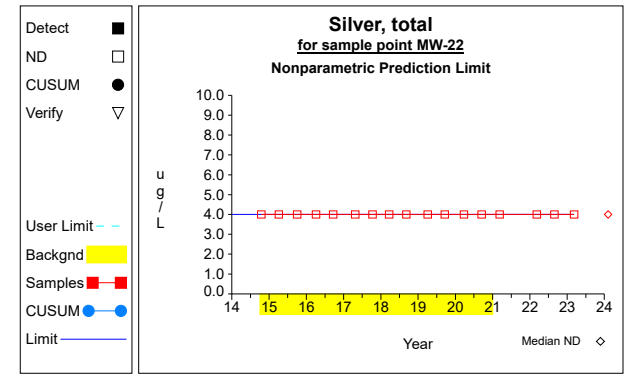
Graph 91



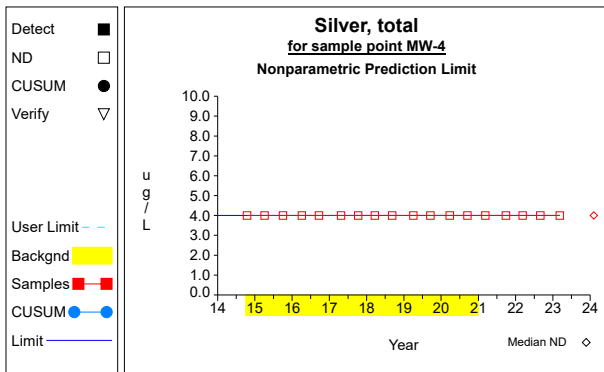
Graph 92



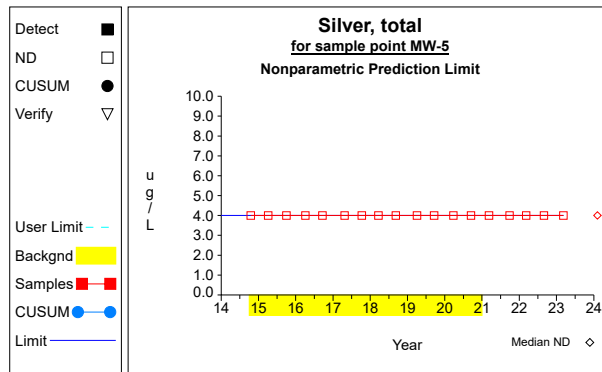
Graph 93



Graph 94

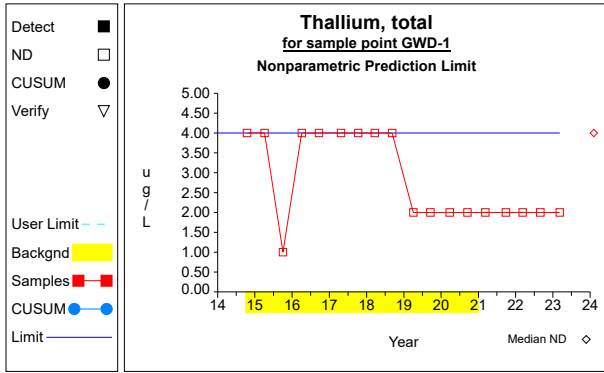


Graph 95

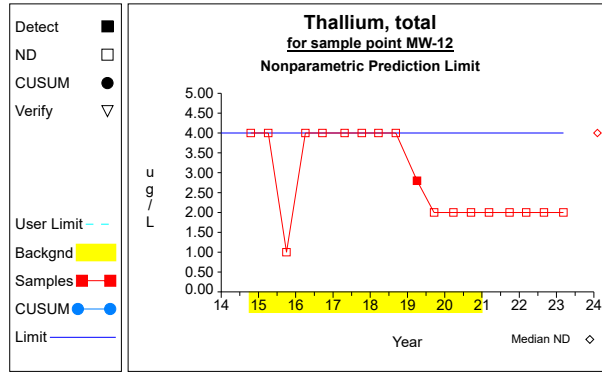


Graph 96

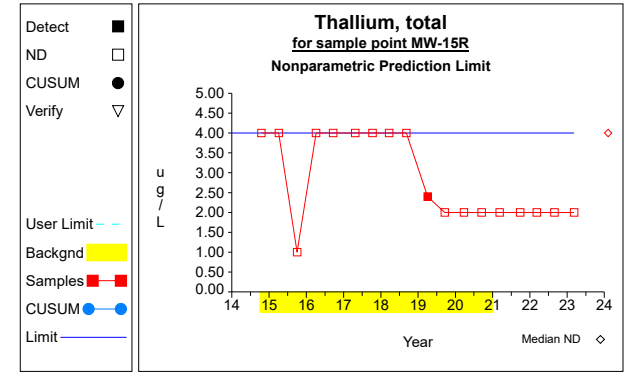
Intra-Well Control Charts / Prediction Limits



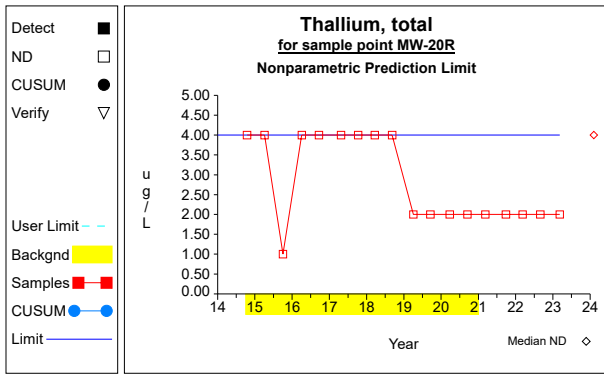
Graph 97



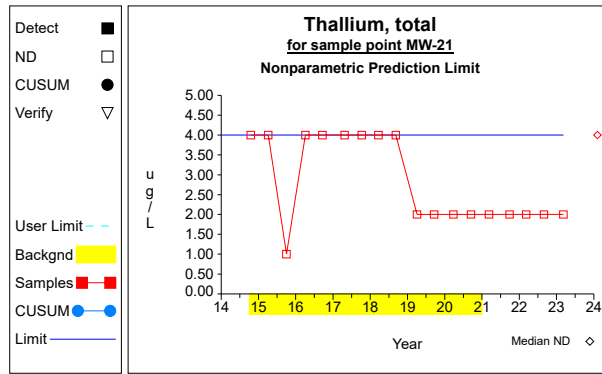
Graph 98



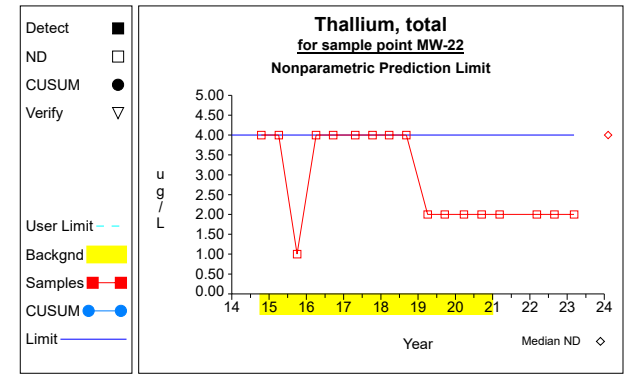
Graph 99



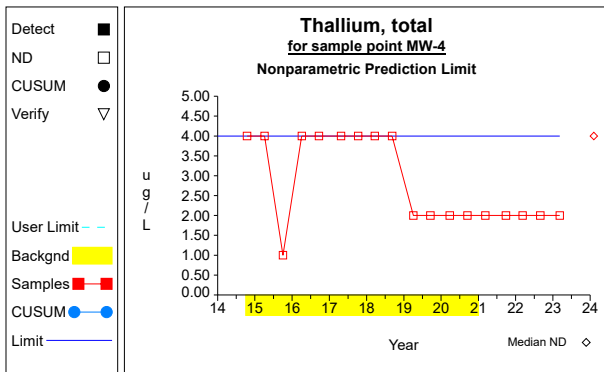
Graph 100



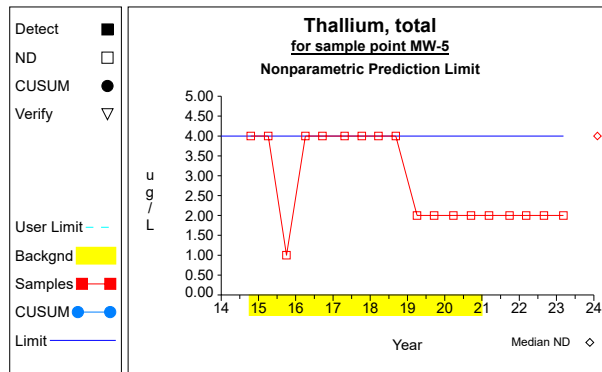
Graph 101



Graph 102

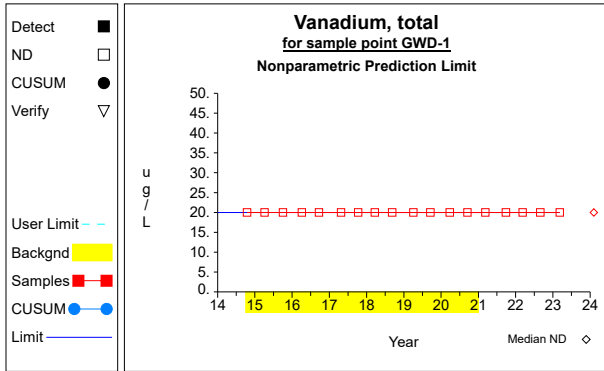


Graph 103

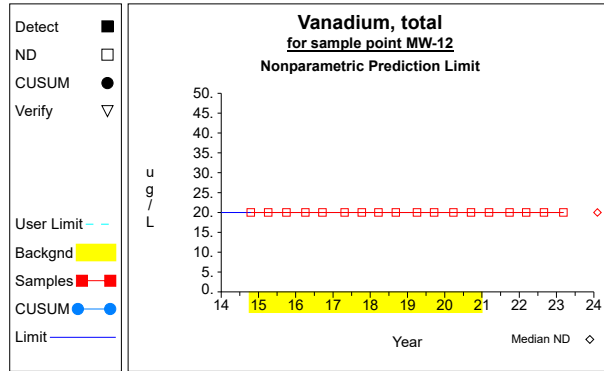


Graph 104

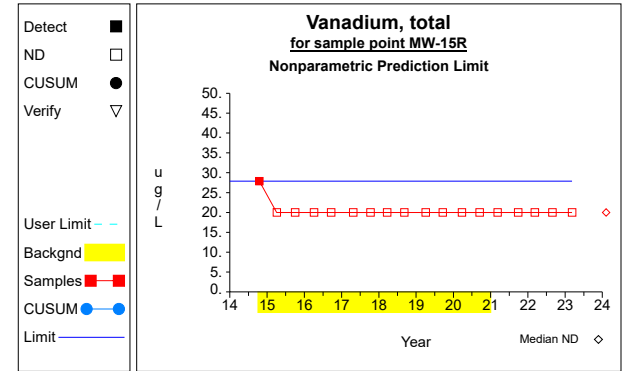
Intra-Well Control Charts / Prediction Limits



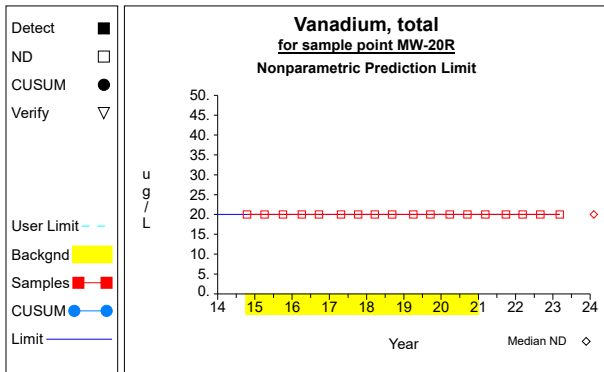
Graph 105



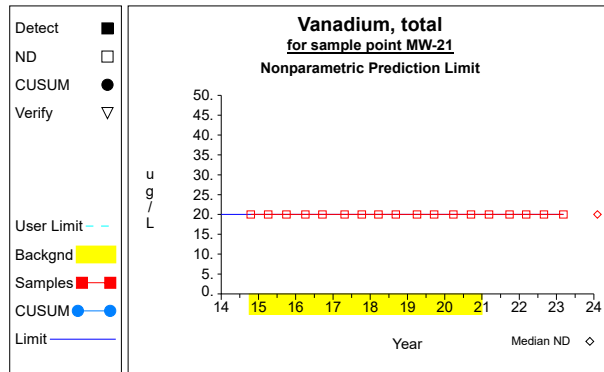
Graph 106



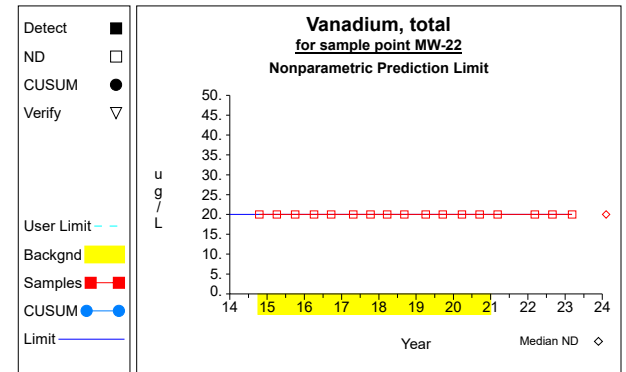
Graph 107



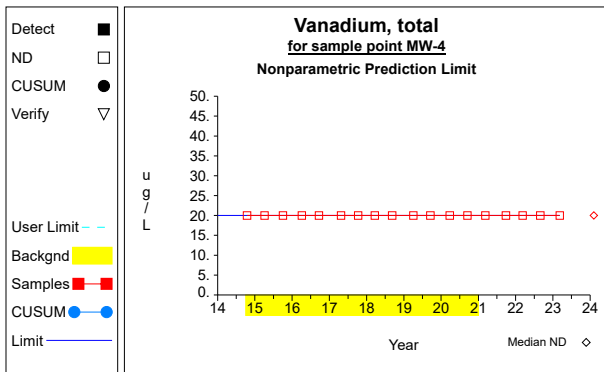
Graph 108



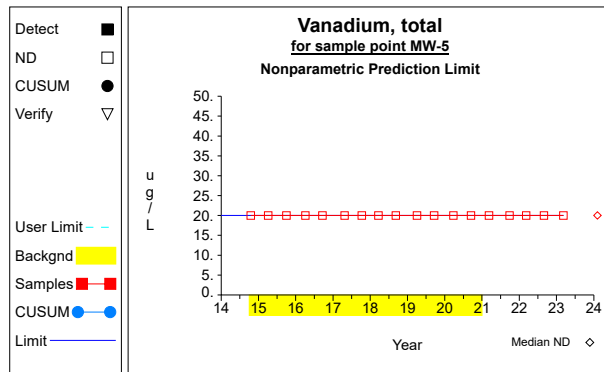
Graph 109



Graph 110

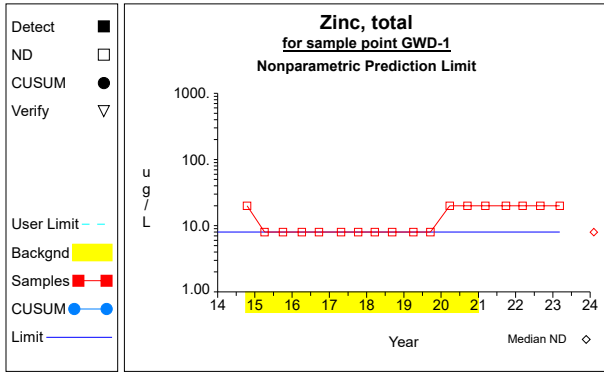


Graph 111

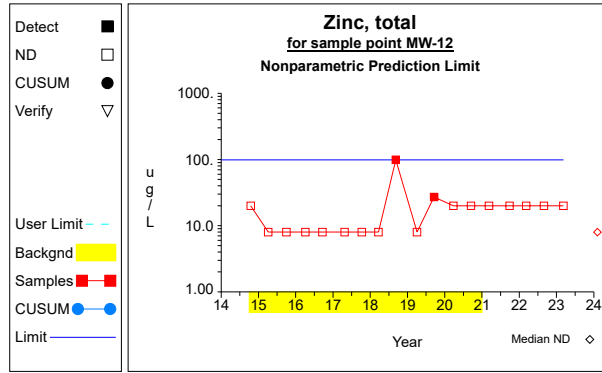


Graph 112

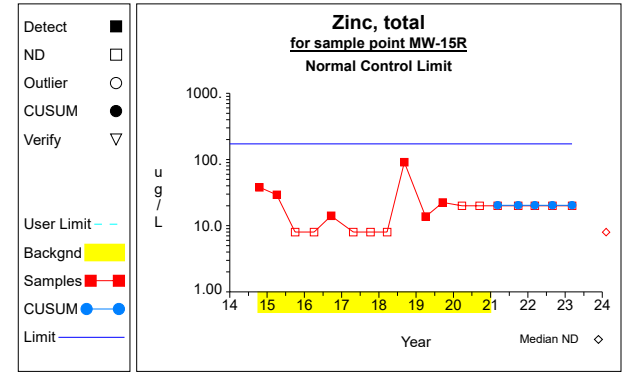
Intra-Well Control Charts / Prediction Limits



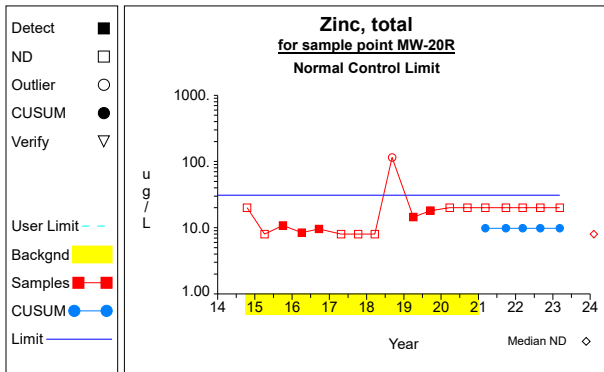
Graph 113



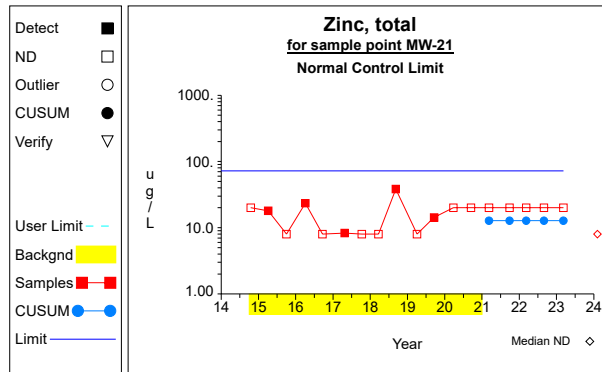
Graph 114



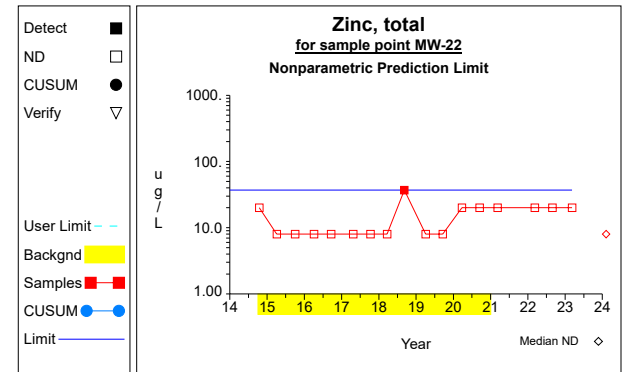
Graph 115



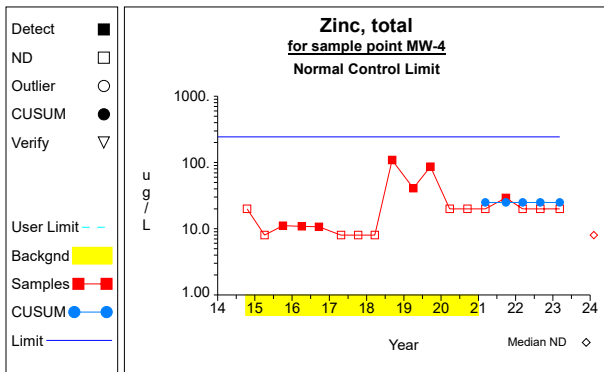
Graph 116



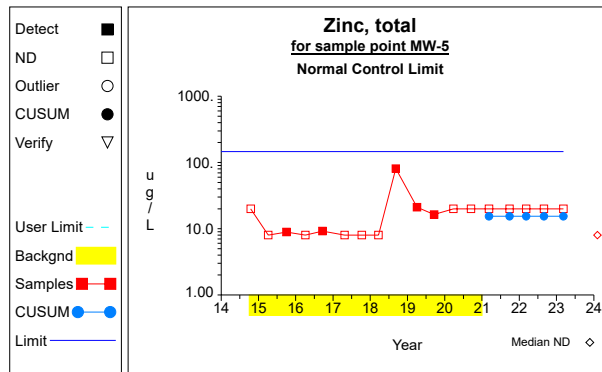
Graph 117



Graph 118

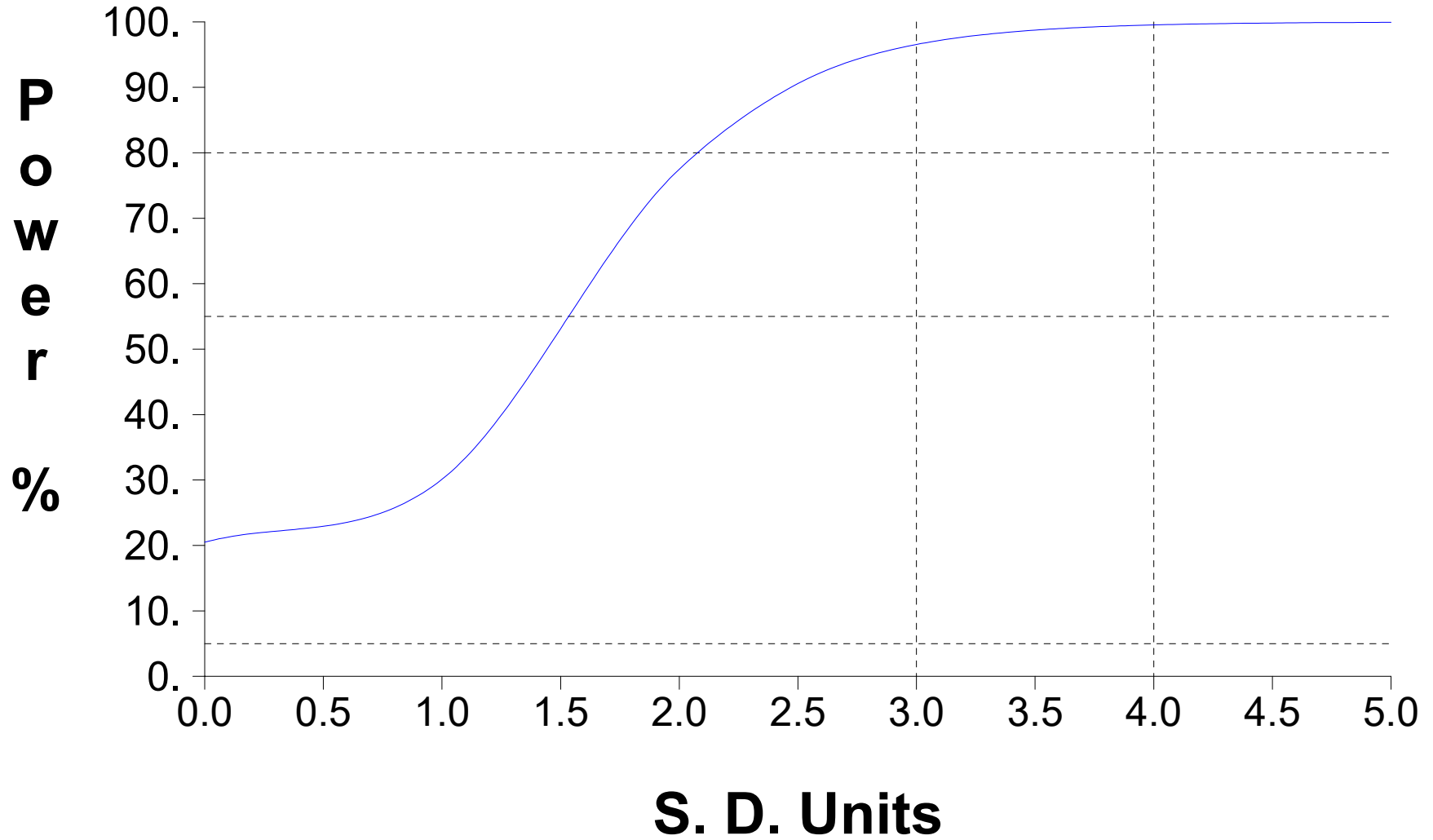


Graph 119



Graph 120

False Positive and False Negative Rates for Current Intra-Well Control Charts Monitoring Program



Attachment E

Summary Table of Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
2-butanone (mek)	GWD-1	4/09/2012		37.6	5.0	ug/L
Chloroethane	GWD-1	9/15/2020		1.6	1.0	ug/L
Trichlorofluoromethane	GWD-1	9/21/2011		4.1	1.0	ug/L
Vinyl chloride	GWD-1	3/07/2023		1.3	1.0	ug/L
Trichloroethylene	MW-10	7/07/1993		3.3	1.0	ug/L
Trichloroethylene	MW-10	10/12/1993		2.7	1.0	ug/L
Trichloroethylene	MW-10	1/24/1994		2.5	1.0	ug/L
Trichloroethylene	MW-10	4/26/1994		2.3	1.0	ug/L
Trichloroethylene	MW-10	7/26/1994		2.5	1.0	ug/L
1,1-dichloroethane	MW-12	6/23/2008		1.0	1.0	ug/L
1,1-dichloroethane	MW-12	12/13/2008		1.2	1.0	ug/L
1,1-dichloroethane	MW-12	9/17/2009		1.0	1.0	ug/L
Acetone	MW-12	10/09/2017		12.9	10.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-12	4/05/2010		9	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-12	9/20/2016		10	8	ug/L
Chloroethane	MW-12	4/23/2008		1.5	1.0	ug/L
Chloroethane	MW-12	6/23/2008		2.1	1.0	ug/L
Chloroethane	MW-12	12/13/2008		2.4	1.0	ug/L
Chloroethane	MW-12	3/04/2009		1.0	1.0	ug/L
Chloroethane	MW-12	11/06/2009		1.0	1.0	ug/L
Chloroethane	MW-12	4/05/2010		1.5	1.0	ug/L
Chloroethane	MW-12	9/15/2020		1.5	1.0	ug/L
Acetone	MW-15R	4/26/2013		49.1	10.0	ug/L
Acetone	MW-15R	10/09/2017		10.4	10.0	ug/L
Chloromethane	MW-15R	10/09/2017		2	1	ug/L
Dichlorodifluoromethane	MW-15R	4/04/2016		1	1	ug/L
Toluene	MW-15R	4/26/2013		7	1	ug/L
2-butanone (mek)	MW-16	9/18/2019		35	5	ug/L
Acetone	MW-16	4/23/2008		40.6	10.0	ug/L
Acetone	MW-16	6/23/2008		15.4	10.0	ug/L
Acetone	MW-16	8/13/2008		149.0	10.0	ug/L
Acetone	MW-16	10/02/2008		77.3	10.0	ug/L
Acetone	MW-16	12/13/2008		91.6	10.0	ug/L
Acetone	MW-16	3/04/2009		47.2	10.0	ug/L
Acetone	MW-16	9/17/2009		170.0	10.0	ug/L
Acetone	MW-16	11/06/2009		89.9	10.0	ug/L
Acetone	MW-16	4/05/2010		164.0	10.0	ug/L
Acetone	MW-16	10/08/2010		45.8	10.0	ug/L
Acetone	MW-16	4/13/2011		72.1	10.0	ug/L
Acetone	MW-16	9/22/2011		107.0	10.0	ug/L
Acetone	MW-16	4/09/2012		27.0	10.0	ug/L
Acetone	MW-16	9/26/2013		26.0	10.0	ug/L
Acetone	MW-16	4/10/2014		61.5	10.0	ug/L
Acetone	MW-16	10/16/2014		124.0	10.0	ug/L
Acetone	MW-16	4/04/2015		14.1	10.0	ug/L
Acetone	MW-16	10/01/2015		13.1	10.0	ug/L
Acetone	MW-16	9/20/2016		26.8	10.0	ug/L
Acetone	MW-16	4/24/2017		134.0	10.0	ug/L
Acetone	MW-16	10/09/2017		17.0	10.0	ug/L
Acetone	MW-16	3/21/2018		24.5	10.0	ug/L
Acetone	MW-16	9/07/2018		72.3	10.0	ug/L
Acetone	MW-16	4/02/2019		34.2	10.0	ug/L
Acetone	MW-16	9/18/2019		196.0	50.0	ug/L
Acetone	MW-16	3/25/2020		51.2	10.0	ug/L
Acetone	MW-16	9/15/2020		109.0	10.0	ug/L
Acetone	MW-16	3/08/2021		1140.0	50.0	ug/L
Benzene	MW-16	4/05/2010		1.1	1.0	ug/L
Benzene	MW-16	9/22/2011		1.2	1.0	ug/L
Chloroethane	MW-16	4/23/2008		2.0	1.0	ug/L
Chloroethane	MW-16	6/23/2008		1.7	1.0	ug/L
Chloroethane	MW-16	8/13/2008		2.0	1.0	ug/L
Chloroethane	MW-16	12/13/2008		1.8	1.0	ug/L
Chloroethane	MW-16	3/04/2009		1.3	1.0	ug/L
Chloroethane	MW-16	11/06/2009		2.2	1.0	ug/L
Chloroethane	MW-16	4/05/2010		2.1	1.0	ug/L
Chloroethane	MW-16	9/22/2011		2.3	1.0	ug/L
Chloroethane	MW-16	4/09/2012		1.1	1.0	ug/L
Chloroethane	MW-16	4/10/2014		1.0	1.0	ug/L
Chloroethane	MW-16	4/04/2016		1.0	1.0	ug/L
Chloromethane	MW-16	10/09/2017		2.3	1.0	ug/L
Dichlorodifluoromethane	MW-16	4/05/2010		1.2	1.0	ug/L
Dichlorodifluoromethane	MW-16	9/22/2011		1.0	1.0	ug/L
Dichlorodifluoromethane	MW-16	4/09/2012		1.2	1.0	ug/L
Dichlorodifluoromethane	MW-16	9/26/2013		1.2	1.0	ug/L
Dichlorodifluoromethane	MW-16	4/04/2016		1.0	1.0	ug/L
Vinyl chloride	MW-16	4/23/2008		2.9	1.0	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Vinyl chloride	MW-16	6/23/2008		2.5	1.0	ug/L
Vinyl chloride	MW-16	8/13/2008		2.5	1.0	ug/L
Vinyl chloride	MW-16	10/02/2008		2.5	1.0	ug/L
Vinyl chloride	MW-16	12/13/2008		2.8	1.0	ug/L
Vinyl chloride	MW-16	3/04/2009		1.8	1.0	ug/L
Vinyl chloride	MW-16	11/06/2009		2.0	1.0	ug/L
Vinyl chloride	MW-16	4/05/2010		2.9	1.0	ug/L
Vinyl chloride	MW-16	10/08/2010		3.0	1.0	ug/L
Vinyl chloride	MW-16	4/13/2011		2.3	1.0	ug/L
Vinyl chloride	MW-16	9/22/2011		1.4	1.0	ug/L
Vinyl chloride	MW-16	4/09/2012		1.0	1.0	ug/L
Vinyl chloride	MW-16	9/05/2012		1.4	1.0	ug/L
Vinyl chloride	MW-16	9/26/2013		1.1	1.0	ug/L
Acetone	MW-18	4/14/2011		26.2	10.0	ug/L
Acetone	MW-18	4/26/2013		17.2	10.0	ug/L
Acetone	MW-18	9/26/2013		10.3	10.0	ug/L
Acetone	MW-18	9/20/2016		11.7	10.0	ug/L
Acetone	MW-18	10/09/2017		16.8	10.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-20R	4/04/2016		25	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-20R	9/07/2018		7	6	ug/L
Chloroethane	MW-21	4/05/2010		2.1	1.0	ug/L
Chloroethane	MW-21	5/24/2010		1.3	1.0	ug/L
Chloroethane	MW-21	4/14/2011		2.5	1.0	ug/L
Chloroethane	MW-21	9/21/2011		2.0	1.0	ug/L
Chloroethane	MW-21	4/09/2012		2.2	1.0	ug/L
Chloroethane	MW-21	9/05/2012		1.4	1.0	ug/L
Chloroethane	MW-21	9/26/2013		1.4	1.0	ug/L
Chloroethane	MW-21	4/10/2014		1.2	1.0	ug/L
Chloroethane	MW-21	10/16/2014		1.4	1.0	ug/L
Chloroethane	MW-21	4/04/2015		1.1	1.0	ug/L
Chloroethane	MW-21	10/01/2015		1.7	1.0	ug/L
Chloroethane	MW-21	4/04/2016		2.4	1.0	ug/L
Chloroethane	MW-21	9/20/2016		1.4	1.0	ug/L
Chloroethane	MW-21	4/24/2017		2.6	1.0	ug/L
Chloroethane	MW-21	10/09/2017		1.0	1.0	ug/L
Chloroethane	MW-21	9/07/2018		1.6	1.0	ug/L
Chloroethane	MW-21	4/02/2019		1.8	1.0	ug/L
Chloroethane	MW-21	9/18/2019		1.7	1.0	ug/L
Chloroethane	MW-21	3/25/2020		1.2	1.0	ug/L
Chloroethane	MW-21	3/08/2021		1.3	1.0	ug/L
Chloroethane	MW-21	3/08/2022		1.0	1.0	ug/L
Chloroethane	MW-21	3/07/2023		1.4	1.0	ug/L
Chloromethane	MW-21	4/05/2010		2.7	1.0	ug/L
Chloromethane	MW-21	4/26/2013		1.4	1.0	ug/L
Dichlorodifluoromethane	MW-21	4/04/2016		1	1	ug/L
Acetone	MW-22	11/06/2009		14.9	10.0	ug/L
Acetone	MW-22	9/26/2013		10.1	10.0	ug/L
Acetone	MW-22	10/09/2017		14.6	10.0	ug/L
Benzene	MW-22	11/06/2009		1.8	1.0	ug/L
Benzene	MW-22	5/24/2010		1.4	1.0	ug/L
Benzene	MW-22	8/16/2010		2.0	1.0	ug/L
Benzene	MW-22	4/14/2011		1.7	1.0	ug/L
Benzene	MW-22	9/22/2011		1.6	1.0	ug/L
Benzene	MW-22	4/09/2012		2.2	1.0	ug/L
Benzene	MW-22	4/26/2013		1.3	1.0	ug/L
Benzene	MW-22	9/26/2013		1.2	1.0	ug/L
Benzene	MW-22	4/04/2015		1.6	1.0	ug/L
Benzene	MW-22	4/24/2017		1.7	1.0	ug/L
Benzene	MW-22	3/21/2018		2.3	1.0	ug/L
Benzene	MW-22	9/07/2018		1.5	1.0	ug/L
Benzene	MW-22	4/02/2019		2.2	1.0	ug/L
Benzene	MW-22	9/18/2019		2.3	1.0	ug/L
Benzene	MW-22	3/25/2020		2.4	1.0	ug/L
Benzene	MW-22	9/15/2020		1.5	1.0	ug/L
Benzene	MW-22	3/08/2021		1.4	1.0	ug/L
Benzene	MW-22	3/08/2022		1.0	1.0	ug/L
Benzene	MW-22	3/07/2023		2.0	1.0	ug/L
Bromomethane	MW-22	10/15/2014		2.4	1.0	ug/L
Chloroethane	MW-22	11/06/2009		5.4	1.0	ug/L
Chloroethane	MW-22	4/05/2010		5.4	1.0	ug/L
Chloroethane	MW-22	5/24/2010		4.6	1.0	ug/L
Chloroethane	MW-22	8/16/2010		4.2	1.0	ug/L
Chloroethane	MW-22	4/14/2011		3.8	1.0	ug/L
Chloroethane	MW-22	9/22/2011		2.7	1.0	ug/L
Chloroethane	MW-22	4/09/2012		3.3	1.0	ug/L
Chloroethane	MW-22	9/26/2013		1.4	1.0	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Chloroethane	MW-22	10/15/2014		1.0	1.0	ug/L
Chloroethane	MW-22	4/04/2015		1.1	1.0	ug/L
Chloroethane	MW-22	4/24/2017		1.5	1.0	ug/L
Chloroethane	MW-22	9/15/2020		1.7	1.0	ug/L
Chloroethane	MW-22	3/08/2021		1.2	1.0	ug/L
Chloromethane	MW-22	4/26/2013		1.1	1.0	ug/L
Hexachlorobenzene	MW-22	3/08/2021		.08	.05	ug/L
Methyl iodide	MW-22	10/15/2014		11.8	1.0	ug/L
Toluene	MW-22	4/24/2017		1.2	1.0	ug/L
Toluene	MW-22	3/21/2018		1.5	1.0	ug/L
Vinyl chloride	MW-22	11/06/2009		5.2	1.0	ug/L
Vinyl chloride	MW-22	4/05/2010		2.0	1.0	ug/L
Vinyl chloride	MW-22	5/24/2010		3.8	1.0	ug/L
Vinyl chloride	MW-22	10/08/2010		6.6	1.0	ug/L
Vinyl chloride	MW-22	4/14/2011		4.1	1.0	ug/L
Vinyl chloride	MW-22	9/22/2011		3.2	1.0	ug/L
Vinyl chloride	MW-22	4/09/2012		4.7	1.0	ug/L
Vinyl chloride	MW-22	9/26/2013		1.7	1.0	ug/L
Vinyl chloride	MW-22	4/04/2015		1.6	1.0	ug/L
Vinyl chloride	MW-22	10/01/2015		1.0	1.0	ug/L
Vinyl chloride	MW-22	4/24/2017		2.9	1.0	ug/L
Vinyl chloride	MW-22	9/07/2018		1.5	1.0	ug/L
Vinyl chloride	MW-22	4/02/2019		1.4	1.0	ug/L
Vinyl chloride	MW-22	9/18/2019		1.8	1.0	ug/L
Vinyl chloride	MW-22	3/25/2020		1.8	1.0	ug/L
Vinyl chloride	MW-22	9/15/2020		1.3	1.0	ug/L
Vinyl chloride	MW-22	3/08/2021		1.1	1.0	ug/L
Vinyl chloride	MW-22	3/07/2023		1.3	1.0	ug/L
1,1-dichloroethane	MW-23	9/21/2011		3.5	1.0	ug/L
1,1-dichloroethane	MW-23	9/05/2012		1.7	1.0	ug/L
Chloroethane	MW-23	9/21/2011		1.8	1.0	ug/L
Acetone	MW-24	4/26/2013		100.0	10.0	ug/L
Acetone	MW-24	10/16/2014		58.4	10.0	ug/L
Acetone	MW-24	3/25/2020		13.8	10.0	ug/L
Acetone	MW-24	3/08/2021		62.4	10.0	ug/L
Chloroethane	MW-26	4/24/2017		1.6	1.0	ug/L
1,1-dichloroethane	MW-4	4/23/2008		1.2	1.0	ug/L
1,1-dichloroethane	MW-4	12/13/2008		1.3	1.0	ug/L
1,1-dichloroethane	MW-4	9/17/2009		1.2	1.0	ug/L
1,1-dichloroethane	MW-4	4/05/2010		1.0	1.0	ug/L
1,1-dichloroethane	MW-4	4/04/2016		1.0	1.0	ug/L
1,1-dichloroethane	MW-4	4/24/2017		1.7	1.0	ug/L
1,1-dichloroethane	MW-4	10/09/2017		2.6	1.0	ug/L
1,1-dichloroethane	MW-4	3/21/2018		2.6	1.0	ug/L
1,1-dichloroethane	MW-4	9/15/2020		1.9	1.0	ug/L
1,1-dichloroethane	MW-4	9/28/2021		1.1	1.0	ug/L
1,2-dichloroethane	MW-4	7/07/1993		7.3	1.0	ug/L
1,2-dichloroethane	MW-4	10/12/1993		3.7	1.0	ug/L
1,2-dichloroethane	MW-4	1/24/1994		2.4	1.0	ug/L
1,2-dichloroethane	MW-4	10/13/1994		4.0	1.0	ug/L
1,2-dichloroethane	MW-4	4/25/1995		1.6	1.0	ug/L
1,2-dichloroethane	MW-4	10/18/1995		3.3	1.0	ug/L
1,2-dichloroethane	MW-4	7/31/1996		2.7	1.0	ug/L
1,2-dichloroethane	MW-4	10/09/1996		2.0	1.0	ug/L
1,2-dichloroethane	MW-4	4/23/2008		1.0	1.0	ug/L
1,2-dichloropropane	MW-4	10/16/2014		1.2	1.0	ug/L
1,2-dichloropropane	MW-4	9/18/2019		1.6	1.0	ug/L
1,2-dichloropropane	MW-4	9/28/2021		1.4	1.0	ug/L
1,2-dichloropropane	MW-4	3/07/2023		1.1	1.0	ug/L
1,4-dichlorobenzene	MW-4	7/07/1993		1.6	1.0	ug/L
1,4-dichlorobenzene	MW-4	10/12/1993		1.1	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/23/2008		8.7	1.0	ug/L
1,4-dichlorobenzene	MW-4	6/23/2008		6.9	1.0	ug/L
1,4-dichlorobenzene	MW-4	8/13/2008		4.9	1.0	ug/L
1,4-dichlorobenzene	MW-4	10/02/2008		5.7	1.0	ug/L
1,4-dichlorobenzene	MW-4	12/13/2008		7.1	1.0	ug/L
1,4-dichlorobenzene	MW-4	3/04/2009		5.5	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/17/2009		6.0	1.0	ug/L
1,4-dichlorobenzene	MW-4	11/06/2009		5.3	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/05/2010		7.2	1.0	ug/L
1,4-dichlorobenzene	MW-4	10/08/2010		3.9	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/13/2011		7.2	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/22/2011		5.5	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/09/2012		5.2	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/05/2012		9.8	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/26/2013		5.0	1.0	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,4-dichlorobenzene	MW-4	4/10/2014		7.5	1.0	ug/L
1,4-dichlorobenzene	MW-4	10/16/2014		6.8	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/04/2015		5.1	1.0	ug/L
1,4-dichlorobenzene	MW-4	10/01/2015		3.9	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/04/2016		5.3	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/20/2016		3.5	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/24/2017		5.0	1.0	ug/L
1,4-dichlorobenzene	MW-4	10/09/2017		6.5	1.0	ug/L
1,4-dichlorobenzene	MW-4	3/21/2018		6.3	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/07/2018		4.9	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/02/2019		10.4	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/18/2019		7.5	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/15/2020		6.2	1.0	ug/L
1,4-dichlorobenzene	MW-4	3/08/2021		6.3	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/28/2021		6.0	1.0	ug/L
1,4-dichlorobenzene	MW-4	3/08/2022		5.8	1.0	ug/L
1,4-dichlorobenzene	MW-4	8/30/2022		4.6	1.0	ug/L
1,4-dichlorobenzene	MW-4	3/07/2023		5.7	1.0	ug/L
Acetone	MW-4	4/23/2008		12.5	10.0	ug/L
Acetone	MW-4	9/17/2009		36.7	10.0	ug/L
Acetone	MW-4	11/06/2009		19.7	10.0	ug/L
Acetone	MW-4	4/05/2010		146.0	10.0	ug/L
Acetone	MW-4	4/13/2011		29.0	10.0	ug/L
Acetone	MW-4	4/09/2012		25.9	10.0	ug/L
Acetone	MW-4	9/05/2012		209.0	10.0	ug/L
Acetone	MW-4	4/10/2014		11.0	10.0	ug/L
Acetone	MW-4	10/09/2017		11.2	10.0	ug/L
Acetone	MW-4	9/28/2021		43.4	10.0	ug/L
Benzene	MW-4	7/07/1993		5.2	1.0	ug/L
Benzene	MW-4	10/12/1993		3.9	1.0	ug/L
Benzene	MW-4	1/24/1994		2.5	1.0	ug/L
Benzene	MW-4	4/26/1994		2.1	1.0	ug/L
Benzene	MW-4	7/26/1994		2.4	1.0	ug/L
Benzene	MW-4	10/13/1994		9.1	1.0	ug/L
Benzene	MW-4	4/25/1995		3.0	1.0	ug/L
Benzene	MW-4	10/18/1995		8.5	1.0	ug/L
Benzene	MW-4	2/08/1996		9.6	1.0	ug/L
Benzene	MW-4	4/26/1996		5.9	1.0	ug/L
Benzene	MW-4	7/31/1996		7.5	1.0	ug/L
Benzene	MW-4	10/09/1996		7.5	1.0	ug/L
Benzene	MW-4	9/26/1997		3.2	1.0	ug/L
Benzene	MW-4	4/23/1998		2.6	1.0	ug/L
Benzene	MW-4	9/16/1998		3.7	1.0	ug/L
Benzene	MW-4	3/30/1999		3.1	1.0	ug/L
Benzene	MW-4	10/07/1999		3.1	1.0	ug/L
Benzene	MW-4	4/13/2000		1.9	1.0	ug/L
Benzene	MW-4	4/05/2001		7.4	1.0	ug/L
Benzene	MW-4	8/28/2001		2.3	1.0	ug/L
Benzene	MW-4	3/29/2002		2.7	1.0	ug/L
Benzene	MW-4	4/15/2003		1.0	1.0	ug/L
Benzene	MW-4	4/03/2004		1.1	1.0	ug/L
Benzene	MW-4	9/29/2004		1.7	1.0	ug/L
Benzene	MW-4	4/09/2005		1.3	1.0	ug/L
Benzene	MW-4	4/09/2006		1.2	1.0	ug/L
Benzene	MW-4	9/18/2006		3.3	1.0	ug/L
Benzene	MW-4	4/21/2007		4.4	1.0	ug/L
Benzene	MW-4	9/20/2007		5.8	1.0	ug/L
Benzene	MW-4	4/23/2008		4.8	1.0	ug/L
Benzene	MW-4	6/23/2008		4.3	1.0	ug/L
Benzene	MW-4	8/13/2008		3.9	1.0	ug/L
Benzene	MW-4	10/02/2008		4.8	1.0	ug/L
Benzene	MW-4	12/13/2008		4.1	1.0	ug/L
Benzene	MW-4	3/04/2009		3.0	1.0	ug/L
Benzene	MW-4	9/17/2009		4.0	1.0	ug/L
Benzene	MW-4	11/06/2009		3.2	1.0	ug/L
Benzene	MW-4	4/05/2010		4.4	1.0	ug/L
Benzene	MW-4	10/08/2010		2.7	1.0	ug/L
Benzene	MW-4	4/13/2011		3.3	1.0	ug/L
Benzene	MW-4	9/22/2011		2.6	1.0	ug/L
Benzene	MW-4	4/09/2012		1.7	1.0	ug/L
Benzene	MW-4	9/05/2012		2.2	1.0	ug/L
Benzene	MW-4	4/26/2013		1.3	1.0	ug/L
Benzene	MW-4	4/10/2014		1.5	1.0	ug/L
Benzene	MW-4	10/16/2014		2.4	1.0	ug/L
Benzene	MW-4	4/04/2015		1.6	1.0	ug/L
Benzene	MW-4	10/01/2015		1.3	1.0	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Benzene	MW-4	4/04/2016		1.4	1.0	ug/L
Benzene	MW-4	9/20/2016		1.2	1.0	ug/L
Benzene	MW-4	4/24/2017		1.2	1.0	ug/L
Benzene	MW-4	10/09/2017		1.3	1.0	ug/L
Benzene	MW-4	3/21/2018		1.5	1.0	ug/L
Benzene	MW-4	4/02/2019		1.0	1.0	ug/L
Benzene	MW-4	3/25/2020		1.2	1.0	ug/L
Benzene	MW-4	9/15/2020		1.3	1.0	ug/L
Benzene	MW-4	3/08/2021		1.6	1.0	ug/L
Benzene	MW-4	9/28/2021		1.4	1.0	ug/L
Benzene	MW-4	3/08/2022		1.7	1.0	ug/L
Benzene	MW-4	8/30/2022		1.2	1.0	ug/L
Benzene	MW-4	3/07/2023		1.5	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-4	4/05/2010		11	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-4	9/20/2016		10	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-4	9/28/2021		12	6	ug/L
Chloroethane	MW-4	4/23/2008		6.9	1.0	ug/L
Chloroethane	MW-4	6/23/2008		5.8	1.0	ug/L
Chloroethane	MW-4	8/13/2008		5.2	1.0	ug/L
Chloroethane	MW-4	10/02/2008		6.9	1.0	ug/L
Chloroethane	MW-4	12/13/2008		4.6	1.0	ug/L
Chloroethane	MW-4	3/04/2009		3.4	1.0	ug/L
Chloroethane	MW-4	9/17/2009		6.3	1.0	ug/L
Chloroethane	MW-4	11/06/2009		3.7	1.0	ug/L
Chloroethane	MW-4	4/05/2010		5.4	1.0	ug/L
Chloroethane	MW-4	4/13/2011		3.4	1.0	ug/L
Chloroethane	MW-4	9/22/2011		3.9	1.0	ug/L
Chloroethane	MW-4	4/09/2012		2.1	1.0	ug/L
Chloroethane	MW-4	9/05/2012		4.4	1.0	ug/L
Chloroethane	MW-4	4/26/2013		2.0	1.0	ug/L
Chloroethane	MW-4	4/10/2014		2.4	1.0	ug/L
Chloroethane	MW-4	10/16/2014		4.7	1.0	ug/L
Chloroethane	MW-4	4/04/2015		2.1	1.0	ug/L
Chloroethane	MW-4	10/01/2015		3.0	1.0	ug/L
Chloroethane	MW-4	4/04/2016		3.1	1.0	ug/L
Chloroethane	MW-4	9/20/2016		3.9	1.0	ug/L
Chloroethane	MW-4	4/24/2017		2.3	1.0	ug/L
Chloroethane	MW-4	10/09/2017		3.0	1.0	ug/L
Chloroethane	MW-4	3/21/2018		2.4	1.0	ug/L
Chloroethane	MW-4	9/07/2018		2.5	1.0	ug/L
Chloroethane	MW-4	4/02/2019		2.1	1.0	ug/L
Chloroethane	MW-4	9/18/2019		2.9	1.0	ug/L
Chloroethane	MW-4	3/25/2020		1.5	1.0	ug/L
Chloroethane	MW-4	9/15/2020		5.0	1.0	ug/L
Chloroethane	MW-4	3/08/2021		1.4	1.0	ug/L
Chloroethane	MW-4	9/28/2021		2.4	1.0	ug/L
Chloroethane	MW-4	3/08/2022		1.2	1.0	ug/L
Chloroethane	MW-4	8/30/2022		1.9	1.0	ug/L
Chloroethane	MW-4	3/07/2023		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	4/23/2008		32.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	6/23/2008		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	8/13/2008		1.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	12/13/2008		1.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	9/17/2009		6.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	11/06/2009		3.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	4/05/2010		6.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	10/08/2010		2.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	4/13/2011		1.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	9/22/2011		4.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	4/09/2012		3.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	9/05/2012		16.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	4/26/2013		1.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	10/16/2014		2.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	10/01/2015		2.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	9/20/2016		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	10/09/2017		2.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	9/18/2019		3.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	9/15/2020		1.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	9/28/2021		2.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	8/30/2022		4.5	1.0	ug/L
Dichlorodifluoromethane	MW-4	9/22/2011		1.6	1.0	ug/L
Dichlorodifluoromethane	MW-4	4/09/2012		1.2	1.0	ug/L
Dichlorodifluoromethane	MW-4	9/05/2012		1.4	1.0	ug/L
Dichlorodifluoromethane	MW-4	4/26/2013		1.2	1.0	ug/L
Dichlorodifluoromethane	MW-4	4/10/2014		1.7	1.0	ug/L
Dichlorodifluoromethane	MW-4	10/16/2014		3.7	1.0	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Dichlorodifluoromethane	MW-4	4/04/2015		1.1	1.0	ug/L
Dichlorodifluoromethane	MW-4	4/04/2016		1.4	1.0	ug/L
Dichlorodifluoromethane	MW-4	9/20/2016		1.1	1.0	ug/L
Dichlorodifluoromethane	MW-4	4/24/2017		1.3	1.0	ug/L
Dichlorodifluoromethane	MW-4	10/09/2017		1.0	1.0	ug/L
Dichlorodifluoromethane	MW-4	4/02/2019		2.6	1.0	ug/L
Dichlorodifluoromethane	MW-4	3/25/2020		1.1	1.0	ug/L
Ethylbenzene	MW-4	6/23/2008		1.0	1.0	ug/L
Ethylbenzene	MW-4	12/13/2008		1.1	1.0	ug/L
Methacrylonitrile	MW-4	9/22/2011		11.8	1.0	ug/L
Tetrachloroethylene	MW-4	4/23/2008		2	1	ug/L
Toluene	MW-4	6/23/2008		2.9	1.0	ug/L
Toluene	MW-4	8/13/2008		2.2	1.0	ug/L
Toluene	MW-4	10/02/2008		2.5	1.0	ug/L
Toluene	MW-4	12/13/2008		3.4	1.0	ug/L
Toluene	MW-4	3/04/2009		2.7	1.0	ug/L
Toluene	MW-4	9/17/2009		1.1	1.0	ug/L
Toluene	MW-4	4/05/2010		1.2	1.0	ug/L
Trichloroethylene	MW-4	7/07/1993		3.6	1.0	ug/L
Trichloroethylene	MW-4	10/12/1993		1.8	1.0	ug/L
Trichloroethylene	MW-4	1/24/1994		1.2	1.0	ug/L
Trichloroethylene	MW-4	4/23/2008		3.6	1.0	ug/L
Trichloroethylene	MW-4	9/05/2012		1.8	1.0	ug/L
Vinyl chloride	MW-4	4/23/2008		5.6	1.0	ug/L
Vinyl chloride	MW-4	6/23/2008		22.6	1.0	ug/L
Vinyl chloride	MW-4	8/13/2008		14.6	1.0	ug/L
Vinyl chloride	MW-4	10/02/2008		11.1	1.0	ug/L
Vinyl chloride	MW-4	12/13/2008		6.7	1.0	ug/L
Vinyl chloride	MW-4	3/04/2009		4.4	1.0	ug/L
Vinyl chloride	MW-4	9/17/2009		8.3	1.0	ug/L
Vinyl chloride	MW-4	11/06/2009		4.4	1.0	ug/L
Vinyl chloride	MW-4	4/05/2010		16.1	1.0	ug/L
Vinyl chloride	MW-4	10/08/2010		5.0	1.0	ug/L
Vinyl chloride	MW-4	4/13/2011		2.9	1.0	ug/L
Vinyl chloride	MW-4	9/22/2011		3.9	1.0	ug/L
Vinyl chloride	MW-4	4/09/2012		1.6	1.0	ug/L
Vinyl chloride	MW-4	9/05/2012		4.0	1.0	ug/L
Vinyl chloride	MW-4	4/26/2013		2.3	1.0	ug/L
Vinyl chloride	MW-4	4/10/2014		1.7	1.0	ug/L
Vinyl chloride	MW-4	10/16/2014		4.9	1.0	ug/L
Vinyl chloride	MW-4	4/04/2015		1.3	1.0	ug/L
Vinyl chloride	MW-4	10/01/2015		2.3	1.0	ug/L
Vinyl chloride	MW-4	9/20/2016		2.2	1.0	ug/L
Vinyl chloride	MW-4	10/09/2017		1.8	1.0	ug/L
Vinyl chloride	MW-4	3/21/2018		1.8	1.0	ug/L
Vinyl chloride	MW-4	9/07/2018		1.9	1.0	ug/L
Vinyl chloride	MW-4	4/02/2019		1.8	1.0	ug/L
Vinyl chloride	MW-4	9/18/2019		1.8	1.0	ug/L
Vinyl chloride	MW-4	3/25/2020		1.0	1.0	ug/L
Vinyl chloride	MW-4	9/15/2020		3.3	1.0	ug/L
Vinyl chloride	MW-4	9/28/2021		2.8	1.0	ug/L
Vinyl chloride	MW-4	8/30/2022		1.8	1.0	ug/L
Alpha-bhc	MW-5	3/25/2020		8.52	.05	ug/L
Bis(2-ethylhexyl) phthalate	MW-5	9/20/2016		10	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-5	3/25/2020		8	6	ug/L
Chloroethane	MW-5	4/23/2008		3.9	1.0	ug/L
Chloroethane	MW-5	6/23/2008		6.3	1.0	ug/L
Chloroethane	MW-5	8/13/2008		4.4	1.0	ug/L
Chloroethane	MW-5	10/02/2008		7.6	1.0	ug/L
Chloroethane	MW-5	12/13/2008		8.1	1.0	ug/L
Chloroethane	MW-5	3/04/2009		4.7	1.0	ug/L
Chloroethane	MW-5	9/17/2009		5.4	1.0	ug/L
Chloroethane	MW-5	11/06/2009		7.2	1.0	ug/L
Chloroethane	MW-5	4/05/2010		4.8	1.0	ug/L
Chloroethane	MW-5	4/13/2011		3.3	1.0	ug/L
Chloroethane	MW-5	9/22/2011		2.9	1.0	ug/L
Chloroethane	MW-5	9/05/2012		1.0	1.0	ug/L
Chloroethane	MW-5	4/26/2013		1.5	1.0	ug/L
Chloroethane	MW-5	9/26/2013		2.1	1.0	ug/L
Chloroethane	MW-5	4/10/2014		1.3	1.0	ug/L
Chloroethane	MW-5	10/16/2014		3.2	1.0	ug/L
Chloroethane	MW-5	10/01/2015		2.0	1.0	ug/L
Chloroethane	MW-5	4/04/2016		2.7	1.0	ug/L
Chloroethane	MW-5	4/24/2017		1.9	1.0	ug/L
Chloroethane	MW-5	4/02/2019		1.0	1.0	ug/L
Chloroethane	MW-5	6/05/2019		1.3	1.0	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Chloroethane	MW-5	9/18/2019		2.0	1.0	ug/L
Chloroethane	MW-5	3/25/2020		2.0	1.0	ug/L
Chloroethane	MW-5	9/15/2020		1.9	1.0	ug/L
Chloroethane	MW-5	3/08/2021		1.8	1.0	ug/L
Chloroethane	MW-5	8/30/2022		2.7	1.0	ug/L
Chloroethane	MW-5	3/07/2023		3.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-5	4/23/2008		1.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-5	6/23/2008		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-5	12/13/2008		1.0	1.0	ug/L
Di-n-octyl phthalate	MW-5	9/20/2016		64	8	ug/L
1,1-dichloroethylene	MW-9	1/24/1994		4.1	1.0	ug/L
Benzene	MW-9	1/24/1994		2.7	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-9	4/10/2014		9	8	ug/L
Trichloroethylene	MW-9	1/24/1994		4.4	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 F

Assessment Statistics for Verified VOC Detections

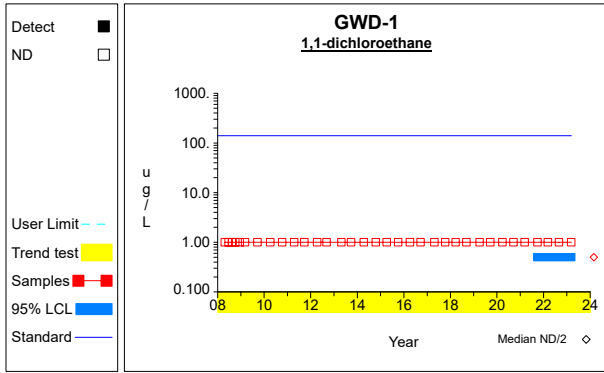
Table 1

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

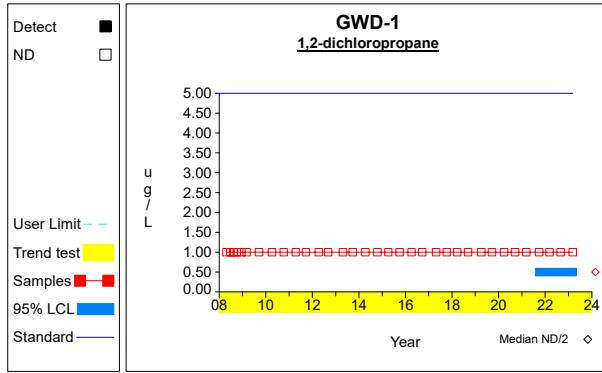
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
1,1-dichloroethane	ug/L	GWD-1	4	0.500	0.000	1.176	0.500	0.500	140.000	
1,2-dichloropropane	ug/L	GWD-1	4	0.500	0.000	1.176	0.500	0.500	5.000	
1,4-dichlorobenzene	ug/L	GWD-1	4	0.500	0.000	1.176	0.500	0.500	75.000	
Acetone	ug/L	GWD-1	4	5.000	0.000	1.176	5.000	5.000	6300.000	
Benzene	ug/L	GWD-1	4	0.500	0.000	1.176	0.500	0.500	5.000	
Bis(2-ethylhexyl) phthalate	ug/L	GWD-1	0							*
Chloroethane	ug/L	GWD-1	4	0.500	0.000	1.176	0.500	0.500	2800.000	
Cis-1,2-dichloroethylene	ug/L	GWD-1	4	0.500	0.000	1.176	0.500	0.500	70.000	
Vinyl chloride	ug/L	GWD-1	4	0.700	0.400	1.176	0.229	1.171	2.000	
1,1-dichloroethane	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	140.000	
1,2-dichloropropane	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	5.000	
1,4-dichlorobenzene	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	75.000	
Acetone	ug/L	MW-21	4	5.000	0.000	1.176	5.000	5.000	6300.000	
Benzene	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	5.000	
Bis(2-ethylhexyl) phthalate	ug/L	MW-21	3							*
Chloroethane	ug/L	MW-21	4	0.850	0.436	1.176	0.337	1.363	2800.000	
Cis-1,2-dichloroethylene	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	70.000	
Vinyl chloride	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	2.000	
1,1-dichloroethane	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	140.000	
1,2-dichloropropane	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	5.000	
1,4-dichlorobenzene	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	75.000	
Acetone	ug/L	MW-22	4	5.000	0.000	1.176	5.000	5.000	6300.000	
Benzene	ug/L	MW-22	4	1.225	0.634	1.176	0.479	1.971	5.000	
Bis(2-ethylhexyl) phthalate	ug/L	MW-22	3							*
Chloroethane	ug/L	MW-22	4	0.675	0.350	1.176	0.263	1.087	2800.000	
Cis-1,2-dichloroethylene	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	70.000	
Vinyl chloride	ug/L	MW-22	4	0.850	0.412	1.176	0.365	1.335	2.000	
1,1-dichloroethane	ug/L	MW-4	4	0.650	0.300	1.176	0.297	1.003	140.000	
1,2-dichloropropane	ug/L	MW-4	4	0.875	0.450	1.176	0.346	1.404	5.000	
1,4-dichlorobenzene	ug/L	MW-4	4	5.525	0.629	1.176	4.785	6.265	75.000	
Acetone	ug/L	MW-4	4	14.600	19.200	1.176	0.000	37.185	6300.000	
Benzene	ug/L	MW-4	4	1.450	0.208	1.176	1.205	1.695	5.000	dec
Bis(2-ethylhexyl) phthalate	ug/L	MW-4	4	8.000	3.559	1.176	3.814	12.186	6.000	
Chloroethane	ug/L	MW-4	4	1.725	0.538	1.176	1.092	2.358	2800.000	dec
Cis-1,2-dichloroethylene	ug/L	MW-4	4	1.900	1.890	1.176	0.000	4.124	70.000	
Vinyl chloride	ug/L	MW-4	4	1.400	1.117	1.176	0.087	2.713	2.000	dec
1,1-dichloroethane	ug/L	MW-5	4	0.500	0.000	1.176	0.500	0.500	140.000	
1,2-dichloropropane	ug/L	MW-5	4	0.500	0.000	1.176	0.500	0.500	5.000	
1,4-dichlorobenzene	ug/L	MW-5	4	0.500	0.000	1.176	0.500	0.500	75.000	
Acetone	ug/L	MW-5	4	5.000	0.000	1.176	5.000	5.000	6300.000	
Benzene	ug/L	MW-5	4	0.500	0.000	1.176	0.500	0.500	5.000	
Bis(2-ethylhexyl) phthalate	ug/L	MW-5	4	4.250	2.500	1.176	1.309	7.191	6.000	
Chloroethane	ug/L	MW-5	4	1.700	1.395	1.176	0.059	3.341	2800.000	dec
Cis-1,2-dichloroethylene	ug/L	MW-5	4	0.500	0.000	1.176	0.500	0.500	70.000	
Vinyl chloride	ug/L	MW-5	4	0.500	0.000	1.176	0.500	0.500	2.000	

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

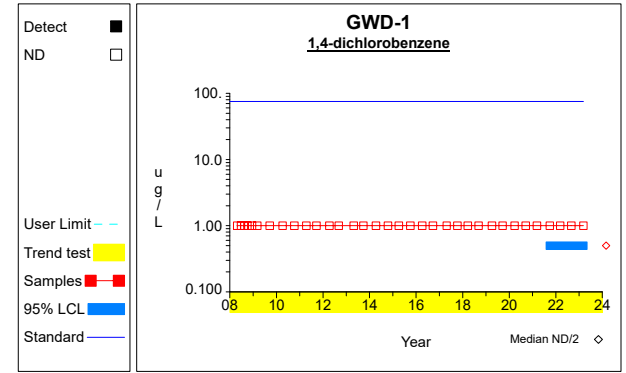
Confidence Limits (Assessment)



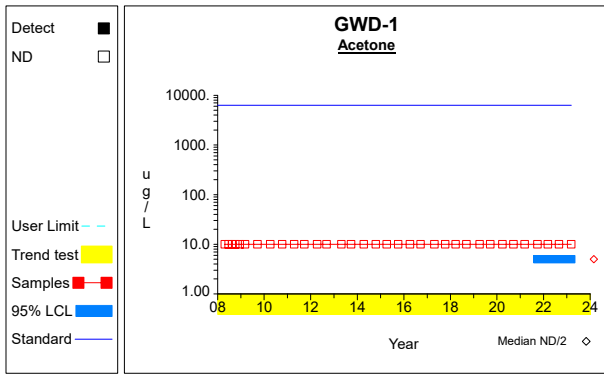
Graph 1



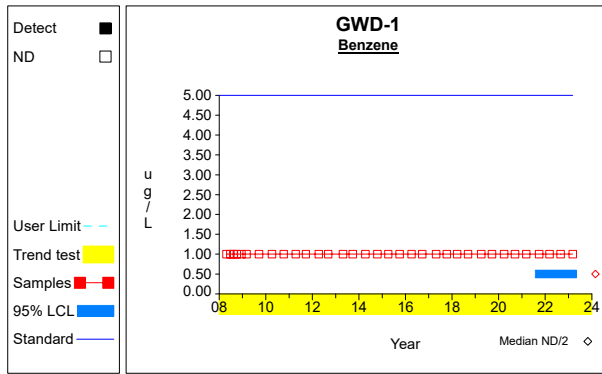
Graph 2



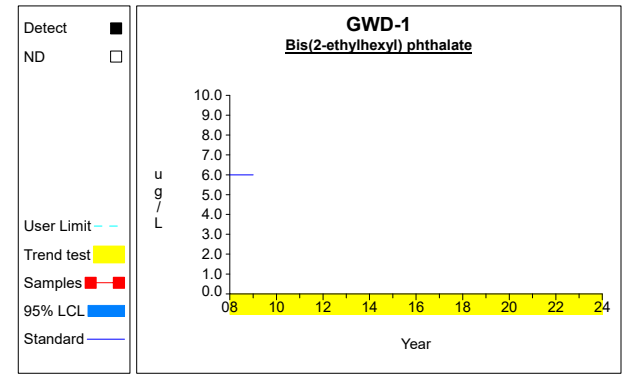
Graph 3



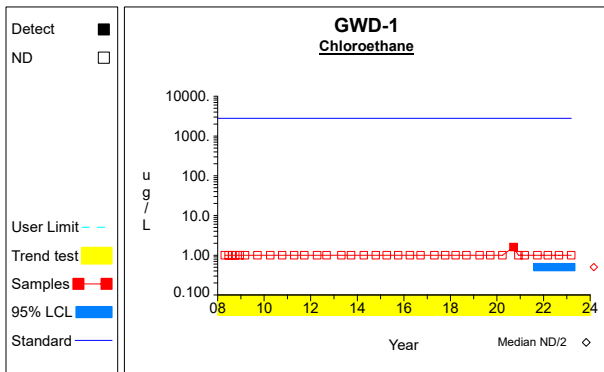
Graph 4



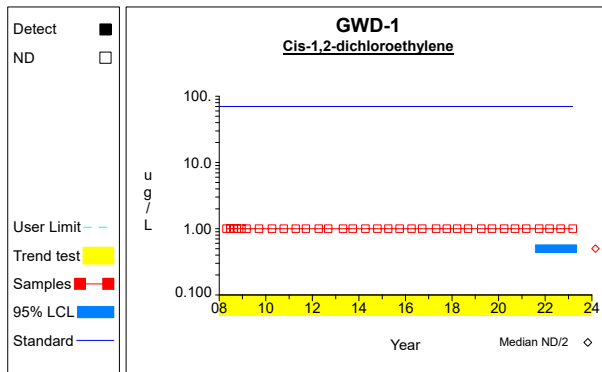
Graph 5



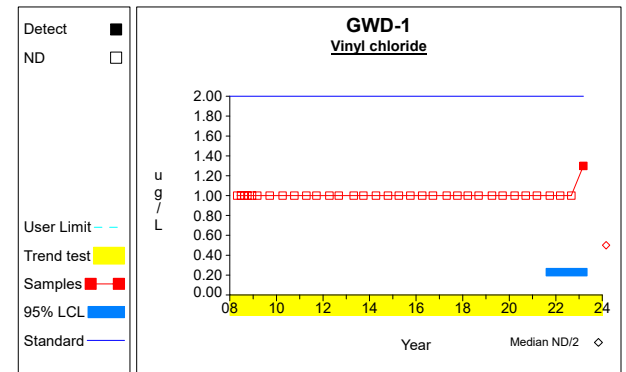
Graph 6



Graph 7

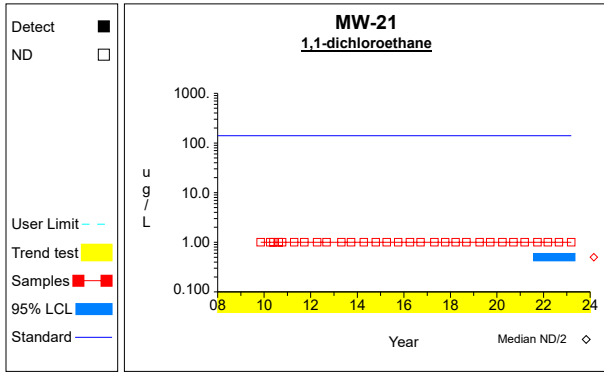


Graph 8

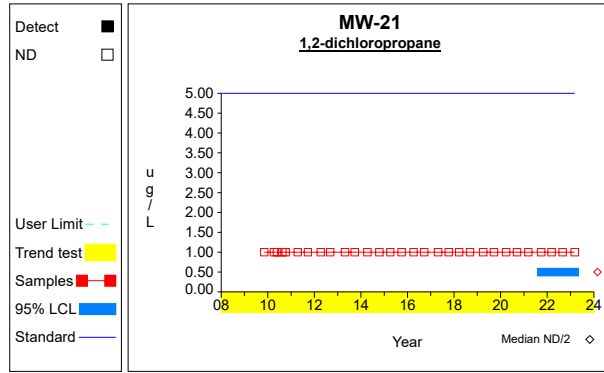


Graph 9

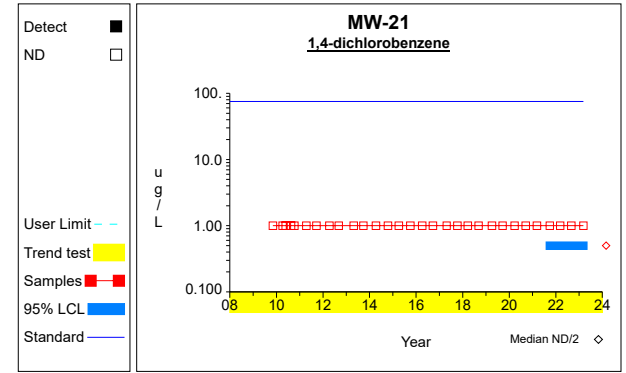
Confidence Limits (Assessment)



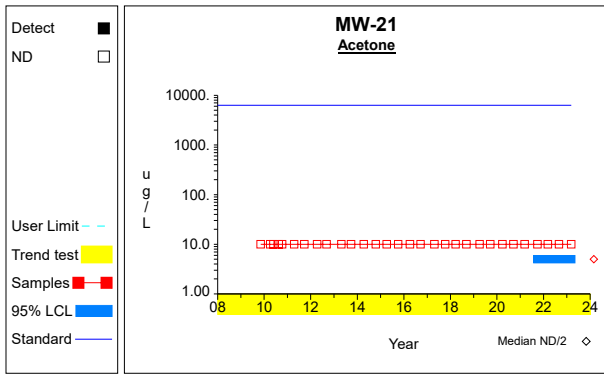
Graph 10



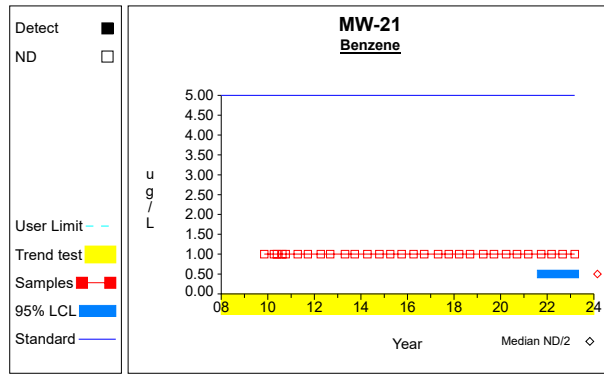
Graph 11



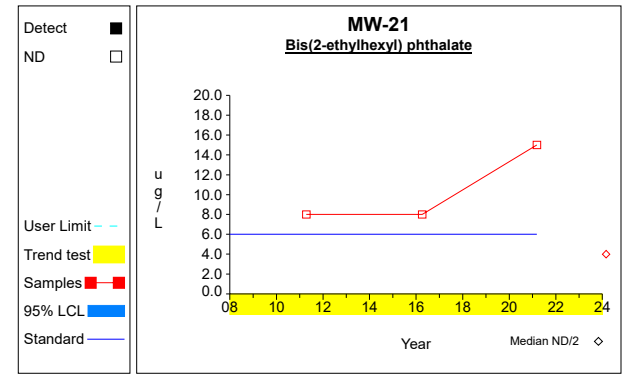
Graph 12



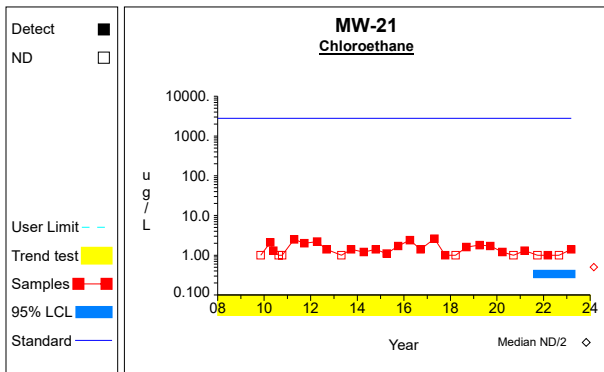
Graph 13



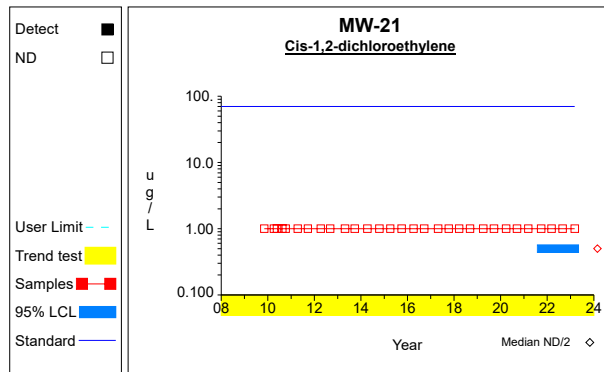
Graph 14



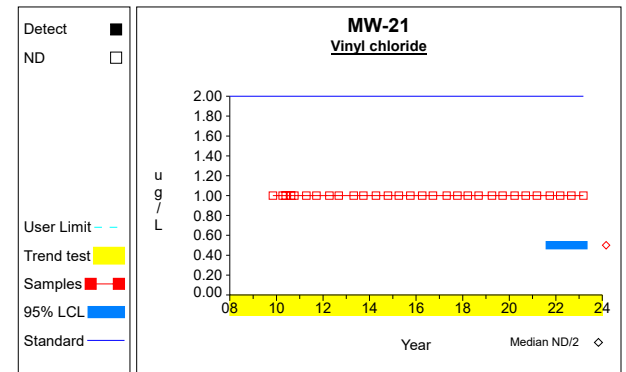
Graph 15



Graph 16

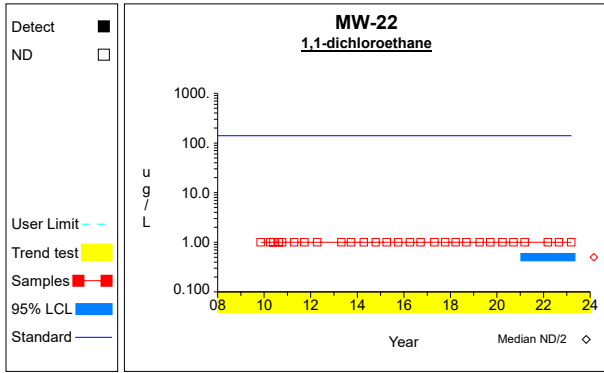


Graph 17

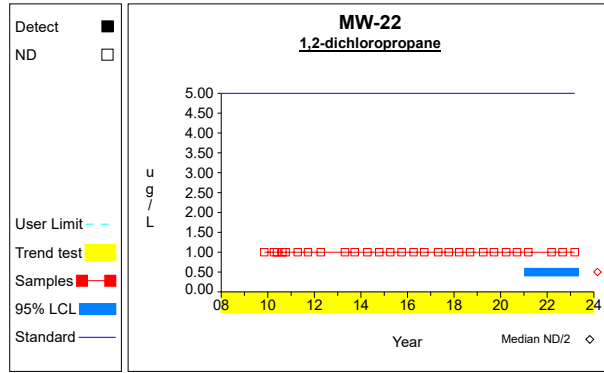


Graph 18

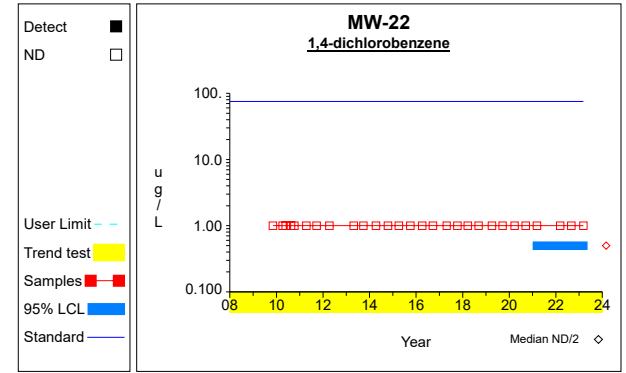
Confidence Limits (Assessment)



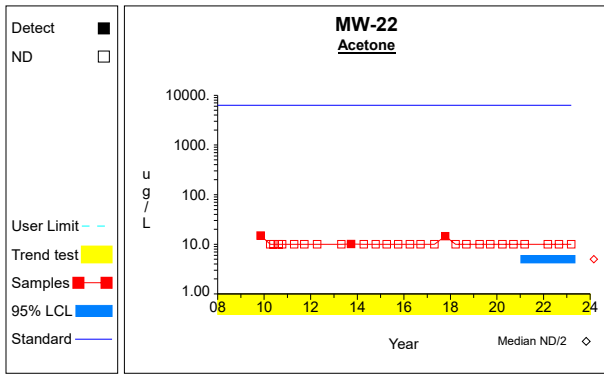
Graph 19



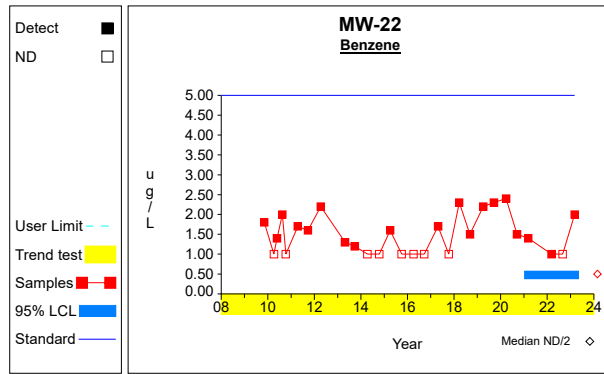
Graph 20



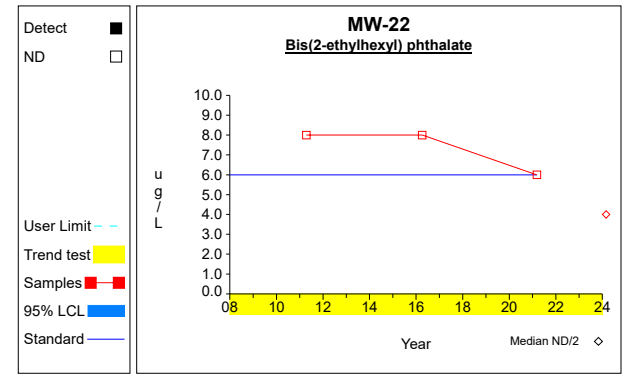
Graph 21



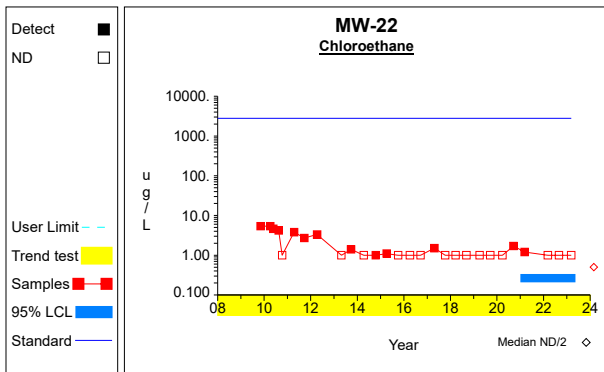
Graph 22



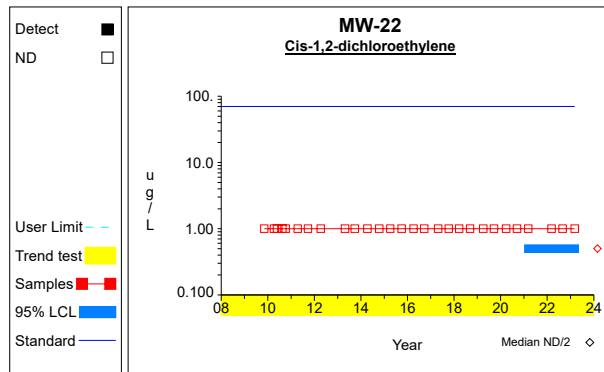
Graph 23



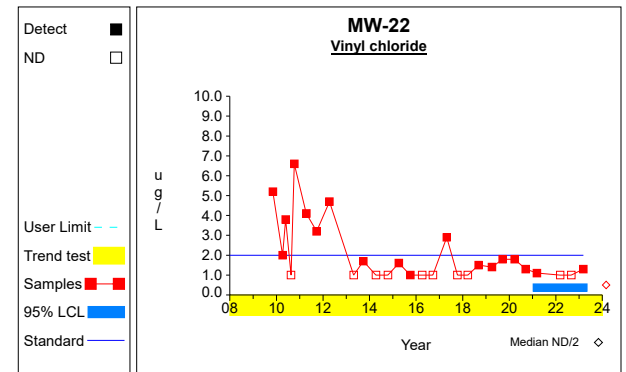
Graph 24



Graph 25

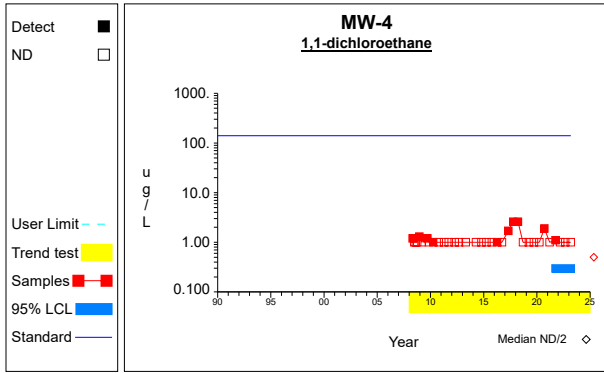


Graph 26

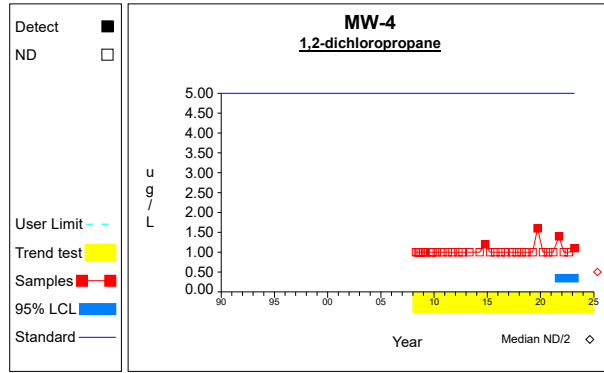


Graph 27

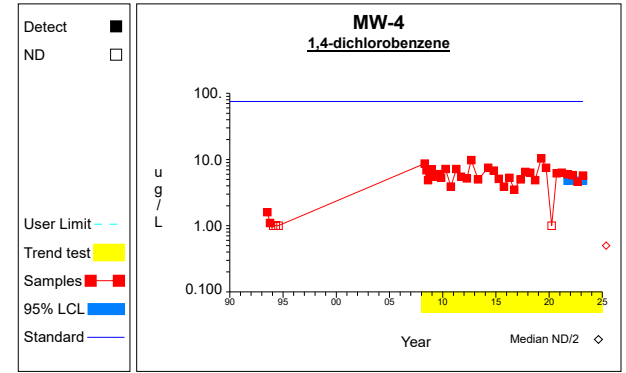
Confidence Limits (Assessment)



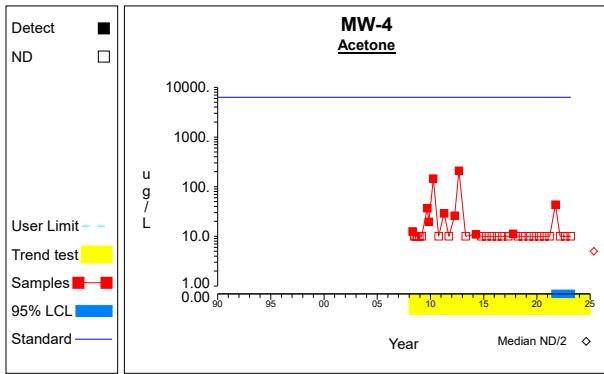
Graph 28



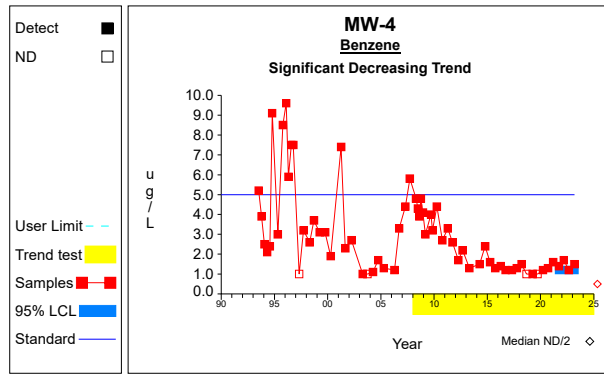
Graph 29



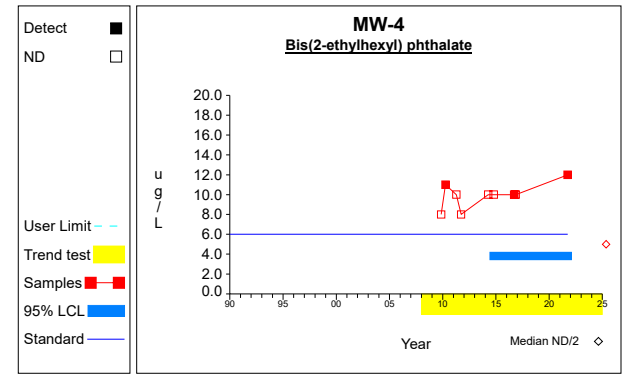
Graph 30



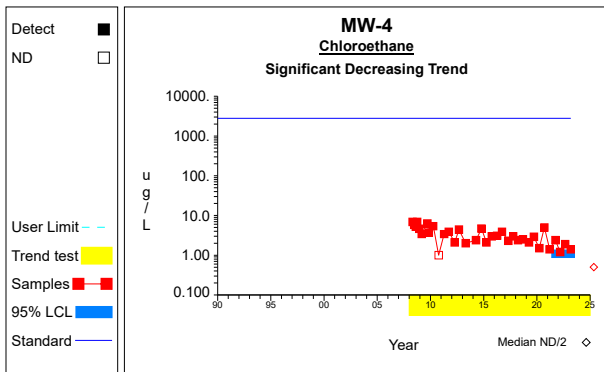
Graph 31



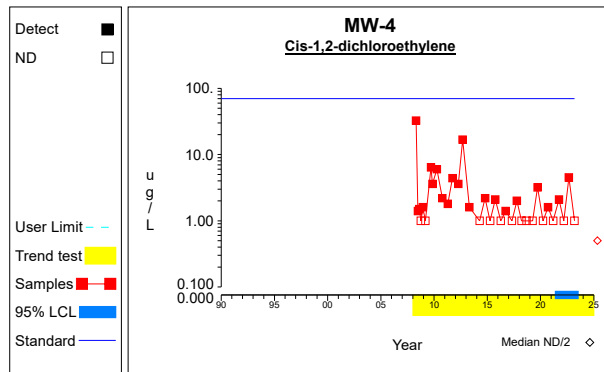
Graph 32



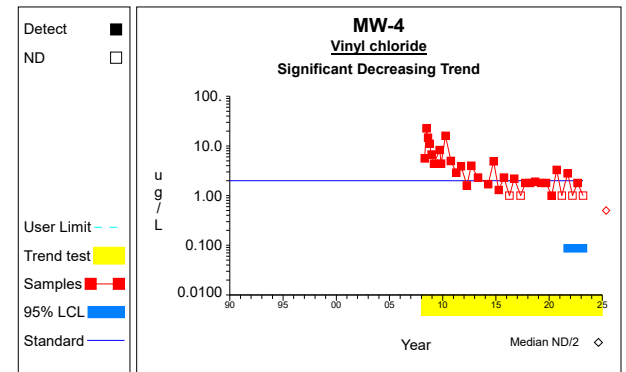
Graph 33



Graph 34

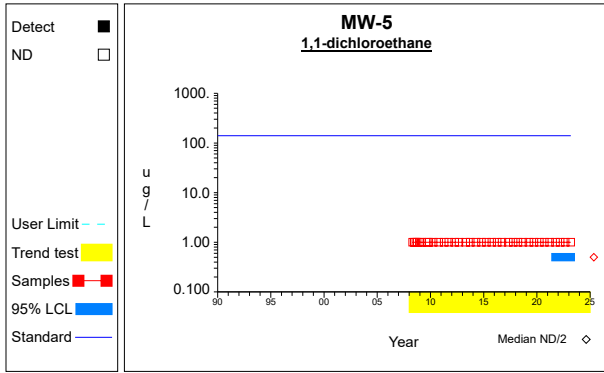


Graph 35

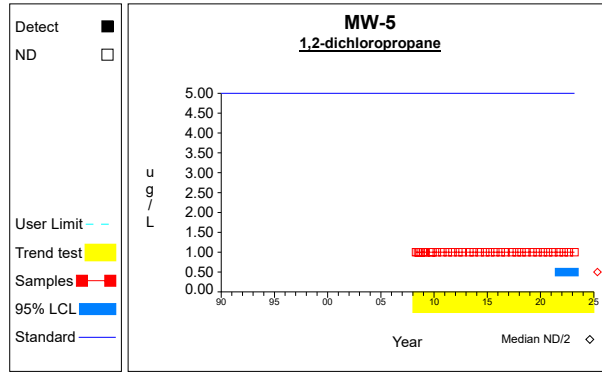


Graph 36

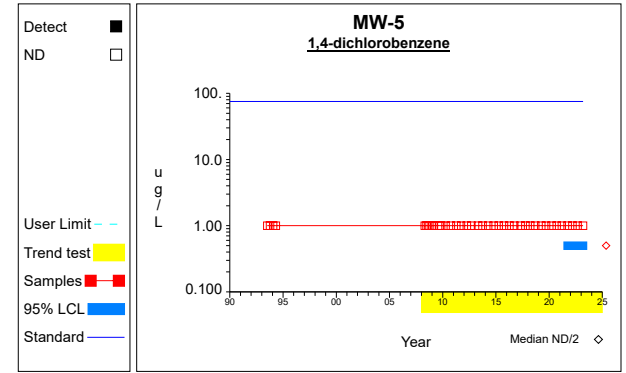
Confidence Limits (Assessment)



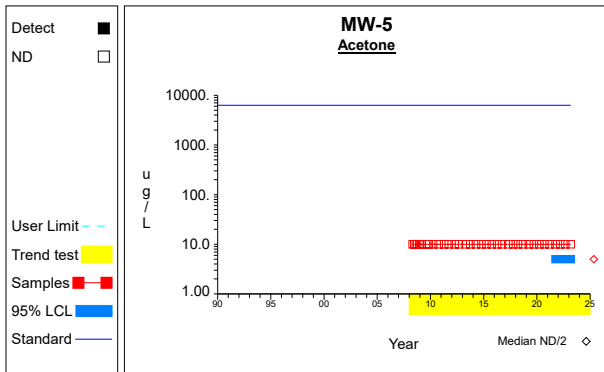
Graph 37



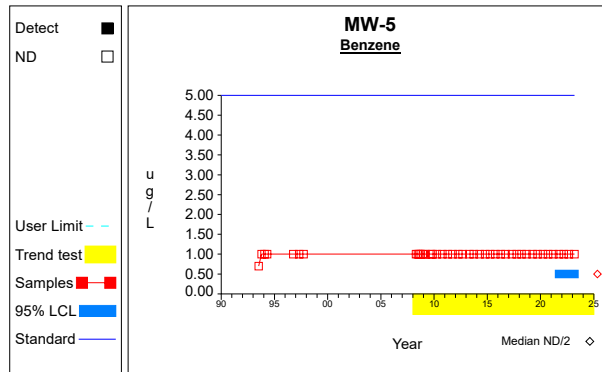
Graph 38



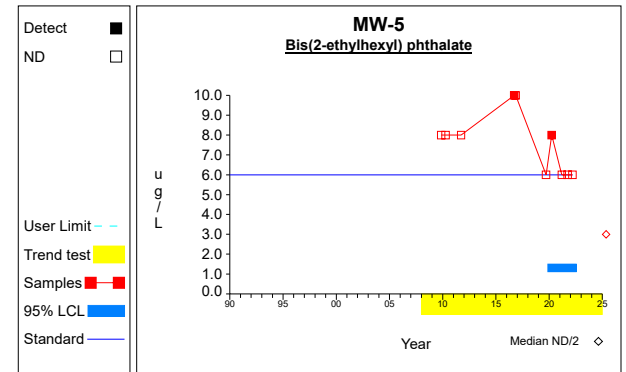
Graph 39



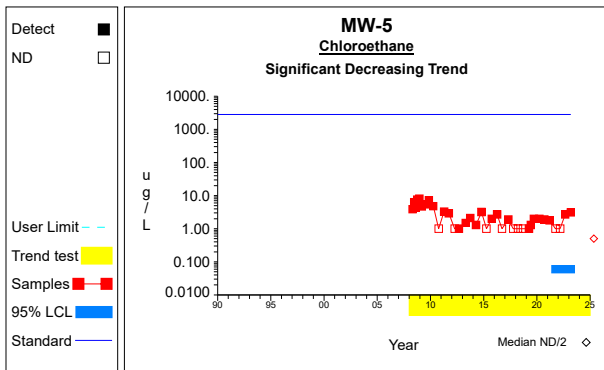
Graph 40



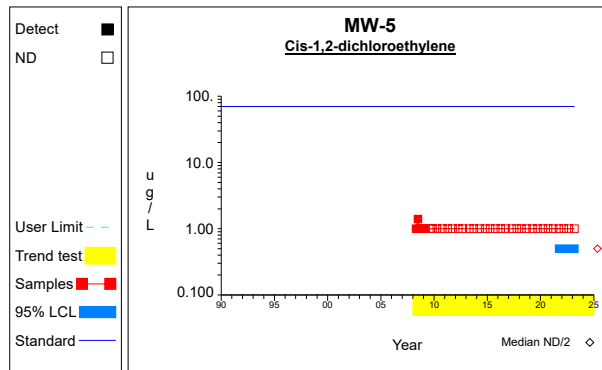
Graph 41



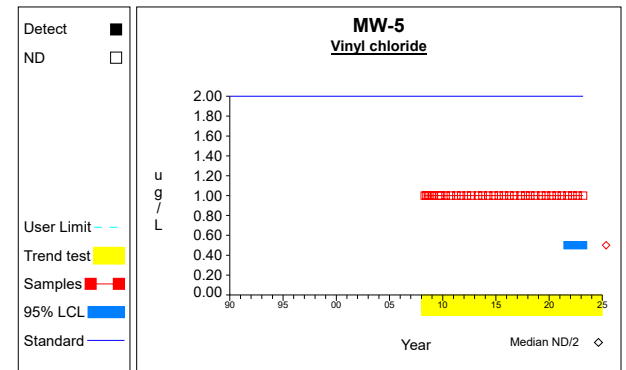
Graph 42



Graph 43



Graph 44



Graph 45

Appendix B.2 –2nd Statistical Evaluation

GROUND WATER STATISTICS

FOR THE

SOUTH DALLAS COUNTY SANITARY LANDFILL

Second Semi-Annual Monitoring Event in 2023

Prepared for:
South Dallas County Sanitary Landfill
2000 Main Street
Adel, Dallas County, IA 50003

Prepared by:
Jeffrey A. Holmgren
Otter Creek Environmental Services, LLC
40W565 Foxwick Court
Elgin, IL 60124
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October 2023

INTRODUCTION

This report summarizes the results of the statistical analysis used to evaluate the ground water quality data obtained during the second semi-annual monitoring event in 2023 at the South Dallas County Sanitary Landfill in Adel, Dallas County, Iowa. The statistical plan was designed to detect a release from the facility at the earliest indication so that it is protective of human health and the environment. The interwell methodology is described and then applied to the South Dallas County Landfill data. The statistical plan conforms with IAC 567, Chapter 113.10 and the USEPA Unified Guidance document (“*Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities*”, March 2009).

Ground Water Monitoring Program

The groundwater monitoring network for South Dallas County Sanitary Landfill includes upgradient wells MW-2, MW-17, and MW-19A and downgradient detection sample points MW-10, MW-12, MW-15R, MW-18, MW-20R, MW-21, MW-22, MW-24, MW-4, MW-5, and MW-9. Each of the groundwater monitoring wells is to be sampled at least semiannually and analyzed for the detection monitoring parameters listed in 113.10(5), which includes 15 inorganic constituents and 47 organic compounds, summarized in Table 1 below.

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

Organic Compounds:

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

Inorganic constituents:

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

The ground water data obtained during the second semi-annual monitoring event in 2023 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 the interwell and intrawell methods were applied to the South Dallas Landfill data using the DUMPStat[®] statistical program. Ground water statistics are to be done on the inorganic constituents listed. The organic constituents are compared to maximum contaminant levels (MCLs) or practical quantitation limits (PQLs), in lieu of statistical comparisons to historical concentrations.

Interwell Statistics: Upgradient versus Downgradient Comparisons

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

The previous background data used in this statistical analysis included the ground water data collected from ground water wells MW-2, MW-17, and MW-19A during the period from October 2014 through April 2018. Since then, wells MW-18, MW-24, and MW-9 have been approved as background wells. The background data used in this statistical analysis includes the ground water data collected from ground water wells MW-2, MW-17, MW-18, MW-19A, MW-24, and MW-9 during the period from October 2014 through the current data. A summary of the background data from monitoring wells MW-2, MW-17, MW-18, MW-19A, MW-24, and MW-9, used to determine the site prediction limits, is listed in Attachment B, Table 1 “Upgradient Data”. This statistical method compares the current downgradient determinations to site prediction limits and checks for exceedances.

Table 2 “Most Current Downgradient Monitoring Data”, summarizes the current data from downgradient wells MW-12, MW-15R, MW-20R, MW-21, MW-4, and MW-5 compared to the site prediction limits. Prediction limit exceedances are flagged with asterisks. For the data obtained during the second semi-annual monitoring event in 2023, the site prediction limit exceedances detected are summarized in the table below.

Summary of Prediction Limit Exceedances for the Second Semi-Annual Monitoring Event in 2023

Well	Trace Metal	Result, µg/L	Prediction Limit	Prediction Limit Type	Verified or Awaiting Verification
MW-4	Chromium	33.9	11.6000	Nonparametric	Awaiting Verification
	Nickel	52.8	22.3381	Normal	Awaiting Verification

The detection frequencies of the parameters in the up and down gradient monitoring wells are summarized in Table 3. Barium, cobalt, and nickel are detected at a frequency greater than 50% in the upgradient wells so those metals were tested for normality. The remainder of the metals are rarely detected (less than 50%) in the upgradient wells so nonparametric limits were used in those cases. Table 4 summarizes the results of the Shapiro-Wilk test. Table 5 is a summary of the statistics and prediction limits determined for the metals. Time series graphs of each of the parameters at each well with the corresponding prediction limits are attached.

A statistical power curve indicates the expected false assessments for the site as a whole. The false positive rate for interwell analyses is the percentage of failures when the upgradient versus downgradient true mean difference equals zero. False negative rate indicates the chance of missing contamination at a single well for a single constituent. The statistical power is a function of the number of wells included, the number of constituents compared, the detection frequencies, and the data distributions involved. For interwell analysis, the site-wide false positive rate is 1% and the test becomes sensitive to 3 standard deviation unit increases over background.

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

Compliance wells

The 95% LCL for arsenic at MW-15R (18.424 µg/L) exceeds the USEPA MCL of 10 µg/L.

The 95% LCL for arsenic at MW-20R (40.734 µg/L) exceeds the USEPA MCL of 10 µg/L.

The 95% LCL for arsenic at MW-4 (44.046 µg/L) exceeds the USEPA MCL of 10 µg/L.

Background wells

The 95% LCL for arsenic at MW-18 (16.516 µg/L) exceeds the USEPA MCL of 10 µg/L.

The 95% LCL for cobalt at MW-18 (4.749 µg/L) exceeds the Iowa Statewide Standard of 2.1 µg/L.

The 95% LCL for arsenic at MW-24 (17.449 µg/L) exceeds the USEPA MCL of 10 µg/L.

The 95% LCL for cobalt at MW-9 (4.805 µg/L) exceeds the Iowa Statewide Standard of 2.1 µg/L.

The remainder of the calculated LCLs are below ground water quality standards.

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. As an alternative to nonparametric prediction limits, Poisson prediction limits can be used for small data sets where the detection frequency is less than 25%.

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. If the Dixon test indicates an outlier, the value is compared to three times the median value for intrawell analyses. If the

value fails both criteria of the two-stage screening, the value is considered a statistical outlier and will not be used in the mean and variance determinations. 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 landfill 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 Appendix I trace metals data from compliance wells MW-12, MW-15R, MW-20R, MW-21, MW-4, and MW-5 were evaluated using the combined Shewhart-CUSUM control chart method. The previous background included the data obtained from October 2014 through June 2018. Because there were eight rounds or fewer of background, there was insufficient data to determine nonparametric limits for those rarely detected parameters. Nonparametric prediction limits are the largest value detected during background at that well for that parameter. Since thirteen independent measurements (with 1 resample) are necessary to achieve a 99% confidence (1% false positive rate) nonparametric prediction limit, the background was updated to include data obtained from October 2014 through 2020.

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 parameters evaluated, the control limit exceedances detected are summarized in the table below.

Summary of statistical limit exceedances during the second semi-annual monitoring period in 2023

Well	Parameter	Result	CUSUM Value	Control limit	Control Limit Type	Verified/Awaiting Verification
MW-4	Cadmium	1.8	--	1.7000	Nonparametric	Awaiting Verification
	Chromium	33.9	--	8.0000	Nonparametric	Awaiting Verification
	Cobalt	10.9	11.8719	8.2800	Normal	Awaiting Verification
	Copper	8.7	--	4.6000	Nonparametric	Awaiting Verification
	Nickel	52.8	--	11.3000	Nonparametric	Awaiting Verification
MW-5	Arsenic	71.1	134.5442	128.7478	Normal	Awaiting Verification
	Copper	9.6	12.8871	11.0072	Normal	Awaiting Verification

An increasing trend was detected in the background data for barium at MW-5.

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. Given an accepted resample verification plan of “pass one of one” resamples, the number of statistical comparisons, and the number of background data points, the optimal factor $h = SCL = 6.5$ for $N < 12$. Using this factor

for intrawell analysis, the site-wide false positive rate is 15% and the test becomes sensitive to 4 standard deviation units over background.

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 South Dallas County Landfill during the second semi-annual monitoring event in 2023 are summarized below.

VOCs detected at South Dallas County Landfill during the second semi-annual monitoring event in 2023

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting Verification	Groundwater Standard, µg/L
MW-4	1,2-Dichloropropane	1.0	1	Verified	5 ^a
	1,4-Dichlorobenzene	7.4	1	Verified	75 ^a
	Benzene	1.7	1	Verified	5 ^a
	Chloroethane	2.0	1	Verified	2800 ^b
	<i>cis</i> -1,2-Dichloroethene	2.7	1	Awaiting Verification	70 ^a
	Vinyl chloride	4.2	1	Awaiting Verification	2 ^a

a - USEPA MCL

b - Iowa Statewide Standard

Cis-1,2-Dichloroethene and vinyl chloride have been detected multiple times at MW-4 but were last detected at MW-22 in August 2022.

These VOCs are often associated with landfill gas migration. Historical VOC detections are summarized in Attachment E. The verified VOC detections were evaluated against the ground water protection standards (GWPS) using confidence limits calculated in accordance with the Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, USEPA, March 2009 (Attachment F). The calculated LCLs are all below ground water quality standards for each of the verified detections.

CONCLUSIONS

This report summarizes the statistical analyses used to evaluate the ground water data obtained during the second semi-annual monitoring event in 2023 at South Dallas County Sanitary Landfill. Monitoring wells MW-12, MW-15R, MW-17, MW-18, MW-19A, MW-20R, MW-21, MW-24, MW-4, MW-5, and MW-9 were sampled on September 11, 2023 and analyzed for the parameters required by permit. The ground water data was compared to background using prediction limits. There are site prediction limit exceedances detected for chromium and nickel at MW-4 awaiting verification. Using intrawell comparisons, there are control limit exceedances for cadmium, chromium, cobalt, copper, and nickel at MW-4 and arsenic and copper at MW-5 awaiting verification.

The VOCs were compared to MCLs or PQLs, in lieu of statistical comparisons to historical concentrations. There are detections of 1,2-dichloropropane, 1,4-dichlorobenzene, benzene, chloroethane, *cis*-1,2-dichloroethene, and vinyl chloride at MW-4.

Attachment A

Summary of the Data obtained during the Second Semi-Annual Monitoring Event in 2023

Table 1

Analytical Data Summary for 9/11/2023

Constituents	Units	MW-12	MW-15R	MW-17	MW-18	MW-19A	MW-20R	MW-21	MW-24	MW-25	MW-26	MW-4	MW-5	MW-9
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5			<5	<5	<5
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			1	<1	<1
1,4-dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			7.4	<1.0	<1.0
2-butanone (mek)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5			<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5			<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5			<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2			<2	<2	<2
Arsenic, total	ug/L	8.7	20.1	<4.0	18.7	<4.0	41.8	<4.0	57.9	<4.0	101.0	60.7	71.1	7.2
Barium, total	ug/L	285.0	354.0	149.0	709.0	32.1	650.0	465.0	508.0	118.0	1250.0	1010.0	302.0	288.0
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			1.7	<1.0	<1.0
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4			<4	<4	<4
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Cadmium, total	ug/L	<8	<8	<8	<8	9.0	<8	<8	<8			1.8	<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			2	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0			33.9	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			2.7	<1.0	<1.0
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Cobalt, total	ug/L	1.8	3.8	.6	11.3	<4	.4	.4	1.2			10.9	2.7	5.3
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0			8.7	9.6	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4			<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5			<5	<5	<5
Nickel, total	ug/L	4.1	4.2	5.9	19.5	9.6	<4.0	5.3	<4.0			52.8	<4.0	9.8
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4			<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4			<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Thallium, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2			<2	<2	<2
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1

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

Table 1

Analytical Data Summary for 9/11/2023

Constituents	Units	MW-12	MW-15R	MW-17	MW-18	MW-19A	MW-20R	MW-21	MW-24	MW-25	MW-26	MW-4	MW-5	MW-9
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5			<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20			<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5			<5	<5	<5
Vinyl chloride	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.2	<1.0	<1.0
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0			75.7	<20.0	<20.0

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

Attachment B

Summary Tables and Graphs for the Interwell Comparisons

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW-17	10/16/2014	ND	2.0000		
Antimony, total	ug/L	MW-17	04/04/2015	ND	2.0000		
Antimony, total	ug/L	MW-17	10/01/2015	ND	2.0000		
Antimony, total	ug/L	MW-17	04/04/2016	ND	2.0000		
Antimony, total	ug/L	MW-17	09/20/2016	ND	2.0000		
Antimony, total	ug/L	MW-17	04/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-17	10/09/2017	ND	2.0000		
Antimony, total	ug/L	MW-17	03/21/2018	ND	2.0000		
Antimony, total	ug/L	MW-17	09/07/2018	ND	2.0000		
Antimony, total	ug/L	MW-17	04/02/2019	ND	2.0000		
Antimony, total	ug/L	MW-17	09/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-17	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-17	09/15/2020	ND	2.0000		
Antimony, total	ug/L	MW-17	03/08/2021	ND	2.0000		
Antimony, total	ug/L	MW-17	09/28/2021	ND	2.0000		
Antimony, total	ug/L	MW-17	03/08/2022	ND	2.0000		
Antimony, total	ug/L	MW-17	08/30/2022	ND	2.0000		
Antimony, total	ug/L	MW-17	03/07/2023	ND	2.0000		
Antimony, total	ug/L	MW-17	09/11/2023	ND	2.0000		
Arsenic, total	ug/L	MW-17	10/16/2014	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/04/2015	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/01/2015	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/04/2016	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/20/2016	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/09/2017	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/21/2018		5.0000		
Arsenic, total	ug/L	MW-17	09/07/2018	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/02/2019		4.4000		
Arsenic, total	ug/L	MW-17	09/18/2019	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/25/2020	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/15/2020	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/08/2021	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/28/2021	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/08/2022	ND	4.0000		
Arsenic, total	ug/L	MW-17	08/30/2022	ND	4.0000		
Arsenic, total	ug/L	MW-17	03/07/2023	ND	4.0000		
Arsenic, total	ug/L	MW-17	09/11/2023	ND	4.0000		
Barium, total	ug/L	MW-17	10/16/2014		173.0000		
Barium, total	ug/L	MW-17	04/04/2015		185.0000		
Barium, total	ug/L	MW-17	10/01/2015		142.0000		
Barium, total	ug/L	MW-17	04/04/2016		143.0000		
Barium, total	ug/L	MW-17	09/20/2016		174.0000		
Barium, total	ug/L	MW-17	04/24/2017		172.0000		
Barium, total	ug/L	MW-17	10/09/2017		182.0000		
Barium, total	ug/L	MW-17	03/21/2018		233.0000		
Barium, total	ug/L	MW-17	09/07/2018		131.0000		
Barium, total	ug/L	MW-17	04/02/2019		179.0000		
Barium, total	ug/L	MW-17	09/18/2019		138.0000		
Barium, total	ug/L	MW-17	03/25/2020		123.0000		
Barium, total	ug/L	MW-17	09/15/2020		180.0000		
Barium, total	ug/L	MW-17	03/08/2021		160.0000		
Barium, total	ug/L	MW-17	09/28/2021		179.0000		
Barium, total	ug/L	MW-17	03/08/2022		192.0000		
Barium, total	ug/L	MW-17	08/30/2022		137.0000		
Barium, total	ug/L	MW-17	03/07/2023		162.0000		
Barium, total	ug/L	MW-17	09/11/2023		149.0000		
Beryllium, total	ug/L	MW-17	10/16/2014	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/04/2015	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/01/2015	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/04/2016	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/20/2016	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/09/2017	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/21/2018	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/07/2018	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/02/2019	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/15/2020	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/08/2021	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/28/2021	ND	4.0000		
Beryllium, total	ug/L	MW-17	03/08/2022	ND	4.0000		
Beryllium, total	ug/L	MW-17	08/30/2022	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	
Beryllium, total	ug/L	MW-17	03/07/2023	ND	4.0000		
Beryllium, total	ug/L	MW-17	09/11/2023	ND	4.0000		
Cadmium, total	ug/L	MW-17	10/16/2014	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/04/2015	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/01/2015	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/04/2016		1.0000		
Cadmium, total	ug/L	MW-17	09/20/2016	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/24/2017		0.9000		
Cadmium, total	ug/L	MW-17	10/09/2017	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/21/2018	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/07/2018	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/02/2019	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/15/2020		0.8000		
Cadmium, total	ug/L	MW-17	03/08/2021	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/28/2021		1.1000		
Cadmium, total	ug/L	MW-17	03/08/2022	ND	0.8000		
Cadmium, total	ug/L	MW-17	08/30/2022	ND	0.8000		
Cadmium, total	ug/L	MW-17	03/07/2023	ND	0.8000		
Cadmium, total	ug/L	MW-17	09/11/2023	ND	0.8000		
Chromium, total	ug/L	MW-17	10/16/2014	ND	8.0000		
Chromium, total	ug/L	MW-17	04/04/2015	ND	8.0000		
Chromium, total	ug/L	MW-17	10/01/2015	ND	8.0000		
Chromium, total	ug/L	MW-17	04/04/2016	ND	8.0000		
Chromium, total	ug/L	MW-17	09/20/2016	ND	8.0000		
Chromium, total	ug/L	MW-17	04/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-17	10/09/2017	ND	8.0000		
Chromium, total	ug/L	MW-17	03/21/2018	ND	8.0000		
Chromium, total	ug/L	MW-17	09/07/2018	ND	8.0000		
Chromium, total	ug/L	MW-17	04/02/2019	ND	8.0000		
Chromium, total	ug/L	MW-17	09/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-17	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-17	09/15/2020	ND	8.0000		
Chromium, total	ug/L	MW-17	03/08/2021	ND	8.0000		
Chromium, total	ug/L	MW-17	09/28/2021	ND	8.0000		
Chromium, total	ug/L	MW-17	03/08/2022	ND	8.0000		
Chromium, total	ug/L	MW-17	08/30/2022	ND	8.0000		
Chromium, total	ug/L	MW-17	03/07/2023	ND	8.0000		
Chromium, total	ug/L	MW-17	09/11/2023	ND	8.0000		
Cobalt, total	ug/L	MW-17	10/16/2014		8.1000		
Cobalt, total	ug/L	MW-17	04/04/2015		9.7000		
Cobalt, total	ug/L	MW-17	10/01/2015		7.0000		
Cobalt, total	ug/L	MW-17	04/04/2016		4.6000		
Cobalt, total	ug/L	MW-17	09/20/2016		4.3000		
Cobalt, total	ug/L	MW-17	04/24/2017		5.2000		
Cobalt, total	ug/L	MW-17	10/09/2017		6.9000		
Cobalt, total	ug/L	MW-17	03/21/2018		23.0000		
Cobalt, total	ug/L	MW-17	09/07/2018		8.6000		
Cobalt, total	ug/L	MW-17	04/02/2019		46.5000	*	
Cobalt, total	ug/L	MW-17	09/18/2019		54.8000	*	
Cobalt, total	ug/L	MW-17	03/25/2020		7.2000		
Cobalt, total	ug/L	MW-17	09/15/2020		11.3000		
Cobalt, total	ug/L	MW-17	03/08/2021		7.4000		
Cobalt, total	ug/L	MW-17	09/28/2021		13.4000		
Cobalt, total	ug/L	MW-17	03/08/2022		5.5000		
Cobalt, total	ug/L	MW-17	08/30/2022		1.5000		
Cobalt, total	ug/L	MW-17	03/07/2023		13.0000		
Cobalt, total	ug/L	MW-17	09/11/2023		0.6000		*
Copper, total	ug/L	MW-17	10/16/2014		4.6000		
Copper, total	ug/L	MW-17	04/04/2015	ND	4.0000		
Copper, total	ug/L	MW-17	10/01/2015	ND	4.0000		
Copper, total	ug/L	MW-17	04/04/2016	ND	4.0000		
Copper, total	ug/L	MW-17	09/20/2016	ND	4.0000		
Copper, total	ug/L	MW-17	04/24/2017	ND	4.0000		
Copper, total	ug/L	MW-17	10/09/2017		5.3000		
Copper, total	ug/L	MW-17	03/21/2018		4.3000		
Copper, total	ug/L	MW-17	09/07/2018	ND	4.0000		
Copper, total	ug/L	MW-17	04/02/2019	ND	4.0000		
Copper, total	ug/L	MW-17	09/18/2019	ND	4.0000		
Copper, total	ug/L	MW-17	03/25/2020		4.2000		
Copper, total	ug/L	MW-17	09/15/2020		4.3000		
Copper, total	ug/L	MW-17	03/08/2021	ND	4.0000		
Copper, total	ug/L	MW-17	09/28/2021		7.4000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Copper, total	ug/L	MW-17	03/08/2022		4.0000		
Copper, total	ug/L	MW-17	08/30/2022	ND	4.0000		
Copper, total	ug/L	MW-17	03/07/2023	ND	4.0000		
Copper, total	ug/L	MW-17	09/11/2023	ND	4.0000		
Lead, total	ug/L	MW-17	10/16/2014	ND	4.0000		
Lead, total	ug/L	MW-17	04/04/2015	ND	4.0000		
Lead, total	ug/L	MW-17	10/01/2015	ND	4.0000		
Lead, total	ug/L	MW-17	04/04/2016	ND	4.0000		
Lead, total	ug/L	MW-17	09/20/2016	ND	4.0000		
Lead, total	ug/L	MW-17	04/24/2017	ND	4.0000		
Lead, total	ug/L	MW-17	10/09/2017	ND	4.0000		
Lead, total	ug/L	MW-17	03/21/2018	ND	4.0000		
Lead, total	ug/L	MW-17	09/07/2018	ND	4.0000		
Lead, total	ug/L	MW-17	04/02/2019	ND	4.0000		
Lead, total	ug/L	MW-17	09/18/2019	ND	4.0000		
Lead, total	ug/L	MW-17	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-17	09/15/2020	ND	4.0000		
Lead, total	ug/L	MW-17	03/08/2021	ND	4.0000		
Lead, total	ug/L	MW-17	09/28/2021	ND	4.0000		
Lead, total	ug/L	MW-17	03/08/2022	ND	4.0000		
Lead, total	ug/L	MW-17	08/30/2022	ND	4.0000		
Lead, total	ug/L	MW-17	03/07/2023	ND	4.0000		
Lead, total	ug/L	MW-17	09/11/2023	ND	4.0000		
Nickel, total	ug/L	MW-17	10/16/2014		9.9000		
Nickel, total	ug/L	MW-17	04/04/2015		7.8000		
Nickel, total	ug/L	MW-17	10/01/2015		13.7000		
Nickel, total	ug/L	MW-17	04/04/2016		4.7000		
Nickel, total	ug/L	MW-17	09/20/2016	ND	4.0000		
Nickel, total	ug/L	MW-17	04/24/2017		6.3000		
Nickel, total	ug/L	MW-17	10/09/2017		8.0000		
Nickel, total	ug/L	MW-17	03/21/2018	ND	20.0000	4.0000	**
Nickel, total	ug/L	MW-17	09/07/2018		7.2000		
Nickel, total	ug/L	MW-17	04/02/2019		15.9000		
Nickel, total	ug/L	MW-17	09/18/2019		10.9000		
Nickel, total	ug/L	MW-17	03/25/2020		8.2000		
Nickel, total	ug/L	MW-17	09/15/2020		10.7000		
Nickel, total	ug/L	MW-17	03/08/2021		12.0000		
Nickel, total	ug/L	MW-17	09/28/2021		16.7000		
Nickel, total	ug/L	MW-17	03/08/2022		6.4000		
Nickel, total	ug/L	MW-17	08/30/2022		6.1000		
Nickel, total	ug/L	MW-17	03/07/2023		9.1000		
Nickel, total	ug/L	MW-17	09/11/2023		5.9000		
Selenium, total	ug/L	MW-17	10/16/2014	ND	4.0000		
Selenium, total	ug/L	MW-17	04/04/2015	ND	4.0000		
Selenium, total	ug/L	MW-17	10/01/2015	ND	4.0000		
Selenium, total	ug/L	MW-17	04/04/2016	ND	4.0000		
Selenium, total	ug/L	MW-17	09/20/2016	ND	4.0000		
Selenium, total	ug/L	MW-17	04/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-17	10/09/2017	ND	4.0000		
Selenium, total	ug/L	MW-17	03/21/2018	ND	4.0000		
Selenium, total	ug/L	MW-17	09/07/2018	ND	4.0000		
Selenium, total	ug/L	MW-17	04/02/2019	ND	4.0000		
Selenium, total	ug/L	MW-17	09/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-17	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-17	09/15/2020	ND	4.0000		
Selenium, total	ug/L	MW-17	03/08/2021	ND	4.0000		
Selenium, total	ug/L	MW-17	09/28/2021	ND	4.0000		
Selenium, total	ug/L	MW-17	03/08/2022	ND	4.0000		
Selenium, total	ug/L	MW-17	08/30/2022	ND	4.0000		
Selenium, total	ug/L	MW-17	03/07/2023	ND	4.0000		
Selenium, total	ug/L	MW-17	09/11/2023	ND	4.0000		
Silver, total	ug/L	MW-17	10/16/2014	ND	4.0000		
Silver, total	ug/L	MW-17	04/04/2015	ND	4.0000		
Silver, total	ug/L	MW-17	10/01/2015	ND	4.0000		
Silver, total	ug/L	MW-17	04/04/2016	ND	4.0000		
Silver, total	ug/L	MW-17	09/20/2016	ND	4.0000		
Silver, total	ug/L	MW-17	04/24/2017	ND	4.0000		
Silver, total	ug/L	MW-17	10/09/2017	ND	4.0000		
Silver, total	ug/L	MW-17	03/21/2018	ND	4.0000		
Silver, total	ug/L	MW-17	09/07/2018	ND	4.0000		
Silver, total	ug/L	MW-17	04/02/2019	ND	4.0000		
Silver, total	ug/L	MW-17	09/18/2019	ND	4.0000		
Silver, total	ug/L	MW-17	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-17	09/15/2020	ND	4.0000		
Silver, total	ug/L	MW-17	09/15/2020	ND	4.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Silver, total	ug/L	MW-17	03/08/2021	ND	4.0000		
Silver, total	ug/L	MW-17	09/28/2021	ND	4.0000		
Silver, total	ug/L	MW-17	03/08/2022	ND	4.0000		
Silver, total	ug/L	MW-17	08/30/2022	ND	4.0000		
Silver, total	ug/L	MW-17	03/07/2023	ND	4.0000		
Silver, total	ug/L	MW-17	09/11/2023	ND	4.0000		
Thallium, total	ug/L	MW-17	10/16/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/04/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/01/2015	ND	1.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/04/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	09/20/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/09/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	03/21/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	09/07/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/02/2019	ND	2.0000		
Thallium, total	ug/L	MW-17	09/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-17	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-17	09/15/2020	ND	2.0000		
Thallium, total	ug/L	MW-17	03/08/2021	ND	2.0000		
Thallium, total	ug/L	MW-17	09/28/2021	ND	2.0000		
Thallium, total	ug/L	MW-17	03/08/2022	ND	2.0000		
Thallium, total	ug/L	MW-17	08/30/2022	ND	2.0000		
Thallium, total	ug/L	MW-17	03/07/2023	ND	2.3000		
Thallium, total	ug/L	MW-17	09/11/2023	ND	2.0000		
Vanadium, total	ug/L	MW-17	10/16/2014	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/04/2015	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/01/2015	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/04/2016	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/20/2016	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/09/2017	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/21/2018	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/07/2018	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/02/2019	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/15/2020	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/08/2021	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/28/2021	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/08/2022	ND	20.0000		
Vanadium, total	ug/L	MW-17	08/30/2022	ND	20.0000		
Vanadium, total	ug/L	MW-17	03/07/2023	ND	20.0000		
Vanadium, total	ug/L	MW-17	09/11/2023	ND	20.0000		
Zinc, total	ug/L	MW-17	10/16/2014	ND	20.0000		
Zinc, total	ug/L	MW-17	04/04/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	10/01/2015	ND	10.9000		
Zinc, total	ug/L	MW-17	04/04/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	09/20/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	04/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	10/09/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	03/21/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	09/07/2018		67.4000		
Zinc, total	ug/L	MW-17	04/02/2019		33.3000		
Zinc, total	ug/L	MW-17	09/18/2019		61.5000		
Zinc, total	ug/L	MW-17	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-17	09/15/2020	ND	20.0000		
Zinc, total	ug/L	MW-17	03/08/2021	ND	20.0000		
Zinc, total	ug/L	MW-17	09/28/2021	ND	20.0000		
Zinc, total	ug/L	MW-17	03/08/2022	ND	20.0000		
Zinc, total	ug/L	MW-17	08/30/2022	ND	20.0000		
Zinc, total	ug/L	MW-17	03/07/2023	ND	20.0000		
Zinc, total	ug/L	MW-17	09/11/2023	ND	20.0000		
Antimony, total	ug/L	MW-18	10/16/2014	ND	2.0000		
Antimony, total	ug/L	MW-18	04/04/2015	ND	2.0000		
Antimony, total	ug/L	MW-18	10/01/2015	ND	2.0000		
Antimony, total	ug/L	MW-18	04/04/2016	ND	2.0000		
Antimony, total	ug/L	MW-18	09/20/2016	ND	2.0000		
Antimony, total	ug/L	MW-18	04/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-18	10/09/2017	ND	2.0000		
Antimony, total	ug/L	MW-18	03/21/2018	ND	2.0000		
Antimony, total	ug/L	MW-18	09/07/2018	ND	2.0000		
Antimony, total	ug/L	MW-18	04/02/2019	ND	2.0000		
Antimony, total	ug/L	MW-18	09/18/2019	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	
Antimony, total	ug/L	MW-18	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-18	09/15/2020	ND	2.0000		
Antimony, total	ug/L	MW-18	03/08/2021	ND	2.0000		
Antimony, total	ug/L	MW-18	09/28/2021	ND	2.0000		
Antimony, total	ug/L	MW-18	03/08/2022	ND	2.0000		
Antimony, total	ug/L	MW-18	08/30/2022	ND	2.0000		
Antimony, total	ug/L	MW-18	03/07/2023	ND	2.0000		
Antimony, total	ug/L	MW-18	09/11/2023	ND	2.0000		
Arsenic, total	ug/L	MW-18	10/16/2014		25.7000		
Arsenic, total	ug/L	MW-18	04/04/2015		34.2000		
Arsenic, total	ug/L	MW-18	10/01/2015		21.1000		
Arsenic, total	ug/L	MW-18	04/04/2016		26.2000		
Arsenic, total	ug/L	MW-18	09/20/2016		23.4000		
Arsenic, total	ug/L	MW-18	04/24/2017		22.3000		
Arsenic, total	ug/L	MW-18	10/09/2017		23.5000		
Arsenic, total	ug/L	MW-18	03/21/2018		21.1000		
Arsenic, total	ug/L	MW-18	09/07/2018		19.4000		
Arsenic, total	ug/L	MW-18	04/02/2019		21.5000		
Arsenic, total	ug/L	MW-18	09/18/2019		21.7000		
Arsenic, total	ug/L	MW-18	03/25/2020		19.4000		
Arsenic, total	ug/L	MW-18	09/15/2020		23.4000		
Arsenic, total	ug/L	MW-18	03/08/2021		23.3000		
Arsenic, total	ug/L	MW-18	09/28/2021		19.9000		
Arsenic, total	ug/L	MW-18	03/08/2022		21.3000		
Arsenic, total	ug/L	MW-18	08/30/2022		27.3000		
Arsenic, total	ug/L	MW-18	03/07/2023		18.3000		
Arsenic, total	ug/L	MW-18	09/11/2023		18.7000		
Barium, total	ug/L	MW-18	10/16/2014		903.0000		
Barium, total	ug/L	MW-18	04/04/2015		1140.0000		
Barium, total	ug/L	MW-18	10/01/2015		822.0000		
Barium, total	ug/L	MW-18	04/04/2016		860.0000		
Barium, total	ug/L	MW-18	09/20/2016		877.0000		
Barium, total	ug/L	MW-18	04/24/2017		827.0000		
Barium, total	ug/L	MW-18	10/09/2017		868.0000		
Barium, total	ug/L	MW-18	03/21/2018		863.0000		
Barium, total	ug/L	MW-18	09/07/2018		831.0000		
Barium, total	ug/L	MW-18	04/02/2019		862.0000		
Barium, total	ug/L	MW-18	09/18/2019		823.0000		
Barium, total	ug/L	MW-18	03/25/2020		897.0000		
Barium, total	ug/L	MW-18	09/15/2020		898.0000		
Barium, total	ug/L	MW-18	03/08/2021		840.0000		
Barium, total	ug/L	MW-18	09/28/2021		741.0000		
Barium, total	ug/L	MW-18	03/08/2022		792.0000		
Barium, total	ug/L	MW-18	08/30/2022		760.0000		
Barium, total	ug/L	MW-18	03/07/2023		702.0000		
Barium, total	ug/L	MW-18	09/11/2023		709.0000		
Beryllium, total	ug/L	MW-18	10/16/2014	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/04/2015	ND	4.0000		
Beryllium, total	ug/L	MW-18	10/01/2015	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/04/2016	ND	4.0000		
Beryllium, total	ug/L	MW-18	09/20/2016	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-18	10/09/2017	ND	4.0000		
Beryllium, total	ug/L	MW-18	03/21/2018	ND	4.0000		
Beryllium, total	ug/L	MW-18	09/07/2018	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/02/2019	ND	4.0000		
Beryllium, total	ug/L	MW-18	09/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-18	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-18	09/15/2020	ND	4.0000		
Beryllium, total	ug/L	MW-18	03/08/2021	ND	4.0000		
Beryllium, total	ug/L	MW-18	09/28/2021	ND	4.0000		
Beryllium, total	ug/L	MW-18	03/08/2022	ND	4.0000		
Beryllium, total	ug/L	MW-18	08/30/2022	ND	4.0000		
Beryllium, total	ug/L	MW-18	03/07/2023	ND	4.0000		
Beryllium, total	ug/L	MW-18	09/11/2023	ND	4.0000		
Cadmium, total	ug/L	MW-18	10/16/2014		1.7000		
Cadmium, total	ug/L	MW-18	04/04/2015		3.9000		*
Cadmium, total	ug/L	MW-18	10/01/2015	ND	0.8000		
Cadmium, total	ug/L	MW-18	04/04/2016		1.0000		
Cadmium, total	ug/L	MW-18	09/20/2016		0.9000		
Cadmium, total	ug/L	MW-18	04/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-18	10/09/2017	ND	0.8000		
Cadmium, total	ug/L	MW-18	03/21/2018	ND	0.8000		
Cadmium, total	ug/L	MW-18	09/07/2018	ND	0.8000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW-18	04/02/2019	ND	0.8000		
Cadmium, total	ug/L	MW-18	09/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-18	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-18	09/15/2020	ND	0.8000		
Cadmium, total	ug/L	MW-18	03/08/2021	ND	0.8000		
Cadmium, total	ug/L	MW-18	09/28/2021		1.2000		
Cadmium, total	ug/L	MW-18	03/08/2022	ND	0.8000		
Cadmium, total	ug/L	MW-18	08/30/2022	ND	0.8000		
Cadmium, total	ug/L	MW-18	03/07/2023	ND	0.8000		
Cadmium, total	ug/L	MW-18	09/11/2023	ND	0.8000		
Chromium, total	ug/L	MW-18	10/16/2014		11.6000		
Chromium, total	ug/L	MW-18	04/04/2015		26.4000		*
Chromium, total	ug/L	MW-18	10/01/2015	ND	8.0000		
Chromium, total	ug/L	MW-18	04/04/2016	ND	8.0000		
Chromium, total	ug/L	MW-18	09/20/2016		10.5000		
Chromium, total	ug/L	MW-18	04/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-18	10/09/2017	ND	8.0000		
Chromium, total	ug/L	MW-18	03/21/2018	ND	8.0000		
Chromium, total	ug/L	MW-18	09/07/2018	ND	8.0000		
Chromium, total	ug/L	MW-18	04/02/2019	ND	8.0000		
Chromium, total	ug/L	MW-18	09/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-18	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-18	09/15/2020	ND	8.0000		
Chromium, total	ug/L	MW-18	03/08/2021	ND	8.0000		
Chromium, total	ug/L	MW-18	09/28/2021	ND	8.0000		
Chromium, total	ug/L	MW-18	03/08/2022	ND	8.0000		
Chromium, total	ug/L	MW-18	08/30/2022	ND	8.0000		
Chromium, total	ug/L	MW-18	03/07/2023	ND	8.0000		
Chromium, total	ug/L	MW-18	09/11/2023	ND	8.0000		
Cobalt, total	ug/L	MW-18	10/16/2014		23.5000		
Cobalt, total	ug/L	MW-18	04/04/2015		35.1000		*
Cobalt, total	ug/L	MW-18	10/01/2015		9.8000		
Cobalt, total	ug/L	MW-18	04/04/2016		12.0000		
Cobalt, total	ug/L	MW-18	09/20/2016		17.1000		
Cobalt, total	ug/L	MW-18	04/24/2017		8.5000		
Cobalt, total	ug/L	MW-18	10/09/2017		7.1000		
Cobalt, total	ug/L	MW-18	03/21/2018		5.5000		
Cobalt, total	ug/L	MW-18	09/07/2018		5.8000		
Cobalt, total	ug/L	MW-18	04/02/2019		4.1000		
Cobalt, total	ug/L	MW-18	09/18/2019		3.9000		
Cobalt, total	ug/L	MW-18	03/25/2020		3.6000		
Cobalt, total	ug/L	MW-18	09/15/2020		17.8000		
Cobalt, total	ug/L	MW-18	03/08/2021		9.2000		
Cobalt, total	ug/L	MW-18	09/28/2021		4.9000		
Cobalt, total	ug/L	MW-18	03/08/2022		4.0000		
Cobalt, total	ug/L	MW-18	08/30/2022		9.1000		
Cobalt, total	ug/L	MW-18	03/07/2023		9.2000		
Cobalt, total	ug/L	MW-18	09/11/2023		11.3000		
Copper, total	ug/L	MW-18	10/16/2014		31.3000		*
Copper, total	ug/L	MW-18	04/04/2015		69.3000		*
Copper, total	ug/L	MW-18	10/01/2015	ND	4.0000		
Copper, total	ug/L	MW-18	04/04/2016	ND	4.0000		
Copper, total	ug/L	MW-18	09/20/2016		16.0000		*
Copper, total	ug/L	MW-18	04/24/2017	ND	4.0000		
Copper, total	ug/L	MW-18	10/09/2017	ND	4.0000		
Copper, total	ug/L	MW-18	03/21/2018	ND	4.0000		
Copper, total	ug/L	MW-18	09/07/2018	ND	4.0000		
Copper, total	ug/L	MW-18	04/02/2019	ND	4.0000		
Copper, total	ug/L	MW-18	09/18/2019	ND	4.0000		
Copper, total	ug/L	MW-18	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-18	09/15/2020	ND	4.0000		
Copper, total	ug/L	MW-18	03/08/2021	ND	4.0000		
Copper, total	ug/L	MW-18	09/28/2021	ND	4.0000		
Copper, total	ug/L	MW-18	03/08/2022	ND	4.0000		
Copper, total	ug/L	MW-18	08/30/2022	ND	4.0000		
Copper, total	ug/L	MW-18	03/07/2023	ND	4.0000		
Copper, total	ug/L	MW-18	09/11/2023	ND	4.0000		
Lead, total	ug/L	MW-18	10/16/2014		12.4000		*
Lead, total	ug/L	MW-18	04/04/2015		27.2000		*
Lead, total	ug/L	MW-18	10/01/2015	ND	4.0000		
Lead, total	ug/L	MW-18	04/04/2016	ND	4.0000		
Lead, total	ug/L	MW-18	09/20/2016		6.2000		
Lead, total	ug/L	MW-18	04/24/2017	ND	4.0000		
Lead, total	ug/L	MW-18	10/09/2017	ND	4.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lead, total	ug/L	MW-18	03/21/2018	ND	4.0000		
Lead, total	ug/L	MW-18	09/07/2018	ND	4.0000		
Lead, total	ug/L	MW-18	04/02/2019	ND	4.0000		
Lead, total	ug/L	MW-18	09/18/2019	ND	4.0000		
Lead, total	ug/L	MW-18	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-18	09/15/2020	ND	4.0000		
Lead, total	ug/L	MW-18	03/08/2021	ND	4.0000		
Lead, total	ug/L	MW-18	09/28/2021	ND	4.0000		
Lead, total	ug/L	MW-18	03/08/2022	ND	4.0000		
Lead, total	ug/L	MW-18	08/30/2022	ND	4.0000		
Lead, total	ug/L	MW-18	03/07/2023	ND	4.0000		
Lead, total	ug/L	MW-18	09/11/2023	ND	4.0000		
Nickel, total	ug/L	MW-18	10/16/2014		35.4000		*
Nickel, total	ug/L	MW-18	04/04/2015		67.7000		*
Nickel, total	ug/L	MW-18	10/01/2015		12.7000		
Nickel, total	ug/L	MW-18	04/04/2016		16.0000		
Nickel, total	ug/L	MW-18	09/20/2016		25.3000		
Nickel, total	ug/L	MW-18	04/24/2017		11.9000		
Nickel, total	ug/L	MW-18	10/09/2017		10.8000		
Nickel, total	ug/L	MW-18	03/21/2018	ND	20.0000	4.0000	**
Nickel, total	ug/L	MW-18	09/07/2018		9.2000		
Nickel, total	ug/L	MW-18	04/02/2019		7.2000		
Nickel, total	ug/L	MW-18	09/18/2019		10.7000		
Nickel, total	ug/L	MW-18	03/25/2020		6.6000		
Nickel, total	ug/L	MW-18	09/15/2020		29.7000		
Nickel, total	ug/L	MW-18	03/08/2021		12.4000		
Nickel, total	ug/L	MW-18	09/28/2021		8.5000		
Nickel, total	ug/L	MW-18	03/08/2022		7.2000		
Nickel, total	ug/L	MW-18	08/30/2022		16.9000		
Nickel, total	ug/L	MW-18	03/07/2023		19.8000		
Nickel, total	ug/L	MW-18	09/11/2023		19.5000		
Selenium, total	ug/L	MW-18	10/16/2014	ND	4.0000		
Selenium, total	ug/L	MW-18	04/04/2015	ND	4.0000		
Selenium, total	ug/L	MW-18	10/01/2015	ND	4.0000		
Selenium, total	ug/L	MW-18	04/04/2016	ND	4.0000		
Selenium, total	ug/L	MW-18	09/20/2016	ND	4.0000		
Selenium, total	ug/L	MW-18	04/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-18	10/09/2017	ND	4.0000		
Selenium, total	ug/L	MW-18	03/21/2018	ND	4.0000		
Selenium, total	ug/L	MW-18	09/07/2018	ND	4.0000		
Selenium, total	ug/L	MW-18	04/02/2019	ND	4.0000		
Selenium, total	ug/L	MW-18	09/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-18	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-18	09/15/2020	ND	4.0000		
Selenium, total	ug/L	MW-18	03/08/2021	ND	4.0000		
Selenium, total	ug/L	MW-18	09/28/2021	ND	4.0000		
Selenium, total	ug/L	MW-18	03/08/2022	ND	4.0000		
Selenium, total	ug/L	MW-18	08/30/2022	ND	4.0000		
Selenium, total	ug/L	MW-18	03/07/2023	ND	4.0000		
Selenium, total	ug/L	MW-18	09/11/2023	ND	4.0000		
Silver, total	ug/L	MW-18	10/16/2014	ND	4.0000		
Silver, total	ug/L	MW-18	04/04/2015	ND	4.0000		
Silver, total	ug/L	MW-18	10/01/2015	ND	4.0000		
Silver, total	ug/L	MW-18	04/04/2016	ND	4.0000		
Silver, total	ug/L	MW-18	09/20/2016	ND	4.0000		
Silver, total	ug/L	MW-18	04/24/2017	ND	4.0000		
Silver, total	ug/L	MW-18	10/09/2017	ND	4.0000		
Silver, total	ug/L	MW-18	03/21/2018	ND	4.0000		
Silver, total	ug/L	MW-18	09/07/2018	ND	4.0000		
Silver, total	ug/L	MW-18	04/02/2019	ND	4.0000		
Silver, total	ug/L	MW-18	09/18/2019	ND	4.0000		
Silver, total	ug/L	MW-18	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-18	09/15/2020	ND	4.0000		
Silver, total	ug/L	MW-18	03/08/2021	ND	4.0000		
Silver, total	ug/L	MW-18	09/28/2021	ND	4.0000		
Silver, total	ug/L	MW-18	03/08/2022	ND	4.0000		
Silver, total	ug/L	MW-18	08/30/2022	ND	4.0000		
Silver, total	ug/L	MW-18	03/07/2023	ND	4.0000		
Silver, total	ug/L	MW-18	09/11/2023	ND	4.0000		
Thallium, total	ug/L	MW-18	10/16/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	04/04/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	10/01/2015	ND	1.0000	2.0000	**
Thallium, total	ug/L	MW-18	04/04/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	09/20/2016	ND	4.0000	2.0000	**

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Thallium, total	ug/L	MW-18	04/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	10/09/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	03/21/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	09/07/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	04/02/2019	ND	2.0000		
Thallium, total	ug/L	MW-18	09/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-18	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-18	09/15/2020	ND	2.0000		
Thallium, total	ug/L	MW-18	03/08/2021	ND	2.0000		
Thallium, total	ug/L	MW-18	09/28/2021	ND	2.0000		
Thallium, total	ug/L	MW-18	03/08/2022	ND	2.0000		
Thallium, total	ug/L	MW-18	08/30/2022	ND	2.0000		
Thallium, total	ug/L	MW-18	03/07/2023	ND	2.0000		
Thallium, total	ug/L	MW-18	09/11/2023	ND	2.0000		
Vanadium, total	ug/L	MW-18	10/16/2014	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/04/2015		31.6000		
Vanadium, total	ug/L	MW-18	10/01/2015	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/04/2016	ND	20.0000		
Vanadium, total	ug/L	MW-18	09/20/2016	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-18	10/09/2017	ND	20.0000		
Vanadium, total	ug/L	MW-18	03/21/2018	ND	20.0000		
Vanadium, total	ug/L	MW-18	09/07/2018	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/02/2019	ND	20.0000		
Vanadium, total	ug/L	MW-18	09/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-18	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-18	09/15/2020	ND	20.0000		
Vanadium, total	ug/L	MW-18	03/08/2021	ND	20.0000		
Vanadium, total	ug/L	MW-18	09/28/2021	ND	20.0000		
Vanadium, total	ug/L	MW-18	03/08/2022	ND	20.0000		
Vanadium, total	ug/L	MW-18	08/30/2022	ND	20.0000		
Vanadium, total	ug/L	MW-18	03/07/2023	ND	20.0000		
Vanadium, total	ug/L	MW-18	09/11/2023	ND	20.0000		
Zinc, total	ug/L	MW-18	10/16/2014		107.0000		
Zinc, total	ug/L	MW-18	04/04/2015		267.0000		
Zinc, total	ug/L	MW-18	10/01/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	04/04/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	09/20/2016		56.2000		
Zinc, total	ug/L	MW-18	04/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	10/09/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	03/21/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	09/07/2018		42.5000		
Zinc, total	ug/L	MW-18	04/02/2019		29.3000		
Zinc, total	ug/L	MW-18	09/18/2019		42.8000		
Zinc, total	ug/L	MW-18	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-18	09/15/2020	ND	20.0000		
Zinc, total	ug/L	MW-18	03/08/2021	ND	20.0000		
Zinc, total	ug/L	MW-18	09/28/2021	ND	20.0000		
Zinc, total	ug/L	MW-18	03/08/2022	ND	20.0000		
Zinc, total	ug/L	MW-18	08/30/2022	ND	20.0000		
Zinc, total	ug/L	MW-18	03/07/2023	ND	20.0000		
Zinc, total	ug/L	MW-18	09/11/2023	ND	20.0000		
Antimony, total	ug/L	MW-19A	10/16/2014	ND	2.0000		
Antimony, total	ug/L	MW-19A	04/04/2015	ND	2.0000		
Antimony, total	ug/L	MW-19A	10/01/2015	ND	2.0000		
Antimony, total	ug/L	MW-19A	04/04/2016	ND	2.0000		
Antimony, total	ug/L	MW-19A	09/20/2016	ND	2.0000		
Antimony, total	ug/L	MW-19A	04/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-19A	10/09/2017	ND	2.0000		
Antimony, total	ug/L	MW-19A	03/21/2018	ND	2.0000		
Antimony, total	ug/L	MW-19A	09/07/2018	ND	2.0000		
Antimony, total	ug/L	MW-19A	04/02/2019	ND	2.0000		
Antimony, total	ug/L	MW-19A	09/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-19A	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-19A	09/15/2020	ND	2.0000		
Antimony, total	ug/L	MW-19A	03/08/2021	ND	2.0000		
Antimony, total	ug/L	MW-19A	09/28/2021	ND	2.0000		
Antimony, total	ug/L	MW-19A	03/08/2022	ND	2.0000		
Antimony, total	ug/L	MW-19A	08/30/2022	ND	2.0000		
Antimony, total	ug/L	MW-19A	03/07/2023	ND	2.0000		
Antimony, total	ug/L	MW-19A	09/11/2023	ND	2.0000		
Arsenic, total	ug/L	MW-19A	10/16/2014	ND	4.0000		
Arsenic, total	ug/L	MW-19A	04/04/2015	ND	4.0000		
Arsenic, total	ug/L	MW-19A	10/01/2015	ND	4.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Arsenic, total	ug/L	MW-19A	04/04/2016	ND	4.0000		
Arsenic, total	ug/L	MW-19A	09/20/2016	ND	4.0000		
Arsenic, total	ug/L	MW-19A	04/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-19A	10/09/2017	ND	4.0000		
Arsenic, total	ug/L	MW-19A	03/21/2018	ND	4.0000		
Arsenic, total	ug/L	MW-19A	09/07/2018	ND	4.0000		
Arsenic, total	ug/L	MW-19A	04/02/2019	ND	4.0000		
Arsenic, total	ug/L	MW-19A	09/18/2019	ND	4.0000		
Arsenic, total	ug/L	MW-19A	03/25/2020	ND	4.0000		
Arsenic, total	ug/L	MW-19A	09/15/2020	ND	4.0000		
Arsenic, total	ug/L	MW-19A	03/08/2021	ND	4.0000		
Arsenic, total	ug/L	MW-19A	09/28/2021	ND	4.0000		
Arsenic, total	ug/L	MW-19A	03/08/2022	ND	4.0000		
Arsenic, total	ug/L	MW-19A	08/30/2022	ND	4.0000		
Arsenic, total	ug/L	MW-19A	03/07/2023	ND	4.0000		
Arsenic, total	ug/L	MW-19A	09/11/2023	ND	4.0000		
Barium, total	ug/L	MW-19A	10/16/2014		48.9000		
Barium, total	ug/L	MW-19A	04/04/2015		55.5000		
Barium, total	ug/L	MW-19A	10/01/2015		30.0000		
Barium, total	ug/L	MW-19A	04/04/2016		30.4000		
Barium, total	ug/L	MW-19A	09/20/2016		29.5000		
Barium, total	ug/L	MW-19A	04/24/2017		42.1000		
Barium, total	ug/L	MW-19A	10/09/2017		35.1000		
Barium, total	ug/L	MW-19A	03/21/2018		46.9000		
Barium, total	ug/L	MW-19A	09/07/2018		38.7000		
Barium, total	ug/L	MW-19A	04/02/2019		37.9000		
Barium, total	ug/L	MW-19A	09/18/2019		42.5000		
Barium, total	ug/L	MW-19A	03/25/2020		34.2000		
Barium, total	ug/L	MW-19A	09/15/2020		35.8000		
Barium, total	ug/L	MW-19A	03/08/2021		35.2000		
Barium, total	ug/L	MW-19A	09/28/2021		36.1000		
Barium, total	ug/L	MW-19A	03/08/2022		40.1000		
Barium, total	ug/L	MW-19A	08/30/2022		38.3000		
Barium, total	ug/L	MW-19A	03/07/2023		32.5000		
Barium, total	ug/L	MW-19A	09/11/2023		32.1000		
Beryllium, total	ug/L	MW-19A	10/16/2014	ND	4.0000		
Beryllium, total	ug/L	MW-19A	04/04/2015	ND	4.0000		
Beryllium, total	ug/L	MW-19A	10/01/2015	ND	4.0000		
Beryllium, total	ug/L	MW-19A	04/04/2016	ND	4.0000		
Beryllium, total	ug/L	MW-19A	09/20/2016	ND	4.0000		
Beryllium, total	ug/L	MW-19A	04/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-19A	10/09/2017	ND	4.0000		
Beryllium, total	ug/L	MW-19A	03/21/2018	ND	4.0000		
Beryllium, total	ug/L	MW-19A	09/07/2018	ND	4.0000		
Beryllium, total	ug/L	MW-19A	04/02/2019	ND	4.0000		
Beryllium, total	ug/L	MW-19A	09/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-19A	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-19A	09/15/2020	ND	4.0000		
Beryllium, total	ug/L	MW-19A	03/08/2021	ND	4.0000		
Beryllium, total	ug/L	MW-19A	09/28/2021	ND	4.0000		
Beryllium, total	ug/L	MW-19A	03/08/2022	ND	4.0000		
Beryllium, total	ug/L	MW-19A	08/30/2022	ND	4.0000		
Beryllium, total	ug/L	MW-19A	03/07/2023	ND	4.0000		
Beryllium, total	ug/L	MW-19A	09/11/2023	ND	4.0000		
Cadmium, total	ug/L	MW-19A	10/16/2014	ND	0.8000		
Cadmium, total	ug/L	MW-19A	04/04/2015	ND	0.8000		
Cadmium, total	ug/L	MW-19A	10/01/2015	ND	0.8000		
Cadmium, total	ug/L	MW-19A	04/04/2016		0.8000		
Cadmium, total	ug/L	MW-19A	09/20/2016	ND	0.8000		
Cadmium, total	ug/L	MW-19A	04/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-19A	10/09/2017	ND	0.8000		
Cadmium, total	ug/L	MW-19A	03/21/2018	ND	0.8000		
Cadmium, total	ug/L	MW-19A	09/07/2018	ND	0.8000		
Cadmium, total	ug/L	MW-19A	04/02/2019	ND	0.8000		
Cadmium, total	ug/L	MW-19A	09/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-19A	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-19A	09/15/2020	ND	0.8000		
Cadmium, total	ug/L	MW-19A	03/08/2021	ND	0.8000		
Cadmium, total	ug/L	MW-19A	09/28/2021	ND	0.8000		
Cadmium, total	ug/L	MW-19A	03/08/2022	ND	0.8000		
Cadmium, total	ug/L	MW-19A	08/30/2022	ND	0.8000		
Cadmium, total	ug/L	MW-19A	03/07/2023	ND	0.8000		
Cadmium, total	ug/L	MW-19A	09/11/2023		9.0000		*
Chromium, total	ug/L	MW-19A	10/16/2014	ND	8.0000		

* - 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, total	ug/L	MW-19A	04/04/2015	ND	8.0000		
Chromium, total	ug/L	MW-19A	10/01/2015	ND	8.0000		
Chromium, total	ug/L	MW-19A	04/04/2016	ND	8.0000		
Chromium, total	ug/L	MW-19A	09/20/2016	ND	8.0000		
Chromium, total	ug/L	MW-19A	04/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-19A	10/09/2017	ND	8.0000		
Chromium, total	ug/L	MW-19A	03/21/2018	ND	8.0000		
Chromium, total	ug/L	MW-19A	09/07/2018	ND	8.0000		
Chromium, total	ug/L	MW-19A	04/02/2019	ND	8.0000		
Chromium, total	ug/L	MW-19A	09/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-19A	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-19A	09/15/2020	ND	8.0000		
Chromium, total	ug/L	MW-19A	03/08/2021	ND	8.0000		
Chromium, total	ug/L	MW-19A	09/28/2021	ND	8.0000		
Chromium, total	ug/L	MW-19A	03/08/2022	ND	8.0000		
Chromium, total	ug/L	MW-19A	08/30/2022	ND	8.0000		
Chromium, total	ug/L	MW-19A	03/07/2023	ND	8.0000		
Chromium, total	ug/L	MW-19A	09/11/2023	ND	8.0000		
Cobalt, total	ug/L	MW-19A	10/16/2014	ND	0.8000		
Cobalt, total	ug/L	MW-19A	04/04/2015	ND	0.8000		
Cobalt, total	ug/L	MW-19A	10/01/2015	ND	0.8000		
Cobalt, total	ug/L	MW-19A	04/04/2016	ND	0.8000		
Cobalt, total	ug/L	MW-19A	09/20/2016	ND	0.8000		
Cobalt, total	ug/L	MW-19A	04/24/2017	ND	0.8000		
Cobalt, total	ug/L	MW-19A	10/09/2017	ND	0.8000		
Cobalt, total	ug/L	MW-19A	03/21/2018	ND	2.0000	0.8000	**
Cobalt, total	ug/L	MW-19A	09/07/2018	ND	0.8000		
Cobalt, total	ug/L	MW-19A	04/02/2019	ND	0.8000		
Cobalt, total	ug/L	MW-19A	09/18/2019	ND	0.8000		
Cobalt, total	ug/L	MW-19A	03/25/2020	ND	0.8000		
Cobalt, total	ug/L	MW-19A	09/15/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-19A	03/08/2021	ND	0.4000		
Cobalt, total	ug/L	MW-19A	09/28/2021	ND	0.4000		
Cobalt, total	ug/L	MW-19A	03/08/2022	ND	0.6000		
Cobalt, total	ug/L	MW-19A	08/30/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-19A	03/07/2023	ND	0.4000		
Cobalt, total	ug/L	MW-19A	09/11/2023	ND	0.4000	0.8000	**
Copper, total	ug/L	MW-19A	10/16/2014	ND	4.0000		
Copper, total	ug/L	MW-19A	04/04/2015	ND	4.0000		
Copper, total	ug/L	MW-19A	10/01/2015	ND	4.0000		
Copper, total	ug/L	MW-19A	04/04/2016	ND	4.0000		
Copper, total	ug/L	MW-19A	09/20/2016	ND	4.0000		
Copper, total	ug/L	MW-19A	04/24/2017	ND	4.0000		
Copper, total	ug/L	MW-19A	10/09/2017	ND	4.0000		
Copper, total	ug/L	MW-19A	03/21/2018	ND	4.0000		
Copper, total	ug/L	MW-19A	09/07/2018	ND	4.0000		
Copper, total	ug/L	MW-19A	04/02/2019	ND	4.0000		
Copper, total	ug/L	MW-19A	09/18/2019	ND	4.0000		
Copper, total	ug/L	MW-19A	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-19A	09/15/2020	ND	4.0000		
Copper, total	ug/L	MW-19A	03/08/2021	ND	4.0000		
Copper, total	ug/L	MW-19A	09/28/2021	ND	4.0000		
Copper, total	ug/L	MW-19A	03/08/2022	ND	4.0000		
Copper, total	ug/L	MW-19A	08/30/2022	ND	4.0000		
Copper, total	ug/L	MW-19A	03/07/2023	ND	4.0000		
Copper, total	ug/L	MW-19A	09/11/2023	ND	4.0000		
Lead, total	ug/L	MW-19A	10/16/2014	ND	4.0000		
Lead, total	ug/L	MW-19A	04/04/2015	ND	4.0000		
Lead, total	ug/L	MW-19A	10/01/2015	ND	4.0000		
Lead, total	ug/L	MW-19A	04/04/2016	ND	4.0000		
Lead, total	ug/L	MW-19A	09/20/2016	ND	4.0000		
Lead, total	ug/L	MW-19A	04/24/2017	ND	4.0000		
Lead, total	ug/L	MW-19A	10/09/2017	ND	4.0000		
Lead, total	ug/L	MW-19A	03/21/2018	ND	4.0000		
Lead, total	ug/L	MW-19A	09/07/2018	ND	4.0000		
Lead, total	ug/L	MW-19A	04/02/2019	ND	4.0000		
Lead, total	ug/L	MW-19A	09/18/2019	ND	4.0000		
Lead, total	ug/L	MW-19A	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-19A	09/15/2020	ND	4.0000		
Lead, total	ug/L	MW-19A	03/08/2021	ND	4.0000		
Lead, total	ug/L	MW-19A	09/28/2021	ND	4.0000		
Lead, total	ug/L	MW-19A	03/08/2022	ND	4.0000		
Lead, total	ug/L	MW-19A	08/30/2022	ND	4.0000		
Lead, total	ug/L	MW-19A	03/07/2023	ND	4.0000		
Lead, total	ug/L	MW-19A	09/11/2023	ND	4.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lead, total	ug/L	MW-19A	09/11/2023	ND	4.0000		
Nickel, total	ug/L	MW-19A	10/16/2014		4.6000		
Nickel, total	ug/L	MW-19A	04/04/2015		6.9000		
Nickel, total	ug/L	MW-19A	10/01/2015		5.2000		
Nickel, total	ug/L	MW-19A	04/04/2016		4.3000		
Nickel, total	ug/L	MW-19A	09/20/2016	ND	4.0000		
Nickel, total	ug/L	MW-19A	04/24/2017	ND	4.0000		
Nickel, total	ug/L	MW-19A	10/09/2017		5.2000		
Nickel, total	ug/L	MW-19A	03/21/2018	ND	20.0000	4.0000	**
Nickel, total	ug/L	MW-19A	09/07/2018		6.4000		
Nickel, total	ug/L	MW-19A	04/02/2019		7.7000		
Nickel, total	ug/L	MW-19A	09/18/2019		11.8000		
Nickel, total	ug/L	MW-19A	03/25/2020		10.5000		
Nickel, total	ug/L	MW-19A	09/15/2020		11.5000		
Nickel, total	ug/L	MW-19A	12/02/2020		10.5000		
Nickel, total	ug/L	MW-19A	03/08/2021		9.5000		
Nickel, total	ug/L	MW-19A	09/28/2021		8.0000		
Nickel, total	ug/L	MW-19A	03/08/2022		8.0000		
Nickel, total	ug/L	MW-19A	08/30/2022		10.4000		
Nickel, total	ug/L	MW-19A	03/07/2023		11.4000		
Nickel, total	ug/L	MW-19A	09/11/2023		9.6000		
Selenium, total	ug/L	MW-19A	10/16/2014	ND	4.0000		
Selenium, total	ug/L	MW-19A	04/04/2015	ND	4.0000		
Selenium, total	ug/L	MW-19A	10/01/2015	ND	4.0000		
Selenium, total	ug/L	MW-19A	04/04/2016	ND	4.0000		
Selenium, total	ug/L	MW-19A	09/20/2016	ND	4.0000		
Selenium, total	ug/L	MW-19A	04/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-19A	10/09/2017	ND	4.0000		
Selenium, total	ug/L	MW-19A	03/21/2018	ND	4.0000		
Selenium, total	ug/L	MW-19A	09/07/2018	ND	4.0000		
Selenium, total	ug/L	MW-19A	04/02/2019	ND	4.0000		
Selenium, total	ug/L	MW-19A	09/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-19A	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-19A	09/15/2020	ND	4.0000		
Selenium, total	ug/L	MW-19A	03/08/2021	ND	4.0000		
Selenium, total	ug/L	MW-19A	09/28/2021	ND	4.0000		
Selenium, total	ug/L	MW-19A	03/08/2022	ND	4.0000		
Selenium, total	ug/L	MW-19A	08/30/2022	ND	4.0000		
Selenium, total	ug/L	MW-19A	03/07/2023	ND	4.0000		
Selenium, total	ug/L	MW-19A	09/11/2023	ND	4.0000		
Silver, total	ug/L	MW-19A	10/16/2014	ND	4.0000		
Silver, total	ug/L	MW-19A	04/04/2015	ND	4.0000		
Silver, total	ug/L	MW-19A	10/01/2015	ND	4.0000		
Silver, total	ug/L	MW-19A	04/04/2016	ND	4.0000		
Silver, total	ug/L	MW-19A	09/20/2016	ND	4.0000		
Silver, total	ug/L	MW-19A	04/24/2017	ND	4.0000		
Silver, total	ug/L	MW-19A	10/09/2017	ND	4.0000		
Silver, total	ug/L	MW-19A	03/21/2018	ND	4.0000		
Silver, total	ug/L	MW-19A	09/07/2018	ND	4.0000		
Silver, total	ug/L	MW-19A	04/02/2019	ND	4.0000		
Silver, total	ug/L	MW-19A	09/18/2019	ND	4.0000		
Silver, total	ug/L	MW-19A	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-19A	09/15/2020	ND	4.0000		
Silver, total	ug/L	MW-19A	03/08/2021	ND	4.0000		
Silver, total	ug/L	MW-19A	09/28/2021	ND	4.0000		
Silver, total	ug/L	MW-19A	03/08/2022	ND	4.0000		
Silver, total	ug/L	MW-19A	08/30/2022	ND	4.0000		
Silver, total	ug/L	MW-19A	03/07/2023	ND	4.0000		
Silver, total	ug/L	MW-19A	09/11/2023	ND	4.0000		
Thallium, total	ug/L	MW-19A	10/16/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	04/04/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	10/01/2015	ND	1.0000	2.0000	**
Thallium, total	ug/L	MW-19A	04/04/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	09/20/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	04/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	10/09/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	03/21/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	09/07/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-19A	04/02/2019	ND	2.0000		
Thallium, total	ug/L	MW-19A	09/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-19A	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-19A	09/15/2020	ND	2.0000		
Thallium, total	ug/L	MW-19A	03/08/2021	ND	2.0000		
Thallium, total	ug/L	MW-19A	09/28/2021	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	
Thallium, total	ug/L	MW-19A	03/08/2022	ND	2.0000		
Thallium, total	ug/L	MW-19A	08/30/2022	ND	2.0000		
Thallium, total	ug/L	MW-19A	03/07/2023	ND	2.0000		
Thallium, total	ug/L	MW-19A	09/11/2023	ND	2.0000		
Vanadium, total	ug/L	MW-19A	10/16/2014	ND	20.0000		
Vanadium, total	ug/L	MW-19A	04/04/2015	ND	20.0000		
Vanadium, total	ug/L	MW-19A	10/01/2015	ND	20.0000		
Vanadium, total	ug/L	MW-19A	04/04/2016	ND	20.0000		
Vanadium, total	ug/L	MW-19A	09/20/2016	ND	20.0000		
Vanadium, total	ug/L	MW-19A	04/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-19A	10/09/2017	ND	20.0000		
Vanadium, total	ug/L	MW-19A	03/21/2018	ND	20.0000		
Vanadium, total	ug/L	MW-19A	09/07/2018	ND	20.0000		
Vanadium, total	ug/L	MW-19A	04/02/2019	ND	20.0000		
Vanadium, total	ug/L	MW-19A	09/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-19A	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-19A	09/15/2020	ND	20.0000		
Vanadium, total	ug/L	MW-19A	03/08/2021	ND	20.0000		
Vanadium, total	ug/L	MW-19A	09/28/2021	ND	20.0000		
Vanadium, total	ug/L	MW-19A	03/08/2022	ND	20.0000		
Vanadium, total	ug/L	MW-19A	08/30/2022	ND	20.0000		
Vanadium, total	ug/L	MW-19A	03/07/2023	ND	20.0000		
Vanadium, total	ug/L	MW-19A	09/11/2023	ND	20.0000		
Zinc, total	ug/L	MW-19A	10/16/2014	ND	20.0000		
Zinc, total	ug/L	MW-19A	04/04/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-19A	10/01/2015		11.2000		
Zinc, total	ug/L	MW-19A	04/04/2016		15.2000		
Zinc, total	ug/L	MW-19A	09/20/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-19A	04/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-19A	10/09/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-19A	03/21/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-19A	09/07/2018		40.8000		
Zinc, total	ug/L	MW-19A	04/02/2019		35.8000		
Zinc, total	ug/L	MW-19A	09/18/2019		29.9000		
Zinc, total	ug/L	MW-19A	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-19A	09/15/2020	ND	20.0000		
Zinc, total	ug/L	MW-19A	03/08/2021	ND	20.0000		
Zinc, total	ug/L	MW-19A	09/28/2021	ND	20.0000		
Zinc, total	ug/L	MW-19A	03/08/2022	ND	20.0000		
Zinc, total	ug/L	MW-19A	08/30/2022	ND	20.0000		
Zinc, total	ug/L	MW-19A	03/07/2023	ND	20.0000		
Zinc, total	ug/L	MW-19A	09/11/2023	ND	20.0000		
Antimony, total	ug/L	MW-2	04/04/2015	ND	2.0000		
Antimony, total	ug/L	MW-2	10/01/2015	ND	2.0000		
Antimony, total	ug/L	MW-2	04/04/2016	ND	2.0000		
Antimony, total	ug/L	MW-2	04/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-2	04/02/2019	ND	2.0000		
Antimony, total	ug/L	MW-2	03/25/2020	ND	2.0000		
Arsenic, total	ug/L	MW-2	04/04/2015	ND	4.0000		
Arsenic, total	ug/L	MW-2	10/01/2015	ND	4.0000		
Arsenic, total	ug/L	MW-2	04/04/2016	ND	4.0000		
Arsenic, total	ug/L	MW-2	04/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-2	04/02/2019	ND	4.0000		
Arsenic, total	ug/L	MW-2	03/25/2020	ND	4.0000		
Barium, total	ug/L	MW-2	04/04/2015		418.0000		
Barium, total	ug/L	MW-2	10/01/2015		491.0000		
Barium, total	ug/L	MW-2	04/04/2016		424.0000		
Barium, total	ug/L	MW-2	04/24/2017		125.0000		
Barium, total	ug/L	MW-2	04/02/2019		290.0000		
Barium, total	ug/L	MW-2	03/25/2020		137.0000		
Beryllium, total	ug/L	MW-2	04/04/2015	ND	4.0000		
Beryllium, total	ug/L	MW-2	10/01/2015	ND	4.0000		
Beryllium, total	ug/L	MW-2	04/04/2016	ND	4.0000		
Beryllium, total	ug/L	MW-2	04/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-2	04/02/2019	ND	4.0000		
Beryllium, total	ug/L	MW-2	03/25/2020	ND	4.0000		
Cadmium, total	ug/L	MW-2	04/04/2015	ND	0.8000		
Cadmium, total	ug/L	MW-2	10/01/2015	ND	0.8000		
Cadmium, total	ug/L	MW-2	04/04/2016	ND	0.8000		
Cadmium, total	ug/L	MW-2	04/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-2	04/02/2019	ND	0.8000		
Cadmium, total	ug/L	MW-2	03/25/2020	ND	0.8000		
Chromium, total	ug/L	MW-2	04/04/2015	ND	8.0000		
Chromium, total	ug/L	MW-2	10/01/2015	ND	8.0000		

* - 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, total	ug/L	MW-2	04/04/2016	ND	8.0000		
Chromium, total	ug/L	MW-2	04/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-2	04/02/2019	ND	8.0000		
Chromium, total	ug/L	MW-2	03/25/2020	ND	8.0000		
Cobalt, total	ug/L	MW-2	04/04/2015		7.4000		
Cobalt, total	ug/L	MW-2	10/01/2015		6.4000		
Cobalt, total	ug/L	MW-2	04/04/2016		8.2000		
Cobalt, total	ug/L	MW-2	04/24/2017	ND	0.8000		
Cobalt, total	ug/L	MW-2	04/02/2019	ND	0.8000		
Cobalt, total	ug/L	MW-2	03/25/2020	ND	0.8000		
Copper, total	ug/L	MW-2	04/04/2015	ND	4.0000		
Copper, total	ug/L	MW-2	10/01/2015	ND	4.0000		
Copper, total	ug/L	MW-2	04/04/2016	ND	4.0000		
Copper, total	ug/L	MW-2	04/24/2017	ND	4.0000		
Copper, total	ug/L	MW-2	04/02/2019	ND	4.0000		
Copper, total	ug/L	MW-2	03/25/2020		117.0000		*
Lead, total	ug/L	MW-2	04/04/2015	ND	4.0000		
Lead, total	ug/L	MW-2	10/01/2015	ND	4.0000		
Lead, total	ug/L	MW-2	04/04/2016	ND	4.0000		
Lead, total	ug/L	MW-2	04/24/2017	ND	4.0000		
Lead, total	ug/L	MW-2	04/02/2019		13.6000		*
Lead, total	ug/L	MW-2	03/25/2020	ND	4.0000		
Nickel, total	ug/L	MW-2	04/04/2015		21.1000		
Nickel, total	ug/L	MW-2	10/01/2015		7.8000		
Nickel, total	ug/L	MW-2	04/04/2016		16.6000		
Nickel, total	ug/L	MW-2	04/24/2017	ND	4.0000		
Nickel, total	ug/L	MW-2	04/02/2019		8.8000		
Nickel, total	ug/L	MW-2	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-2	04/04/2015	ND	4.0000		
Selenium, total	ug/L	MW-2	10/01/2015	ND	4.0000		
Selenium, total	ug/L	MW-2	04/04/2016	ND	4.0000		
Selenium, total	ug/L	MW-2	04/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-2	04/02/2019	ND	4.0000		
Selenium, total	ug/L	MW-2	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-2	04/04/2015	ND	4.0000		
Silver, total	ug/L	MW-2	10/01/2015	ND	4.0000		
Silver, total	ug/L	MW-2	04/04/2016	ND	4.0000		
Silver, total	ug/L	MW-2	04/24/2017	ND	4.0000		
Silver, total	ug/L	MW-2	04/02/2019	ND	4.0000		
Silver, total	ug/L	MW-2	03/25/2020	ND	4.0000		
Thallium, total	ug/L	MW-2	04/04/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2	10/01/2015	ND	1.0000	2.0000	**
Thallium, total	ug/L	MW-2	04/04/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2	04/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2	04/02/2019	ND	2.0000		
Thallium, total	ug/L	MW-2	03/25/2020	ND	2.0000		
Vanadium, total	ug/L	MW-2	04/04/2015	ND	20.0000		
Vanadium, total	ug/L	MW-2	10/01/2015	ND	20.0000		
Vanadium, total	ug/L	MW-2	04/04/2016	ND	20.0000		
Vanadium, total	ug/L	MW-2	04/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-2	04/02/2019	ND	20.0000		
Vanadium, total	ug/L	MW-2	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-2	04/04/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-2	10/01/2015		9.1000		
Zinc, total	ug/L	MW-2	04/04/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-2	04/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-2	04/02/2019	ND	20.0000		
Zinc, total	ug/L	MW-2	03/25/2020	ND	20.0000		
Antimony, total	ug/L	MW-24	10/16/2014	ND	2.0000		
Antimony, total	ug/L	MW-24	04/04/2015	ND	2.0000		
Antimony, total	ug/L	MW-24	10/01/2015	ND	2.0000		
Antimony, total	ug/L	MW-24	04/04/2016	ND	2.0000		
Antimony, total	ug/L	MW-24	09/20/2016	ND	2.0000		
Antimony, total	ug/L	MW-24	04/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-24	10/09/2017	ND	2.0000		
Antimony, total	ug/L	MW-24	03/21/2018	ND	2.0000		
Antimony, total	ug/L	MW-24	09/07/2018	ND	2.0000		
Antimony, total	ug/L	MW-24	04/02/2019	ND	2.0000		
Antimony, total	ug/L	MW-24	09/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-24	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-24	09/15/2020	ND	2.0000		
Antimony, total	ug/L	MW-24	03/08/2021	ND	2.0000		
Antimony, total	ug/L	MW-24	09/28/2021	ND	2.0000		
Antimony, total	ug/L	MW-24	03/08/2022	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	
Antimony, total	ug/L	MW-24	08/30/2022	ND	2.0000		
Antimony, total	ug/L	MW-24	03/07/2023	ND	2.0000		
Antimony, total	ug/L	MW-24	09/11/2023	ND	2.0000		
Arsenic, total	ug/L	MW-24	10/16/2014		65.9000		
Arsenic, total	ug/L	MW-24	04/04/2015		25.0000		
Arsenic, total	ug/L	MW-24	10/01/2015		47.2000		
Arsenic, total	ug/L	MW-24	04/04/2016		88.5000		
Arsenic, total	ug/L	MW-24	09/20/2016		51.1000		
Arsenic, total	ug/L	MW-24	04/24/2017		139.0000		
Arsenic, total	ug/L	MW-24	10/09/2017		72.0000		
Arsenic, total	ug/L	MW-24	03/21/2018		155.0000		
Arsenic, total	ug/L	MW-24	09/07/2018		129.0000		
Arsenic, total	ug/L	MW-24	04/02/2019		210.0000	*	
Arsenic, total	ug/L	MW-24	09/18/2019		117.0000		
Arsenic, total	ug/L	MW-24	03/25/2020		167.0000		
Arsenic, total	ug/L	MW-24	09/15/2020		61.6000		
Arsenic, total	ug/L	MW-24	03/08/2021		133.0000		
Arsenic, total	ug/L	MW-24	09/28/2021		142.0000		
Arsenic, total	ug/L	MW-24	03/08/2022		115.0000		
Arsenic, total	ug/L	MW-24	08/30/2022		101.0000		
Arsenic, total	ug/L	MW-24	03/07/2023		12.9000		
Arsenic, total	ug/L	MW-24	09/11/2023		57.9000		
Barium, total	ug/L	MW-24	10/16/2014		1150.0000		
Barium, total	ug/L	MW-24	04/04/2015		671.0000		
Barium, total	ug/L	MW-24	10/01/2015		772.0000		
Barium, total	ug/L	MW-24	04/04/2016		975.0000		
Barium, total	ug/L	MW-24	09/20/2016		641.0000		
Barium, total	ug/L	MW-24	04/24/2017		1260.0000		
Barium, total	ug/L	MW-24	10/09/2017		713.0000		
Barium, total	ug/L	MW-24	03/21/2018		1140.0000		
Barium, total	ug/L	MW-24	09/07/2018		968.0000		
Barium, total	ug/L	MW-24	04/02/2019		1500.0000		
Barium, total	ug/L	MW-24	09/18/2019		1100.0000		
Barium, total	ug/L	MW-24	03/25/2020		1080.0000		
Barium, total	ug/L	MW-24	09/15/2020		638.0000		
Barium, total	ug/L	MW-24	03/08/2021		901.0000		
Barium, total	ug/L	MW-24	09/28/2021		824.0000		
Barium, total	ug/L	MW-24	03/08/2022		801.0000		
Barium, total	ug/L	MW-24	08/30/2022		579.0000		
Barium, total	ug/L	MW-24	03/07/2023		385.0000		
Barium, total	ug/L	MW-24	09/11/2023		508.0000		
Beryllium, total	ug/L	MW-24	10/16/2014	ND	4.0000		
Beryllium, total	ug/L	MW-24	04/04/2015	ND	4.0000		
Beryllium, total	ug/L	MW-24	10/01/2015	ND	4.0000		
Beryllium, total	ug/L	MW-24	04/04/2016	ND	4.0000		
Beryllium, total	ug/L	MW-24	09/20/2016	ND	4.0000		
Beryllium, total	ug/L	MW-24	04/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-24	10/09/2017	ND	4.0000		
Beryllium, total	ug/L	MW-24	03/21/2018	ND	4.0000		
Beryllium, total	ug/L	MW-24	09/07/2018	ND	4.0000		
Beryllium, total	ug/L	MW-24	04/02/2019	ND	4.0000		
Beryllium, total	ug/L	MW-24	09/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-24	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-24	09/15/2020	ND	4.0000		
Beryllium, total	ug/L	MW-24	03/08/2021	ND	4.0000		
Beryllium, total	ug/L	MW-24	09/28/2021	ND	4.0000		
Beryllium, total	ug/L	MW-24	03/08/2022	ND	4.0000		
Beryllium, total	ug/L	MW-24	08/30/2022	ND	4.0000		
Beryllium, total	ug/L	MW-24	03/07/2023	ND	4.0000		
Beryllium, total	ug/L	MW-24	09/11/2023	ND	4.0000		
Cadmium, total	ug/L	MW-24	10/16/2014		1.6000		
Cadmium, total	ug/L	MW-24	04/04/2015	ND	0.8000		
Cadmium, total	ug/L	MW-24	10/01/2015	ND	0.8000		
Cadmium, total	ug/L	MW-24	04/04/2016		0.8000		
Cadmium, total	ug/L	MW-24	09/20/2016	ND	0.8000		
Cadmium, total	ug/L	MW-24	04/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-24	10/09/2017	ND	0.8000		
Cadmium, total	ug/L	MW-24	03/21/2018	ND	0.8000		
Cadmium, total	ug/L	MW-24	09/07/2018	ND	0.8000		
Cadmium, total	ug/L	MW-24	04/02/2019		1.8000		
Cadmium, total	ug/L	MW-24	09/18/2019		1.0000		
Cadmium, total	ug/L	MW-24	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-24	09/15/2020	ND	0.8000		
Cadmium, total	ug/L	MW-24	03/08/2021		2.4000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW-24	09/28/2021	ND	0.8000		
Cadmium, total	ug/L	MW-24	03/08/2022		0.8000		
Cadmium, total	ug/L	MW-24	08/30/2022	ND	0.8000		
Cadmium, total	ug/L	MW-24	03/07/2023	ND	0.8000		
Cadmium, total	ug/L	MW-24	09/11/2023	ND	0.8000		
Chromium, total	ug/L	MW-24	10/16/2014		37.5000		*
Chromium, total	ug/L	MW-24	04/04/2015	ND	8.0000		
Chromium, total	ug/L	MW-24	10/01/2015	ND	8.0000		
Chromium, total	ug/L	MW-24	04/04/2016	ND	8.0000		
Chromium, total	ug/L	MW-24	09/20/2016	ND	8.0000		
Chromium, total	ug/L	MW-24	04/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-24	10/09/2017	ND	8.0000		
Chromium, total	ug/L	MW-24	03/21/2018	ND	8.0000		
Chromium, total	ug/L	MW-24	09/07/2018	ND	8.0000		
Chromium, total	ug/L	MW-24	04/02/2019	ND	8.0000		
Chromium, total	ug/L	MW-24	09/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-24	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-24	09/15/2020	ND	8.0000		
Chromium, total	ug/L	MW-24	03/08/2021	ND	8.0000		
Chromium, total	ug/L	MW-24	09/28/2021	ND	8.0000		
Chromium, total	ug/L	MW-24	03/08/2022	ND	8.0000		
Chromium, total	ug/L	MW-24	08/30/2022	ND	8.0000		
Chromium, total	ug/L	MW-24	03/07/2023	ND	8.0000		
Chromium, total	ug/L	MW-24	09/11/2023	ND	8.0000		
Cobalt, total	ug/L	MW-24	10/16/2014		37.2000		*
Cobalt, total	ug/L	MW-24	04/04/2015		14.0000		
Cobalt, total	ug/L	MW-24	10/01/2015		2.0000		
Cobalt, total	ug/L	MW-24	04/04/2016		3.7000		
Cobalt, total	ug/L	MW-24	09/20/2016		5.6000		
Cobalt, total	ug/L	MW-24	04/24/2017		2.2000		
Cobalt, total	ug/L	MW-24	10/09/2017		1.2000		
Cobalt, total	ug/L	MW-24	03/21/2018	ND	2.0000	0.8000	**
Cobalt, total	ug/L	MW-24	09/07/2018		0.9000		
Cobalt, total	ug/L	MW-24	04/02/2019		2.0000		
Cobalt, total	ug/L	MW-24	09/18/2019		1.6000		
Cobalt, total	ug/L	MW-24	03/25/2020		2.1000		
Cobalt, total	ug/L	MW-24	09/15/2020		0.8000		
Cobalt, total	ug/L	MW-24	03/08/2021		1.1000		
Cobalt, total	ug/L	MW-24	09/28/2021		1.0000		
Cobalt, total	ug/L	MW-24	03/08/2022		1.7000		
Cobalt, total	ug/L	MW-24	08/30/2022		0.6000		
Cobalt, total	ug/L	MW-24	03/07/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-24	09/11/2023		1.2000		
Copper, total	ug/L	MW-24	10/16/2014		67.1000		*
Copper, total	ug/L	MW-24	04/04/2015		10.0000		
Copper, total	ug/L	MW-24	10/01/2015	ND	4.0000		
Copper, total	ug/L	MW-24	04/04/2016	ND	4.0000		
Copper, total	ug/L	MW-24	09/20/2016	ND	4.0000		
Copper, total	ug/L	MW-24	04/24/2017	ND	4.0000		
Copper, total	ug/L	MW-24	10/09/2017	ND	4.0000		
Copper, total	ug/L	MW-24	03/21/2018	ND	4.0000		
Copper, total	ug/L	MW-24	09/07/2018	ND	4.0000		
Copper, total	ug/L	MW-24	04/02/2019	ND	4.0000		
Copper, total	ug/L	MW-24	09/18/2019	ND	4.0000		
Copper, total	ug/L	MW-24	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-24	09/15/2020	ND	4.0000		
Copper, total	ug/L	MW-24	03/08/2021	ND	4.0000		
Copper, total	ug/L	MW-24	09/28/2021	ND	4.0000		
Copper, total	ug/L	MW-24	03/08/2022	ND	4.0000		
Copper, total	ug/L	MW-24	08/30/2022	ND	4.0000		
Copper, total	ug/L	MW-24	03/07/2023	ND	4.0000		
Copper, total	ug/L	MW-24	09/11/2023	ND	4.0000		
Lead, total	ug/L	MW-24	10/16/2014		27.0000		*
Lead, total	ug/L	MW-24	04/04/2015	ND	4.0000		
Lead, total	ug/L	MW-24	10/01/2015	ND	4.0000		
Lead, total	ug/L	MW-24	04/04/2016	ND	4.0000		
Lead, total	ug/L	MW-24	09/20/2016	ND	4.0000		
Lead, total	ug/L	MW-24	04/24/2017	ND	4.0000		
Lead, total	ug/L	MW-24	10/09/2017	ND	4.0000		
Lead, total	ug/L	MW-24	03/21/2018	ND	4.0000		
Lead, total	ug/L	MW-24	09/07/2018	ND	4.0000		
Lead, total	ug/L	MW-24	04/02/2019		6.8000		
Lead, total	ug/L	MW-24	09/18/2019	ND	4.0000		
Lead, total	ug/L	MW-24	03/25/2020	ND	4.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lead, total	ug/L	MW-24	09/15/2020	ND	4.0000		
Lead, total	ug/L	MW-24	03/08/2021	ND	4.0000		
Lead, total	ug/L	MW-24	09/28/2021	ND	4.0000		
Lead, total	ug/L	MW-24	03/08/2022	ND	4.0000		
Lead, total	ug/L	MW-24	08/30/2022	ND	4.0000		
Lead, total	ug/L	MW-24	03/07/2023	ND	4.0000		
Lead, total	ug/L	MW-24	09/11/2023	ND	4.0000		
Nickel, total	ug/L	MW-24	10/16/2014		81.2000		*
Nickel, total	ug/L	MW-24	04/04/2015		25.1000		*
Nickel, total	ug/L	MW-24	10/01/2015	ND	4.0000		
Nickel, total	ug/L	MW-24	04/04/2016		4.0000		
Nickel, total	ug/L	MW-24	09/20/2016	ND	4.0000		
Nickel, total	ug/L	MW-24	04/24/2017		4.3000		
Nickel, total	ug/L	MW-24	10/09/2017	ND	4.0000		
Nickel, total	ug/L	MW-24	03/21/2018	ND	20.0000		*
Nickel, total	ug/L	MW-24	09/07/2018	ND	4.0000		
Nickel, total	ug/L	MW-24	04/02/2019	ND	4.0000		
Nickel, total	ug/L	MW-24	09/18/2019	ND	4.0000		
Nickel, total	ug/L	MW-24	03/25/2020	ND	4.0000		
Nickel, total	ug/L	MW-24	09/15/2020	ND	4.0000		
Nickel, total	ug/L	MW-24	03/08/2021	ND	4.0000		
Nickel, total	ug/L	MW-24	09/28/2021	ND	4.0000		
Nickel, total	ug/L	MW-24	03/08/2022	ND	4.0000		
Nickel, total	ug/L	MW-24	08/30/2022	ND	4.0000		
Nickel, total	ug/L	MW-24	03/07/2023	ND	4.0000		
Nickel, total	ug/L	MW-24	09/11/2023	ND	4.0000		
Selenium, total	ug/L	MW-24	10/16/2014		16.4000		*
Selenium, total	ug/L	MW-24	04/04/2015	ND	4.0000		
Selenium, total	ug/L	MW-24	10/01/2015	ND	4.0000		
Selenium, total	ug/L	MW-24	04/04/2016	ND	4.0000		
Selenium, total	ug/L	MW-24	09/20/2016	ND	4.0000		
Selenium, total	ug/L	MW-24	04/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-24	10/09/2017	ND	4.0000		
Selenium, total	ug/L	MW-24	03/21/2018	ND	4.0000		
Selenium, total	ug/L	MW-24	09/07/2018	ND	4.0000		
Selenium, total	ug/L	MW-24	04/02/2019	ND	4.0000		
Selenium, total	ug/L	MW-24	09/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-24	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-24	09/15/2020	ND	4.0000		
Selenium, total	ug/L	MW-24	03/08/2021	ND	4.0000		
Selenium, total	ug/L	MW-24	09/28/2021	ND	4.0000		
Selenium, total	ug/L	MW-24	03/08/2022	ND	4.0000		
Selenium, total	ug/L	MW-24	08/30/2022	ND	4.0000		
Selenium, total	ug/L	MW-24	03/07/2023	ND	4.0000		
Selenium, total	ug/L	MW-24	09/11/2023	ND	4.0000		
Silver, total	ug/L	MW-24	10/16/2014	ND	4.0000		
Silver, total	ug/L	MW-24	04/04/2015	ND	4.0000		
Silver, total	ug/L	MW-24	10/01/2015	ND	4.0000		
Silver, total	ug/L	MW-24	04/04/2016	ND	4.0000		
Silver, total	ug/L	MW-24	09/20/2016	ND	4.0000		
Silver, total	ug/L	MW-24	04/24/2017	ND	4.0000		
Silver, total	ug/L	MW-24	10/09/2017	ND	4.0000		
Silver, total	ug/L	MW-24	03/21/2018	ND	4.0000		
Silver, total	ug/L	MW-24	09/07/2018	ND	4.0000		
Silver, total	ug/L	MW-24	04/02/2019	ND	4.0000		
Silver, total	ug/L	MW-24	09/18/2019	ND	4.0000		
Silver, total	ug/L	MW-24	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-24	09/15/2020	ND	4.0000		
Silver, total	ug/L	MW-24	03/08/2021	ND	4.0000		
Silver, total	ug/L	MW-24	09/28/2021	ND	4.0000		
Silver, total	ug/L	MW-24	03/08/2022	ND	4.0000		
Silver, total	ug/L	MW-24	08/30/2022	ND	4.0000		
Silver, total	ug/L	MW-24	03/07/2023	ND	4.0000		
Silver, total	ug/L	MW-24	09/11/2023	ND	4.0000		
Thallium, total	ug/L	MW-24	10/16/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	04/04/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	10/01/2015	ND	1.0000	2.0000	**
Thallium, total	ug/L	MW-24	04/04/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	09/20/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	04/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	10/09/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	03/21/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	09/07/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	04/02/2019	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	09/18/2019	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	03/25/2020	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	09/15/2020	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	03/08/2021	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	09/28/2021	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	03/08/2022	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	08/30/2022	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	03/07/2023	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-24	04/02/2019	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	
Thallium, total	ug/L	MW-24	09/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-24	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-24	09/15/2020	ND	2.0000		
Thallium, total	ug/L	MW-24	03/08/2021	ND	2.0000		
Thallium, total	ug/L	MW-24	09/28/2021	ND	2.0000		
Thallium, total	ug/L	MW-24	03/08/2022	ND	2.0000		
Thallium, total	ug/L	MW-24	08/30/2022	ND	2.0000		
Thallium, total	ug/L	MW-24	03/07/2023	ND	2.0000		
Thallium, total	ug/L	MW-24	09/11/2023	ND	2.0000		
Vanadium, total	ug/L	MW-24	10/16/2014		72.3000		*
Vanadium, total	ug/L	MW-24	04/04/2015	ND	20.0000		
Vanadium, total	ug/L	MW-24	10/01/2015	ND	20.0000		
Vanadium, total	ug/L	MW-24	04/04/2016	ND	20.0000		
Vanadium, total	ug/L	MW-24	09/20/2016	ND	20.0000		
Vanadium, total	ug/L	MW-24	04/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-24	10/09/2017	ND	20.0000		
Vanadium, total	ug/L	MW-24	03/21/2018	ND	20.0000		
Vanadium, total	ug/L	MW-24	09/07/2018	ND	20.0000		
Vanadium, total	ug/L	MW-24	04/02/2019	ND	20.0000		
Vanadium, total	ug/L	MW-24	09/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-24	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-24	09/15/2020	ND	20.0000		
Vanadium, total	ug/L	MW-24	03/08/2021	ND	20.0000		
Vanadium, total	ug/L	MW-24	09/28/2021	ND	20.0000		
Vanadium, total	ug/L	MW-24	03/08/2022	ND	20.0000		
Vanadium, total	ug/L	MW-24	08/30/2022	ND	20.0000		
Vanadium, total	ug/L	MW-24	03/07/2023	ND	20.0000		
Vanadium, total	ug/L	MW-24	09/11/2023	ND	20.0000		
Zinc, total	ug/L	MW-24	10/16/2014		117.0000		
Zinc, total	ug/L	MW-24	04/04/2015		16.2000		
Zinc, total	ug/L	MW-24	10/01/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-24	04/04/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-24	09/20/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-24	04/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-24	10/09/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-24	03/21/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-24	09/07/2018		106.0000		
Zinc, total	ug/L	MW-24	04/02/2019		39.2000		
Zinc, total	ug/L	MW-24	09/18/2019		56.9000		
Zinc, total	ug/L	MW-24	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-24	09/15/2020	ND	20.0000		
Zinc, total	ug/L	MW-24	03/08/2021	ND	20.0000		
Zinc, total	ug/L	MW-24	09/28/2021	ND	20.0000		
Zinc, total	ug/L	MW-24	03/08/2022	ND	20.0000		
Zinc, total	ug/L	MW-24	08/30/2022	ND	20.0000		
Zinc, total	ug/L	MW-24	03/07/2023	ND	20.0000		
Zinc, total	ug/L	MW-24	09/11/2023	ND	20.0000		
Antimony, total	ug/L	MW-9	10/16/2014	ND	2.0000		
Antimony, total	ug/L	MW-9	04/04/2015	ND	2.0000		
Antimony, total	ug/L	MW-9	10/01/2015	ND	2.0000		
Antimony, total	ug/L	MW-9	04/04/2016	ND	2.0000		
Antimony, total	ug/L	MW-9	09/20/2016	ND	2.0000		
Antimony, total	ug/L	MW-9	04/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-9	10/09/2017	ND	2.0000		
Antimony, total	ug/L	MW-9	03/21/2018	ND	2.0000		
Antimony, total	ug/L	MW-9	09/07/2018	ND	2.0000		
Antimony, total	ug/L	MW-9	04/02/2019	ND	2.0000		
Antimony, total	ug/L	MW-9	09/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-9	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-9	09/15/2020	ND	2.0000		
Antimony, total	ug/L	MW-9	03/08/2021	ND	2.0000		
Antimony, total	ug/L	MW-9	09/28/2021	ND	2.0000		
Antimony, total	ug/L	MW-9	03/08/2022	ND	2.0000		
Antimony, total	ug/L	MW-9	08/30/2022	ND	2.0000		
Antimony, total	ug/L	MW-9	03/07/2023	ND	2.0000		
Antimony, total	ug/L	MW-9	09/11/2023	ND	2.0000		
Arsenic, total	ug/L	MW-9	10/16/2014		6.1000		
Arsenic, total	ug/L	MW-9	04/04/2015		8.4000		
Arsenic, total	ug/L	MW-9	10/01/2015		8.9000		
Arsenic, total	ug/L	MW-9	04/04/2016		5.9000		
Arsenic, total	ug/L	MW-9	09/20/2016	ND	4.0000		
Arsenic, total	ug/L	MW-9	04/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-9	10/09/2017	ND	4.0000		
Arsenic, total	ug/L	MW-9	03/21/2018	ND	4.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Arsenic, total	ug/L	MW-9	09/07/2018		12.2000		
Arsenic, total	ug/L	MW-9	04/02/2019	ND	4.0000		
Arsenic, total	ug/L	MW-9	09/18/2019		19.4000		
Arsenic, total	ug/L	MW-9	03/25/2020	ND	4.0000		
Arsenic, total	ug/L	MW-9	09/15/2020	ND	4.0000		
Arsenic, total	ug/L	MW-9	03/08/2021	ND	4.0000		
Arsenic, total	ug/L	MW-9	09/28/2021	ND	4.0000		
Arsenic, total	ug/L	MW-9	03/08/2022	ND	4.0000		
Arsenic, total	ug/L	MW-9	08/30/2022	ND	4.0000		
Arsenic, total	ug/L	MW-9	03/07/2023	ND	4.0000		
Arsenic, total	ug/L	MW-9	09/11/2023		7.2000		
Barium, total	ug/L	MW-9	10/16/2014		271.0000		
Barium, total	ug/L	MW-9	04/04/2015		291.0000		
Barium, total	ug/L	MW-9	10/01/2015		291.0000		
Barium, total	ug/L	MW-9	04/04/2016		259.0000		
Barium, total	ug/L	MW-9	09/20/2016		267.0000		
Barium, total	ug/L	MW-9	04/24/2017		264.0000		
Barium, total	ug/L	MW-9	10/09/2017		253.0000		
Barium, total	ug/L	MW-9	03/21/2018		266.0000		
Barium, total	ug/L	MW-9	09/07/2018		290.0000		
Barium, total	ug/L	MW-9	04/02/2019		270.0000		
Barium, total	ug/L	MW-9	09/18/2019		332.0000		
Barium, total	ug/L	MW-9	03/25/2020		272.0000		
Barium, total	ug/L	MW-9	09/15/2020		285.0000		
Barium, total	ug/L	MW-9	03/08/2021		292.0000		
Barium, total	ug/L	MW-9	09/28/2021		259.0000		
Barium, total	ug/L	MW-9	03/08/2022		291.0000		
Barium, total	ug/L	MW-9	08/30/2022		241.0000		
Barium, total	ug/L	MW-9	03/07/2023		269.0000		
Barium, total	ug/L	MW-9	09/11/2023		288.0000		
Beryllium, total	ug/L	MW-9	10/16/2014	ND	4.0000		
Beryllium, total	ug/L	MW-9	04/04/2015	ND	4.0000		
Beryllium, total	ug/L	MW-9	10/01/2015	ND	4.0000		
Beryllium, total	ug/L	MW-9	04/04/2016	ND	4.0000		
Beryllium, total	ug/L	MW-9	09/20/2016	ND	4.0000		
Beryllium, total	ug/L	MW-9	04/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-9	10/09/2017	ND	4.0000		
Beryllium, total	ug/L	MW-9	03/21/2018	ND	4.0000		
Beryllium, total	ug/L	MW-9	09/07/2018	ND	4.0000		
Beryllium, total	ug/L	MW-9	04/02/2019	ND	4.0000		
Beryllium, total	ug/L	MW-9	09/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-9	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-9	09/15/2020	ND	4.0000		
Beryllium, total	ug/L	MW-9	03/08/2021	ND	4.0000		
Beryllium, total	ug/L	MW-9	09/28/2021	ND	4.0000		
Beryllium, total	ug/L	MW-9	03/08/2022	ND	4.0000		
Beryllium, total	ug/L	MW-9	08/30/2022	ND	4.0000		
Beryllium, total	ug/L	MW-9	03/07/2023	ND	4.0000		
Beryllium, total	ug/L	MW-9	09/11/2023	ND	4.0000		
Cadmium, total	ug/L	MW-9	10/16/2014	ND	0.8000		
Cadmium, total	ug/L	MW-9	04/04/2015	ND	0.8000		
Cadmium, total	ug/L	MW-9	10/01/2015	ND	0.8000		
Cadmium, total	ug/L	MW-9	04/04/2016		1.5000		
Cadmium, total	ug/L	MW-9	09/20/2016	ND	0.8000		
Cadmium, total	ug/L	MW-9	04/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-9	10/09/2017	ND	0.8000		
Cadmium, total	ug/L	MW-9	03/21/2018	ND	0.8000		
Cadmium, total	ug/L	MW-9	09/07/2018	ND	0.8000		
Cadmium, total	ug/L	MW-9	04/02/2019	ND	0.8000		
Cadmium, total	ug/L	MW-9	09/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-9	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-9	09/15/2020	ND	0.8000		
Cadmium, total	ug/L	MW-9	03/08/2021	ND	0.8000		
Cadmium, total	ug/L	MW-9	09/28/2021	ND	0.8000		
Cadmium, total	ug/L	MW-9	03/08/2022	ND	0.8000		
Cadmium, total	ug/L	MW-9	08/30/2022	ND	0.8000		
Cadmium, total	ug/L	MW-9	03/07/2023	ND	0.8000		
Cadmium, total	ug/L	MW-9	09/11/2023	ND	0.8000		
Chromium, total	ug/L	MW-9	10/16/2014	ND	8.0000		
Chromium, total	ug/L	MW-9	04/04/2015	ND	8.0000		
Chromium, total	ug/L	MW-9	10/01/2015	ND	8.0000		
Chromium, total	ug/L	MW-9	04/04/2016	ND	8.0000		
Chromium, total	ug/L	MW-9	09/20/2016	ND	8.0000		
Chromium, total	ug/L	MW-9	04/24/2017	ND	8.0000		

* - 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, total	ug/L	MW-9	10/09/2017	ND	8.0000		
Chromium, total	ug/L	MW-9	03/21/2018	ND	8.0000		
Chromium, total	ug/L	MW-9	09/07/2018	ND	8.0000		
Chromium, total	ug/L	MW-9	04/02/2019	ND	8.0000		
Chromium, total	ug/L	MW-9	09/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-9	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-9	09/15/2020	ND	8.0000		
Chromium, total	ug/L	MW-9	03/08/2021	ND	8.0000		
Chromium, total	ug/L	MW-9	09/28/2021	ND	8.0000		
Chromium, total	ug/L	MW-9	03/08/2022	ND	8.0000		
Chromium, total	ug/L	MW-9	08/30/2022	ND	8.0000		
Chromium, total	ug/L	MW-9	03/07/2023	ND	8.0000		
Chromium, total	ug/L	MW-9	09/11/2023	ND	8.0000		
Cobalt, total	ug/L	MW-9	10/16/2014		5.8000		
Cobalt, total	ug/L	MW-9	04/04/2015		6.0000		
Cobalt, total	ug/L	MW-9	10/01/2015		4.6000		
Cobalt, total	ug/L	MW-9	04/04/2016		5.7000		
Cobalt, total	ug/L	MW-9	09/20/2016		6.4000		
Cobalt, total	ug/L	MW-9	04/24/2017		5.2000		
Cobalt, total	ug/L	MW-9	10/09/2017		4.9000		
Cobalt, total	ug/L	MW-9	03/21/2018		5.3000		
Cobalt, total	ug/L	MW-9	09/07/2018		5.4000		
Cobalt, total	ug/L	MW-9	04/02/2019		5.4000		
Cobalt, total	ug/L	MW-9	09/18/2019		5.7000		
Cobalt, total	ug/L	MW-9	03/25/2020		5.3000		
Cobalt, total	ug/L	MW-9	09/15/2020		5.8000		
Cobalt, total	ug/L	MW-9	03/08/2021		5.1000		
Cobalt, total	ug/L	MW-9	09/28/2021		4.8000		
Cobalt, total	ug/L	MW-9	03/08/2022		5.1000		
Cobalt, total	ug/L	MW-9	08/30/2022		5.0000		
Cobalt, total	ug/L	MW-9	03/07/2023		4.8000		
Cobalt, total	ug/L	MW-9	09/11/2023		5.3000		
Copper, total	ug/L	MW-9	10/16/2014		4.3000		
Copper, total	ug/L	MW-9	04/04/2015		26.3000		*
Copper, total	ug/L	MW-9	10/01/2015	ND	4.0000		
Copper, total	ug/L	MW-9	04/04/2016		5.3000		
Copper, total	ug/L	MW-9	09/20/2016		8.4000		
Copper, total	ug/L	MW-9	04/24/2017	ND	4.0000		
Copper, total	ug/L	MW-9	10/09/2017	ND	4.0000		
Copper, total	ug/L	MW-9	03/21/2018		18.0000		*
Copper, total	ug/L	MW-9	06/11/2018	ND	4.0000		
Copper, total	ug/L	MW-9	09/07/2018	ND	4.0000		
Copper, total	ug/L	MW-9	04/02/2019	ND	4.0000		
Copper, total	ug/L	MW-9	09/18/2019		7.1000		
Copper, total	ug/L	MW-9	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-9	09/15/2020	ND	4.0000		
Copper, total	ug/L	MW-9	03/08/2021	ND	4.0000		
Copper, total	ug/L	MW-9	09/28/2021	ND	4.0000		
Copper, total	ug/L	MW-9	03/08/2022	ND	4.0000		
Copper, total	ug/L	MW-9	08/30/2022	ND	4.0000		
Copper, total	ug/L	MW-9	03/07/2023	ND	4.0000		
Copper, total	ug/L	MW-9	09/11/2023	ND	4.0000		
Lead, total	ug/L	MW-9	10/16/2014	ND	4.0000		
Lead, total	ug/L	MW-9	04/04/2015	ND	4.0000		
Lead, total	ug/L	MW-9	10/01/2015	ND	4.0000		
Lead, total	ug/L	MW-9	04/04/2016	ND	4.0000		
Lead, total	ug/L	MW-9	09/20/2016	ND	4.0000		
Lead, total	ug/L	MW-9	04/24/2017	ND	4.0000		
Lead, total	ug/L	MW-9	10/09/2017	ND	4.0000		
Lead, total	ug/L	MW-9	03/21/2018	ND	4.0000		
Lead, total	ug/L	MW-9	09/07/2018	ND	4.0000		
Lead, total	ug/L	MW-9	04/02/2019	ND	4.0000		
Lead, total	ug/L	MW-9	09/18/2019	ND	4.0000		
Lead, total	ug/L	MW-9	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-9	09/15/2020	ND	4.0000		
Lead, total	ug/L	MW-9	03/08/2021	ND	4.0000		
Lead, total	ug/L	MW-9	09/28/2021	ND	4.0000		
Lead, total	ug/L	MW-9	03/08/2022	ND	4.0000		
Lead, total	ug/L	MW-9	08/30/2022	ND	4.0000		
Lead, total	ug/L	MW-9	03/07/2023	ND	4.0000		
Lead, total	ug/L	MW-9	09/11/2023	ND	4.0000		
Nickel, total	ug/L	MW-9	10/16/2014		12.4000		
Nickel, total	ug/L	MW-9	04/04/2015		11.8000		
Nickel, total	ug/L	MW-9	10/01/2015		8.6000		

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 *** - ND value replaced with manual RL.
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Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Nickel, total	ug/L	MW-9	04/04/2016		11.2000		
Nickel, total	ug/L	MW-9	09/20/2016		8.2000		
Nickel, total	ug/L	MW-9	04/24/2017		10.9000		
Nickel, total	ug/L	MW-9	10/09/2017		11.0000		
Nickel, total	ug/L	MW-9	03/21/2018		10.9000		
Nickel, total	ug/L	MW-9	09/07/2018		10.6000		
Nickel, total	ug/L	MW-9	04/02/2019		11.0000		
Nickel, total	ug/L	MW-9	09/18/2019		11.6000		
Nickel, total	ug/L	MW-9	03/25/2020		11.0000		
Nickel, total	ug/L	MW-9	09/15/2020		11.2000		
Nickel, total	ug/L	MW-9	03/08/2021		10.1000		
Nickel, total	ug/L	MW-9	09/28/2021		9.5000		
Nickel, total	ug/L	MW-9	03/08/2022		10.6000		
Nickel, total	ug/L	MW-9	08/30/2022		9.8000		
Nickel, total	ug/L	MW-9	03/07/2023		10.0000		
Nickel, total	ug/L	MW-9	09/11/2023		9.8000		
Selenium, total	ug/L	MW-9	10/16/2014	ND	4.0000		
Selenium, total	ug/L	MW-9	04/04/2015	ND	4.0000		
Selenium, total	ug/L	MW-9	10/01/2015	ND	4.0000		
Selenium, total	ug/L	MW-9	04/04/2016	ND	4.0000		
Selenium, total	ug/L	MW-9	09/20/2016	ND	4.0000		
Selenium, total	ug/L	MW-9	04/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-9	10/09/2017	ND	4.0000		
Selenium, total	ug/L	MW-9	03/21/2018	ND	4.0000		
Selenium, total	ug/L	MW-9	09/07/2018	ND	4.0000		
Selenium, total	ug/L	MW-9	04/02/2019	ND	4.0000		
Selenium, total	ug/L	MW-9	09/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-9	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-9	09/15/2020	ND	4.0000		
Selenium, total	ug/L	MW-9	03/08/2021	ND	4.0000		
Selenium, total	ug/L	MW-9	09/28/2021	ND	4.0000		
Selenium, total	ug/L	MW-9	03/08/2022	ND	4.0000		
Selenium, total	ug/L	MW-9	08/30/2022	ND	4.0000		
Selenium, total	ug/L	MW-9	03/07/2023	ND	4.0000		
Selenium, total	ug/L	MW-9	09/11/2023	ND	4.0000		
Silver, total	ug/L	MW-9	10/16/2014	ND	4.0000		
Silver, total	ug/L	MW-9	04/04/2015	ND	4.0000		
Silver, total	ug/L	MW-9	10/01/2015	ND	4.0000		
Silver, total	ug/L	MW-9	04/04/2016	ND	4.0000		
Silver, total	ug/L	MW-9	09/20/2016	ND	4.0000		
Silver, total	ug/L	MW-9	04/24/2017	ND	4.0000		
Silver, total	ug/L	MW-9	10/09/2017	ND	4.0000		
Silver, total	ug/L	MW-9	03/21/2018	ND	4.0000		
Silver, total	ug/L	MW-9	09/07/2018	ND	4.0000		
Silver, total	ug/L	MW-9	04/02/2019	ND	4.0000		
Silver, total	ug/L	MW-9	09/18/2019	ND	4.0000		
Silver, total	ug/L	MW-9	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-9	09/15/2020	ND	4.0000		
Silver, total	ug/L	MW-9	03/08/2021	ND	4.0000		
Silver, total	ug/L	MW-9	09/28/2021	ND	4.0000		
Silver, total	ug/L	MW-9	03/08/2022	ND	4.0000		
Silver, total	ug/L	MW-9	08/30/2022	ND	4.0000		
Silver, total	ug/L	MW-9	03/07/2023	ND	4.0000		
Silver, total	ug/L	MW-9	09/11/2023	ND	4.0000		
Thallium, total	ug/L	MW-9	10/16/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	04/04/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	10/01/2015	ND	1.0000	2.0000	**
Thallium, total	ug/L	MW-9	04/04/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	09/20/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	04/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	10/09/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	03/21/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	09/07/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-9	04/02/2019	ND	2.0000		
Thallium, total	ug/L	MW-9	09/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-9	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-9	09/15/2020	ND	2.0000		
Thallium, total	ug/L	MW-9	03/08/2021	ND	2.0000		
Thallium, total	ug/L	MW-9	09/28/2021	ND	2.0000		
Thallium, total	ug/L	MW-9	03/08/2022	ND	2.0000		
Thallium, total	ug/L	MW-9	08/30/2022	ND	2.0000		
Thallium, total	ug/L	MW-9	03/07/2023	ND	2.0000		
Thallium, total	ug/L	MW-9	09/11/2023	ND	2.0000		
Vanadium, total	ug/L	MW-9	10/16/2014	ND	20.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Vanadium, total	ug/L	MW-9	04/04/2015	ND	20.0000		
Vanadium, total	ug/L	MW-9	10/01/2015	ND	20.0000		
Vanadium, total	ug/L	MW-9	04/04/2016	ND	20.0000		
Vanadium, total	ug/L	MW-9	09/20/2016	ND	20.0000		
Vanadium, total	ug/L	MW-9	04/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-9	10/09/2017	ND	20.0000		
Vanadium, total	ug/L	MW-9	03/21/2018	ND	20.0000		
Vanadium, total	ug/L	MW-9	09/07/2018	ND	20.0000		
Vanadium, total	ug/L	MW-9	04/02/2019	ND	20.0000		
Vanadium, total	ug/L	MW-9	09/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-9	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-9	09/15/2020	ND	20.0000		
Vanadium, total	ug/L	MW-9	03/08/2021	ND	20.0000		
Vanadium, total	ug/L	MW-9	09/28/2021	ND	20.0000		
Vanadium, total	ug/L	MW-9	03/08/2022	ND	20.0000		
Vanadium, total	ug/L	MW-9	08/30/2022	ND	20.0000		
Vanadium, total	ug/L	MW-9	03/07/2023	ND	20.0000		
Vanadium, total	ug/L	MW-9	09/11/2023	ND	20.0000		
Zinc, total	ug/L	MW-9	10/16/2014	ND	20.0000		
Zinc, total	ug/L	MW-9	04/04/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-9	10/01/2015		9.8000		
Zinc, total	ug/L	MW-9	04/04/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-9	09/20/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-9	04/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-9	10/09/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-9	03/21/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-9	09/07/2018		73.9000		*
Zinc, total	ug/L	MW-9	04/02/2019	ND	20.0000		
Zinc, total	ug/L	MW-9	09/18/2019		27.7000		
Zinc, total	ug/L	MW-9	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-9	09/15/2020	ND	20.0000		
Zinc, total	ug/L	MW-9	03/08/2021	ND	20.0000		
Zinc, total	ug/L	MW-9	09/28/2021	ND	20.0000		
Zinc, total	ug/L	MW-9	03/08/2022	ND	20.0000		
Zinc, total	ug/L	MW-9	08/30/2022	ND	20.0000		
Zinc, total	ug/L	MW-9	03/07/2023	ND	20.0000		
Zinc, total	ug/L	MW-9	09/11/2023	ND	20.0000		

* - Outlier for that well and constituent.
 ** - ND value replaced with median RL.
 *** - ND value replaced with manual RL.
 ND = Not detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result	Pred. Limit
Antimony, total	ug/L	MW-12	09/11/2023	ND	2.0000	2.0000
Arsenic, total	ug/L	MW-12	09/11/2023		8.7000	167.0000
Barium, total	ug/L	MW-12	09/11/2023		285.0000	1305.6261
Beryllium, total	ug/L	MW-12	09/11/2023	ND	4.0000	4.0000
Cadmium, total	ug/L	MW-12	09/11/2023	ND	0.8000	2.4000
Chromium, total	ug/L	MW-12	09/11/2023	ND	8.0000	11.6000
Cobalt, total	ug/L	MW-12	09/11/2023		1.8000	38.3120
Copper, total	ug/L	MW-12	09/11/2023	ND	4.0000	10.0000
Lead, total	ug/L	MW-12	09/11/2023	ND	4.0000	6.8000
Nickel, total	ug/L	MW-12	09/11/2023		4.1000	22.3381
Selenium, total	ug/L	MW-12	09/11/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-12	09/11/2023	ND	4.0000	4.0000
Thallium, total	ug/L	MW-12	09/11/2023	ND	2.0000	2.3000
Vanadium, total	ug/L	MW-12	09/11/2023	ND	20.0000	31.6000
Zinc, total	ug/L	MW-12	09/11/2023	ND	20.0000	267.0000
Antimony, total	ug/L	MW-15R	09/11/2023	ND	2.0000	2.0000
Arsenic, total	ug/L	MW-15R	09/11/2023		20.1000	167.0000
Barium, total	ug/L	MW-15R	09/11/2023		354.0000	1305.6261
Beryllium, total	ug/L	MW-15R	09/11/2023	ND	4.0000	4.0000
Cadmium, total	ug/L	MW-15R	09/11/2023	ND	0.8000	2.4000
Chromium, total	ug/L	MW-15R	09/11/2023	ND	8.0000	11.6000
Cobalt, total	ug/L	MW-15R	09/11/2023		3.8000	38.3120
Copper, total	ug/L	MW-15R	09/11/2023	ND	4.0000	10.0000
Lead, total	ug/L	MW-15R	09/11/2023	ND	4.0000	6.8000
Nickel, total	ug/L	MW-15R	09/11/2023		4.2000	22.3381
Selenium, total	ug/L	MW-15R	09/11/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-15R	09/11/2023	ND	4.0000	4.0000
Thallium, total	ug/L	MW-15R	09/11/2023	ND	2.0000	2.3000
Vanadium, total	ug/L	MW-15R	09/11/2023	ND	20.0000	31.6000
Zinc, total	ug/L	MW-15R	09/11/2023	ND	20.0000	267.0000
Antimony, total	ug/L	MW-20R	09/11/2023	ND	2.0000	2.0000
Arsenic, total	ug/L	MW-20R	09/11/2023		41.8000	167.0000
Barium, total	ug/L	MW-20R	09/11/2023		650.0000	1305.6261
Beryllium, total	ug/L	MW-20R	09/11/2023	ND	4.0000	4.0000
Cadmium, total	ug/L	MW-20R	09/11/2023	ND	0.8000	2.4000
Chromium, total	ug/L	MW-20R	09/11/2023	ND	8.0000	11.6000
Cobalt, total	ug/L	MW-20R	09/11/2023		0.4000	38.3120
Copper, total	ug/L	MW-20R	09/11/2023	ND	4.0000	10.0000
Lead, total	ug/L	MW-20R	09/11/2023	ND	4.0000	6.8000
Nickel, total	ug/L	MW-20R	09/11/2023	ND	4.0000	22.3381
Selenium, total	ug/L	MW-20R	09/11/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-20R	09/11/2023	ND	4.0000	4.0000
Thallium, total	ug/L	MW-20R	09/11/2023	ND	2.0000	2.3000
Vanadium, total	ug/L	MW-20R	09/11/2023	ND	20.0000	31.6000
Zinc, total	ug/L	MW-20R	09/11/2023	ND	20.0000	267.0000
Antimony, total	ug/L	MW-21	09/11/2023	ND	2.0000	2.0000
Arsenic, total	ug/L	MW-21	09/11/2023	ND	4.0000	167.0000
Barium, total	ug/L	MW-21	09/11/2023		465.0000	1305.6261
Beryllium, total	ug/L	MW-21	09/11/2023	ND	4.0000	4.0000
Cadmium, total	ug/L	MW-21	09/11/2023	ND	0.8000	2.4000
Chromium, total	ug/L	MW-21	09/11/2023	ND	8.0000	11.6000
Cobalt, total	ug/L	MW-21	09/11/2023		0.4000	38.3120
Copper, total	ug/L	MW-21	09/11/2023	ND	4.0000	10.0000
Lead, total	ug/L	MW-21	09/11/2023	ND	4.0000	6.8000
Nickel, total	ug/L	MW-21	09/11/2023		5.3000	22.3381
Selenium, total	ug/L	MW-21	09/11/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-21	09/11/2023	ND	4.0000	4.0000
Thallium, total	ug/L	MW-21	09/11/2023	ND	2.0000	2.3000
Vanadium, total	ug/L	MW-21	09/11/2023	ND	20.0000	31.6000
Zinc, total	ug/L	MW-21	09/11/2023	ND	20.0000	267.0000
Antimony, total	ug/L	MW-4	09/11/2023	ND	2.0000	2.0000
Arsenic, total	ug/L	MW-4	09/11/2023		60.7000	167.0000
Barium, total	ug/L	MW-4	09/11/2023		1010.0000	1305.6261
Beryllium, total	ug/L	MW-4	09/11/2023	ND	4.0000	4.0000
Cadmium, total	ug/L	MW-4	09/11/2023		1.8000	2.4000
Chromium, total	ug/L	MW-4	09/11/2023		33.9000	11.6000
Cobalt, total	ug/L	MW-4	09/11/2023		10.9000	38.3120
Copper, total	ug/L	MW-4	09/11/2023		8.7000	10.0000
Lead, total	ug/L	MW-4	09/11/2023	ND	4.0000	6.8000
Nickel, total	ug/L	MW-4	09/11/2023		52.8000	22.3381
Selenium, total	ug/L	MW-4	09/11/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-4	09/11/2023	ND	4.0000	4.0000

* - Current value failed - awaiting verification.
 ** - Current value passed - previous exceedance not verified.
 *** - Current value failed - exceedance verified.
 **** - Current value passed - awaiting one more verification.
 ***** - Insufficient background data to compute prediction limit.
 ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result	Pred. Limit
Thallium, total	ug/L	MW-4	09/11/2023	ND	2.0000	2.3000
Vanadium, total	ug/L	MW-4	09/11/2023	ND	20.0000	31.6000
Zinc, total	ug/L	MW-4	09/11/2023		75.7000	267.0000
Antimony, total	ug/L	MW-5	09/11/2023	ND	2.0000	2.0000
Arsenic, total	ug/L	MW-5	09/11/2023		71.1000	167.0000
Barium, total	ug/L	MW-5	09/11/2023		302.0000	1305.6261
Beryllium, total	ug/L	MW-5	09/11/2023	ND	4.0000	4.0000
Cadmium, total	ug/L	MW-5	09/11/2023	ND	0.8000	2.4000
Chromium, total	ug/L	MW-5	09/11/2023	ND	8.0000	11.6000
Cobalt, total	ug/L	MW-5	09/11/2023		2.7000	38.3120
Copper, total	ug/L	MW-5	09/11/2023		9.6000	10.0000
Lead, total	ug/L	MW-5	09/11/2023	ND	4.0000	6.8000
Nickel, total	ug/L	MW-5	09/11/2023	ND	4.0000	22.3381
Selenium, total	ug/L	MW-5	09/11/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-5	09/11/2023	ND	4.0000	4.0000
Thallium, total	ug/L	MW-5	09/11/2023	ND	2.0000	2.3000
Vanadium, total	ug/L	MW-5	09/11/2023	ND	20.0000	31.6000
Zinc, total	ug/L	MW-5	09/11/2023	ND	20.0000	267.0000

- * - 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	Upgradient			Downgradient		
	Detect	N	Proportion	Detect	N	Proportion
Antimony, total	0	101	0.000	2	200	0.010
Arsenic, total	46	100	0.460	169	200	0.845
Barium, total	101	101	1.000	200	200	1.000
Beryllium, total	0	101	0.000	1	200	0.005
Cadmium, total	16	99	0.162	27	200	0.135
Chromium, total	2	99	0.020	11	200	0.055
Cobalt, total	78	96	0.813	153	200	0.765
Copper, total	12	95	0.126	72	201	0.358
Lead, total	2	97	0.021	31	200	0.155
Nickel, total	75	97	0.773	149	202	0.738
Selenium, total	0	100	0.000	3	200	0.015
Silver, total	0	101	0.000	0	200	0.000
Thallium, total	2	101	0.020	2	200	0.010
Vanadium, total	1	100	0.010	17	200	0.085
Zinc, total	23	100	0.230	91	200	0.455

N = Total number of measurements in all wells.
 Detect = Total number of detections in all wells.
 Proportion = Detect/N.

Table 4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Antimony, total	0	101	0.000									nonpar
Arsenic, total	46	100	0.460	2.193	2.082					2.326	normal	nonpar
Barium, total	101	101	1.000	1.951	0.932					2.326	normal	normal
Beryllium, total	0	101	0.000									nonpar
Cadmium, total	16	99	0.162	0.626	0.870					2.326	normal	nonpar
Chromium, total	2	99	0.020									nonpar
Cobalt, total	78	96	0.813	3.855	0.607					2.326	lognor	lognor
Copper, total	12	95	0.126	1.035	0.667					2.326	normal	nonpar
Lead, total	2	97	0.021									nonpar
Nickel, total	75	97	0.773	1.683	0.601					2.326	normal	normal
Selenium, total	0	100	0.000									nonpar
Silver, total	0	101	0.000									nonpar
Thallium, total	2	101	0.020									nonpar
Vanadium, total	1	100	0.010									nonpar
Zinc, total	23	100	0.230	1.041	0.610					2.326	normal	nonpar

* - Distribution override for that constituent.
 Fit to distribution is confirmed if G <= critical value.
 Model type may not match distributional form when detection frequency < 50%.

Table 5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Antimony, total	ug/L	0	101					2.0000	nonpar	***	0.99
Arsenic, total	ug/L	46	100					167.0000	nonpar		0.99
Barium, total	ug/L	101	101	431.8099	367.7854	0.0100	2.3759	1305.6261	normal		
Beryllium, total	ug/L	0	101					4.0000	nonpar	***	0.99
Cadmium, total	ug/L	16	99					2.4000	nonpar		0.99
Chromium, total	ug/L	2	99					11.6000	nonpar		0.99
Cobalt, total	ug/L	78	96	1.1707	1.0406	0.0100	2.3785	38.3120	lognor		
Copper, total	ug/L	12	95					10.0000	nonpar		0.99
Lead, total	ug/L	2	97					6.8000	nonpar		0.99
Nickel, total	ug/L	75	97	8.1258	5.9767	0.0100	2.3780	22.3381	normal		
Selenium, total	ug/L	0	100					4.0000	nonpar	***	0.99
Silver, total	ug/L	0	101					4.0000	nonpar	***	0.99
Thallium, total	ug/L	2	101					2.3000	nonpar		0.99
Vanadium, total	ug/L	1	100					31.6000	nonpar		0.99
Zinc, total	ug/L	23	100					267.0000	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
Cobalt, total	ug/L	MW-17	09/11/2023	0.6000		10/16/2014-09/11/2023	17	0.5798
Cadmium, total	ug/L	MW-18	04/04/2015	3.9000		10/16/2014-09/11/2023	19	0.5503
Copper, total	ug/L	MW-18	10/16/2014	31.3000		10/16/2014-09/11/2023	18	0.5798
Copper, total	ug/L	MW-18	09/20/2016	16.0000		10/16/2014-09/11/2023	18	0.5798
Lead, total	ug/L	MW-18	10/16/2014	12.4000		10/16/2014-09/11/2023	18	0.5643
Cadmium, total	ug/L	MW-19A	09/11/2023	9.0000		10/16/2014-09/11/2023	19	0.5503
Lead, total	ug/L	MW-2	04/02/2019	13.6000		04/04/2015-03/25/2020	6	0.6987
Nickel, total	ug/L	MW-24	04/04/2015	25.1000		10/16/2014-09/11/2023	18	0.5798
Nickel, total	ug/L	MW-24	03/21/2018	20.0000	< 20.0000	10/16/2014-09/11/2023	18	0.5798
Copper, total	ug/L	MW-9	04/04/2015	26.3000		10/16/2014-09/11/2023	20	0.5503
Copper, total	ug/L	MW-9	03/21/2018	18.0000		10/16/2014-09/11/2023	20	0.5503
Zinc, total	ug/L	MW-9	09/07/2018	73.9000		10/16/2014-09/11/2023	19	0.5503

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, total	ug/L	MW-21	11/06/2009		240.0000	1305.6261
Barium, total	ug/L	MW-21	04/05/2010		390.0000	1305.6261
Barium, total	ug/L	MW-21	05/24/2010		316.0000	1305.6261
Barium, total	ug/L	MW-21	08/16/2010		268.0000	1305.6261
Barium, total	ug/L	MW-21	10/08/2010		261.0000	1305.6261
Barium, total	ug/L	MW-21	04/14/2011		396.0000	1305.6261
Barium, total	ug/L	MW-21	09/21/2011		310.0000	1305.6261
Barium, total	ug/L	MW-21	04/09/2012		424.0000	1305.6261
Barium, total	ug/L	MW-21	09/05/2012		420.0000	1305.6261
Barium, total	ug/L	MW-21	04/26/2013		274.0000	1305.6261
Barium, total	ug/L	MW-21	09/26/2013		281.0000	1305.6261
Barium, total	ug/L	MW-21	04/10/2014		288.0000	1305.6261
Barium, total	ug/L	MW-21	10/16/2014		354.0000	1305.6261
Barium, total	ug/L	MW-21	04/04/2015		461.0000	1305.6261
Barium, total	ug/L	MW-21	10/01/2015		451.0000	1305.6261
Barium, total	ug/L	MW-21	04/04/2016		392.0000	1305.6261
Barium, total	ug/L	MW-21	09/20/2016		630.0000	1305.6261
Barium, total	ug/L	MW-21	04/24/2017		806.0000	1305.6261
Barium, total	ug/L	MW-21	10/09/2017		472.0000	1305.6261
Barium, total	ug/L	MW-21	03/21/2018		875.0000	1305.6261
Barium, total	ug/L	MW-21	09/07/2018		598.0000	1305.6261
Barium, total	ug/L	MW-21	04/02/2019		1420.0000	* 1305.6261
Barium, total	ug/L	MW-21	09/18/2019		307.0000	1305.6261
Barium, total	ug/L	MW-21	03/25/2020		1730.0000	* 1305.6261
Barium, total	ug/L	MW-21	09/15/2020		469.0000	1305.6261
Barium, total	ug/L	MW-21	03/08/2021		1020.0000	1305.6261
Barium, total	ug/L	MW-21	09/28/2021		498.0000	1305.6261
Barium, total	ug/L	MW-21	03/08/2022		803.0000	1305.6261
Barium, total	ug/L	MW-21	08/30/2022		450.0000	1305.6261
Barium, total	ug/L	MW-21	03/07/2023		1420.0000	* 1305.6261
Barium, total	ug/L	MW-21	09/11/2023		465.0000	1305.6261
Chromium, total	ug/L	MW-4	04/23/2008	ND	5.0000	11.6000
Chromium, total	ug/L	MW-4	06/23/2008	ND	5.0000	11.6000
Chromium, total	ug/L	MW-4	08/13/2008	ND	5.0000	11.6000
Chromium, total	ug/L	MW-4	10/02/2008	ND	1.0000	11.6000
Chromium, total	ug/L	MW-4	12/13/2008	ND	10.0000	11.6000
Chromium, total	ug/L	MW-4	03/04/2009	ND	10.0000	11.6000
Chromium, total	ug/L	MW-4	09/17/2009	ND	10.0000	11.6000
Chromium, total	ug/L	MW-4	11/06/2009	ND	10.0000	11.6000
Chromium, total	ug/L	MW-4	04/05/2010	ND	10.0000	11.6000
Chromium, total	ug/L	MW-4	10/08/2010	ND	10.0000	11.6000
Chromium, total	ug/L	MW-4	04/13/2011	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	09/22/2011	ND	20.0000	11.6000
Chromium, total	ug/L	MW-4	04/09/2012	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	09/05/2012	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	04/26/2013	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	04/10/2014	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	10/16/2014	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	04/04/2015	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	10/01/2015	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	04/04/2016	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	09/20/2016	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	04/24/2017	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	10/09/2017	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	03/21/2018	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	09/07/2018	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	04/02/2019	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	09/18/2019	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	03/25/2020	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	09/15/2020	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	03/08/2021	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	09/28/2021	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	03/08/2022	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	08/30/2022	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	03/07/2023	ND	8.0000	11.6000
Chromium, total	ug/L	MW-4	09/11/2023		33.9000	* 11.6000
Nickel, total	ug/L	MW-4	04/23/2008		15.0000	22.3381
Nickel, total	ug/L	MW-4	06/23/2008		12.0000	22.3381
Nickel, total	ug/L	MW-4	08/13/2008		6.0000	22.3381
Nickel, total	ug/L	MW-4	10/02/2008		11.1000	22.3381
Nickel, total	ug/L	MW-4	12/13/2008		10.4000	22.3381

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

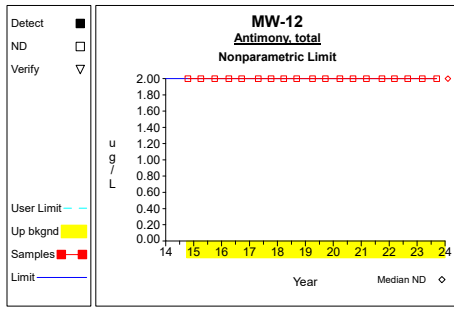
Table 8

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

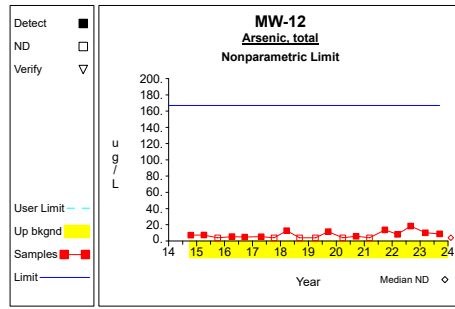
Constituent	Units	Well	Date		Result	Pred. Limit
Nickel, total	ug/L	MW-4	03/04/2009		9.7000	22.3381
Nickel, total	ug/L	MW-4	09/17/2009		31.0000	22.3381 *
Nickel, total	ug/L	MW-4	11/06/2009		17.5000	22.3381
Nickel, total	ug/L	MW-4	04/05/2010		22.0000	22.3381
Nickel, total	ug/L	MW-4	10/08/2010		14.2000	22.3381
Nickel, total	ug/L	MW-4	04/13/2011		19.8000	22.3381
Nickel, total	ug/L	MW-4	09/22/2011		25.0000	22.3381 *
Nickel, total	ug/L	MW-4	04/09/2012		14.5000	22.3381
Nickel, total	ug/L	MW-4	09/05/2012		23.6000	22.3381 *
Nickel, total	ug/L	MW-4	04/26/2013		13.1000	22.3381
Nickel, total	ug/L	MW-4	04/10/2014		21.6000	22.3381
Nickel, total	ug/L	MW-4	10/16/2014		11.3000	22.3381
Nickel, total	ug/L	MW-4	04/04/2015		7.3000	22.3381
Nickel, total	ug/L	MW-4	10/01/2015	ND	4.0000	22.3381
Nickel, total	ug/L	MW-4	04/04/2016		7.5000	22.3381
Nickel, total	ug/L	MW-4	09/20/2016	ND	4.0000	22.3381
Nickel, total	ug/L	MW-4	04/24/2017	ND	4.0000	22.3381
Nickel, total	ug/L	MW-4	10/09/2017	ND	4.0000	22.3381
Nickel, total	ug/L	MW-4	03/21/2018	ND	4.0000	22.3381
Nickel, total	ug/L	MW-4	09/07/2018	ND	4.0000	22.3381
Nickel, total	ug/L	MW-4	04/02/2019	ND	4.0000	22.3381
Nickel, total	ug/L	MW-4	09/18/2019	ND	4.0000	22.3381
Nickel, total	ug/L	MW-4	03/25/2020	ND	4.0000	22.3381
Nickel, total	ug/L	MW-4	09/15/2020	ND	4.0000	22.3381
Nickel, total	ug/L	MW-4	03/08/2021	ND	4.0000	22.3381
Nickel, total	ug/L	MW-4	09/28/2021		26.4000	22.3381 *
Nickel, total	ug/L	MW-4	12/03/2021		5.2000	22.3381
Nickel, total	ug/L	MW-4	03/08/2022		4.5000	22.3381
Nickel, total	ug/L	MW-4	08/30/2022		4.6000	22.3381
Nickel, total	ug/L	MW-4	03/07/2023	ND	4.0000	22.3381
Nickel, total	ug/L	MW-4	09/11/2023		52.8000	22.3381 *

* - Significantly increased over background.
 ** - Detect at limit for 100% NDs in background (NPPL only).
 *** - Manual exclusion.
 ND = Not Detected, Result = detection limit.

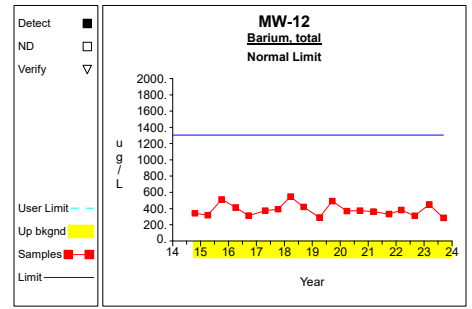
Up vs. Down Prediction Limits



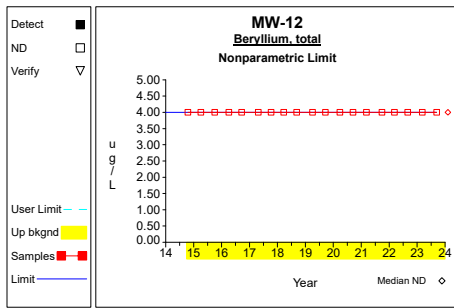
Graph 1



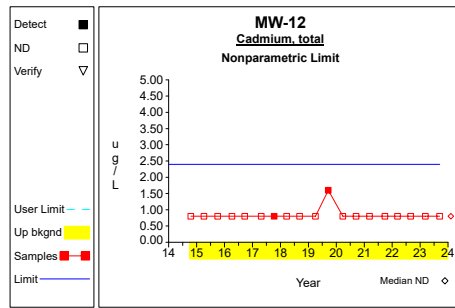
Graph 2



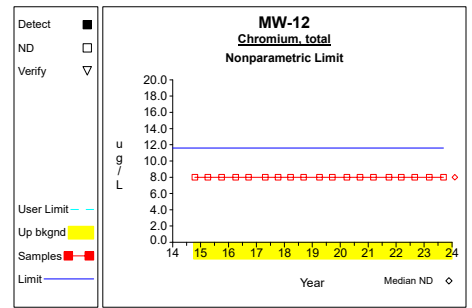
Graph 3



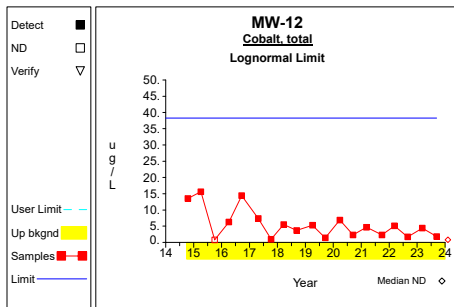
Graph 4



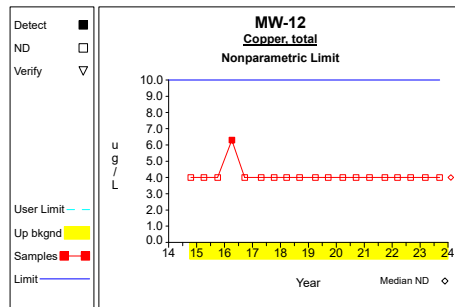
Graph 5



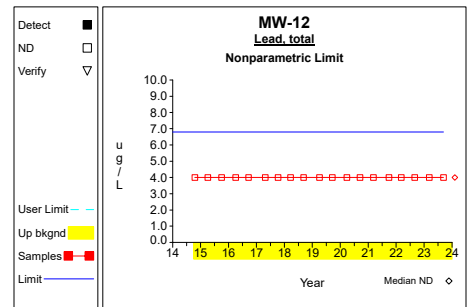
Graph 6



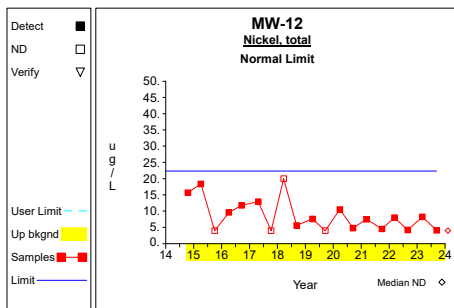
Graph 7



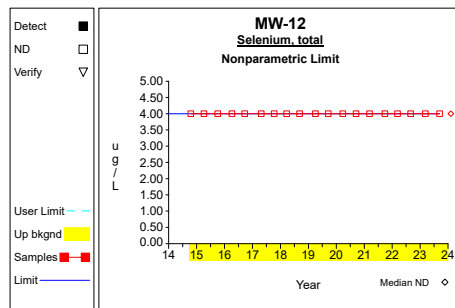
Graph 8



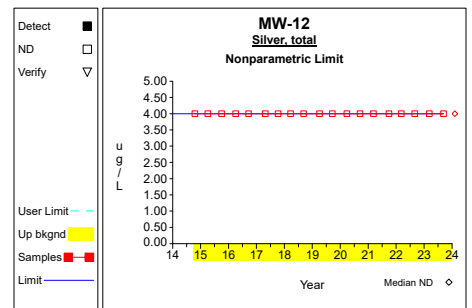
Graph 9



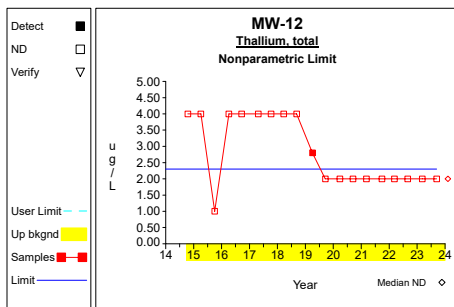
Graph 10



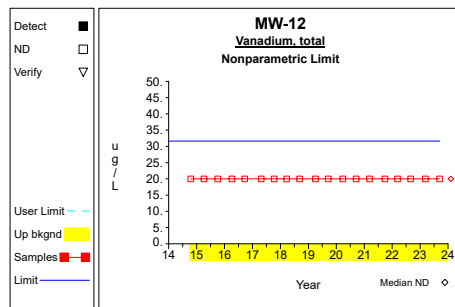
Graph 11



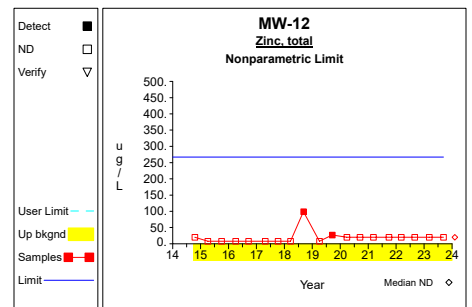
Graph 12



Graph 13

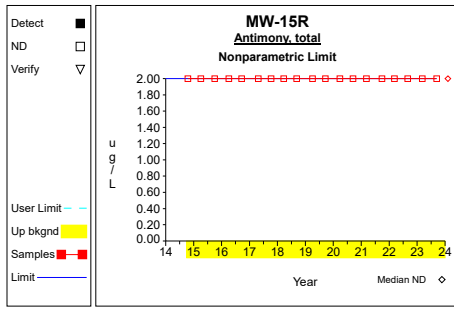


Graph 14

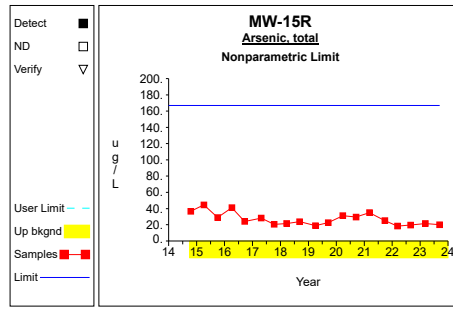


Graph 15

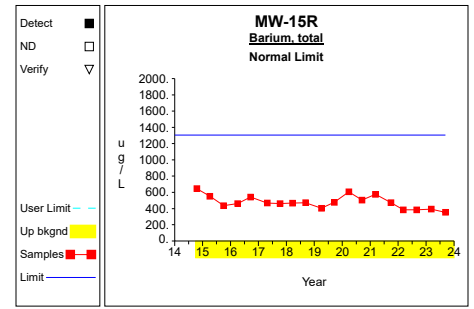
Up vs. Down Prediction Limits



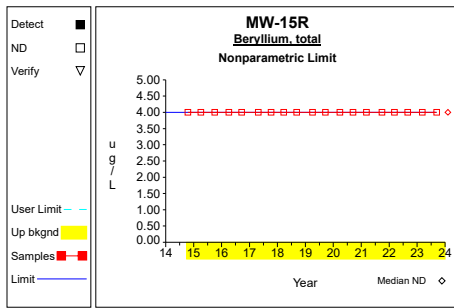
Graph 16



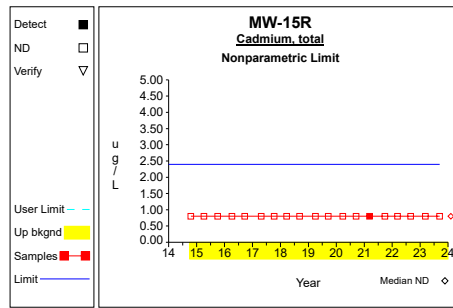
Graph 17



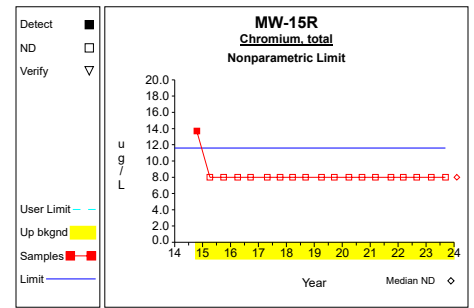
Graph 18



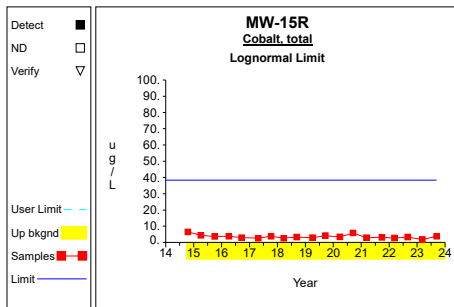
Graph 19



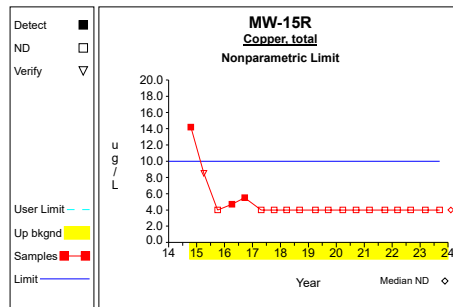
Graph 20



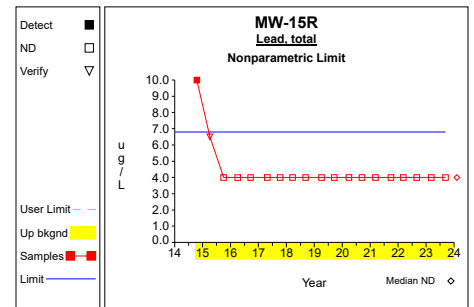
Graph 21



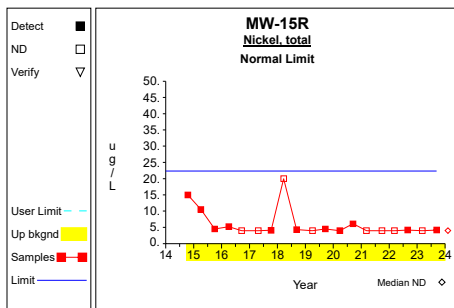
Graph 22



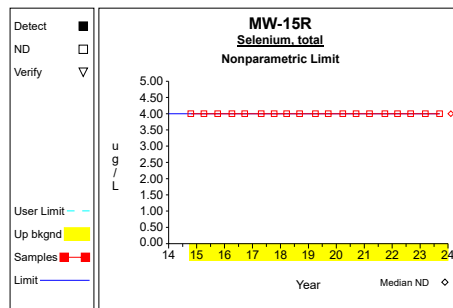
Graph 23



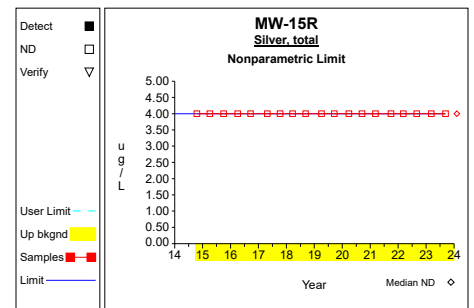
Graph 24



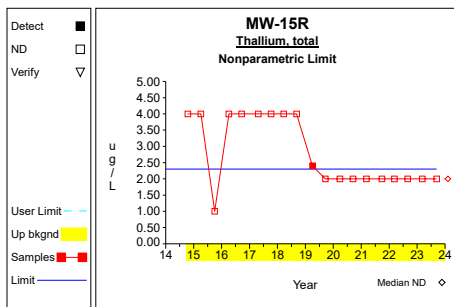
Graph 25



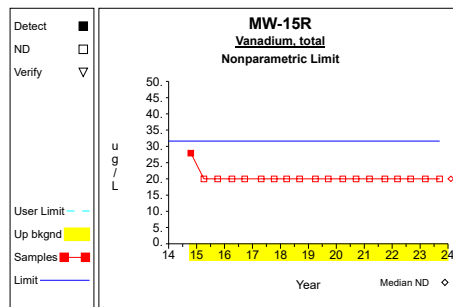
Graph 26



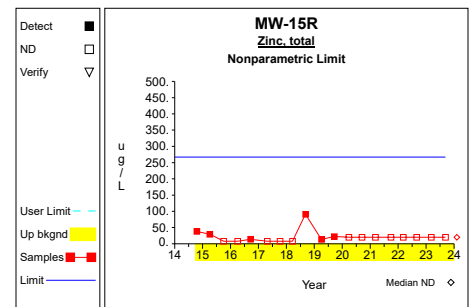
Graph 27



Graph 28

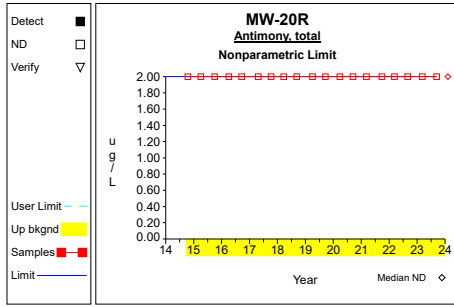


Graph 29

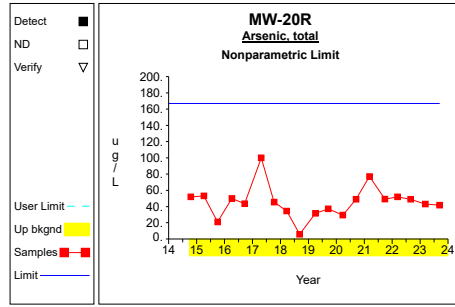


Graph 30

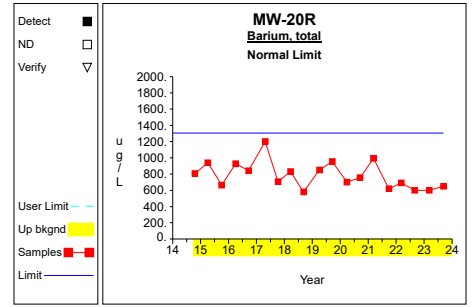
Up vs. Down Prediction Limits



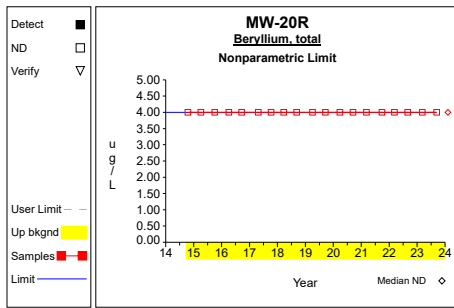
Graph 31



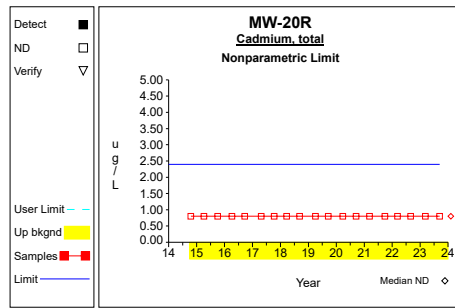
Graph 32



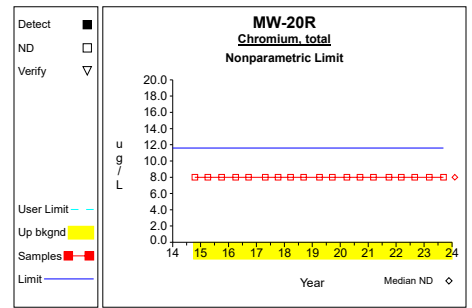
Graph 33



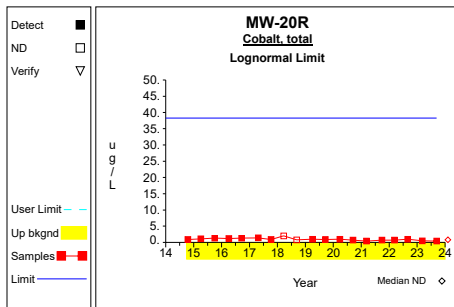
Graph 34



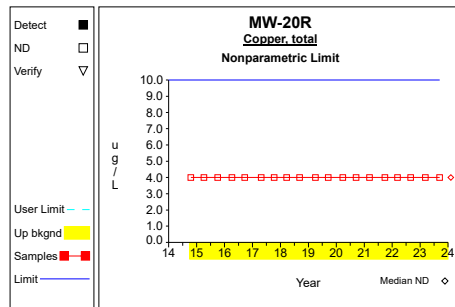
Graph 35



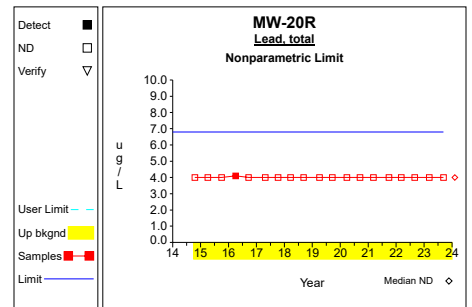
Graph 36



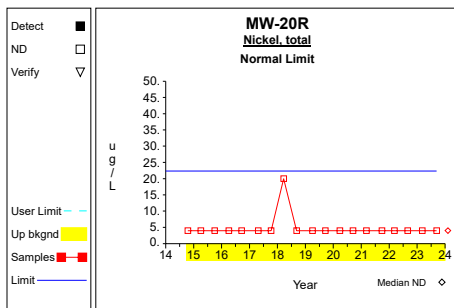
Graph 37



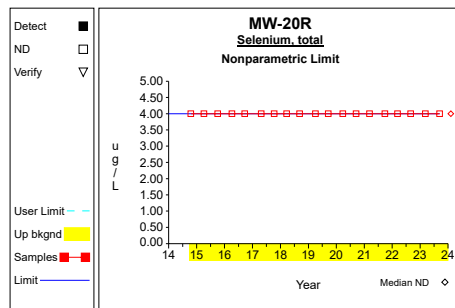
Graph 38



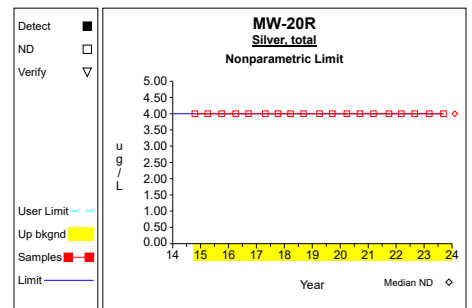
Graph 39



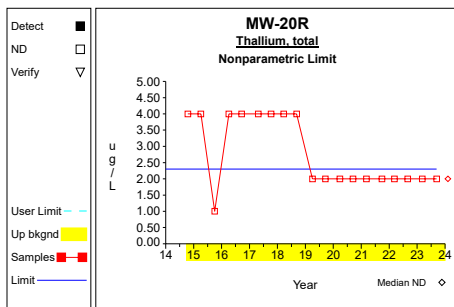
Graph 40



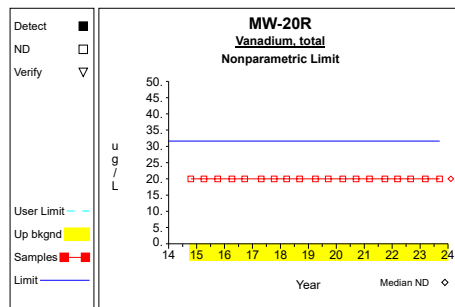
Graph 41



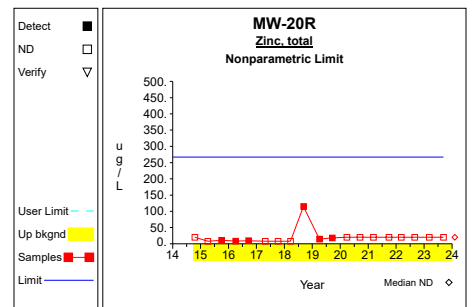
Graph 42



Graph 43

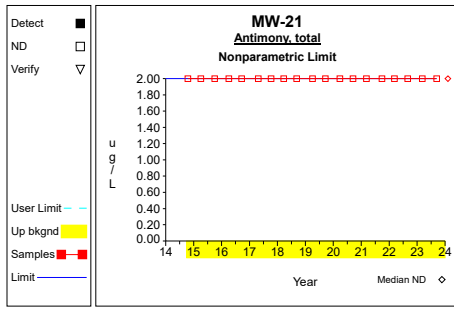


Graph 44

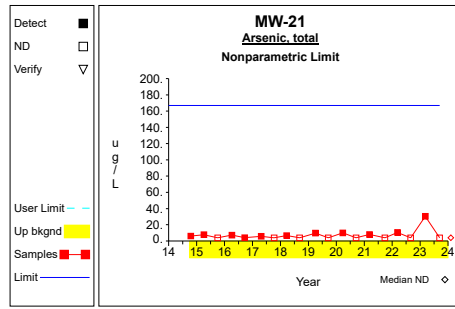


Graph 45

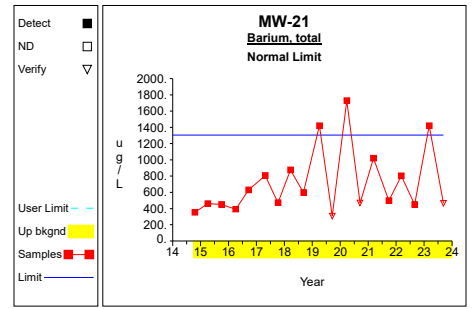
Up vs. Down Prediction Limits



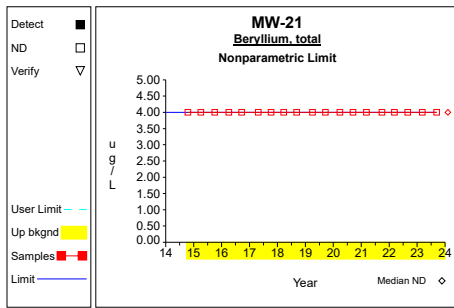
Graph 46



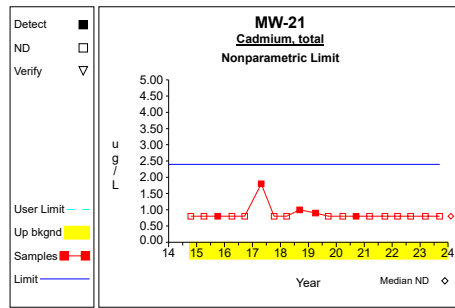
Graph 47



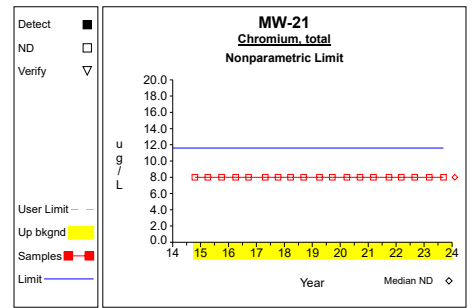
Graph 48



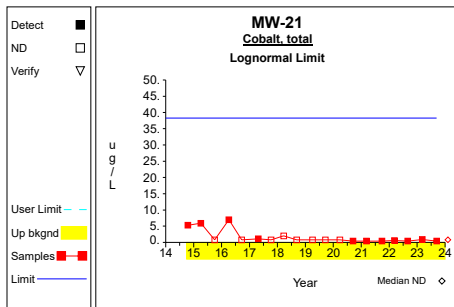
Graph 49



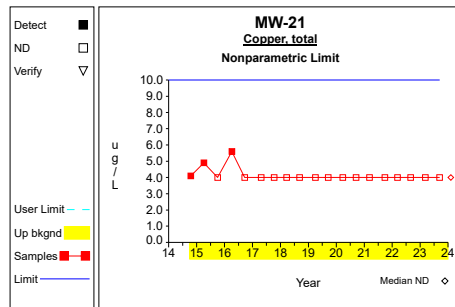
Graph 50



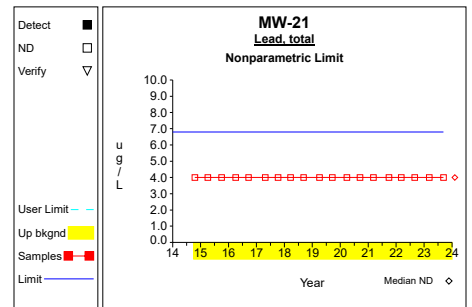
Graph 51



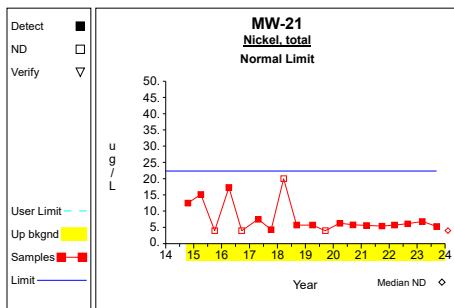
Graph 52



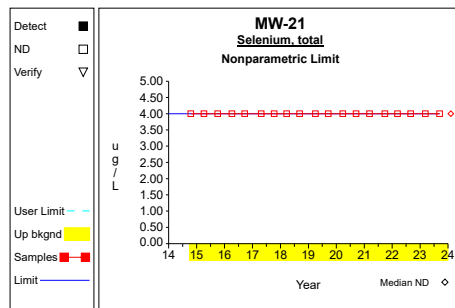
Graph 53



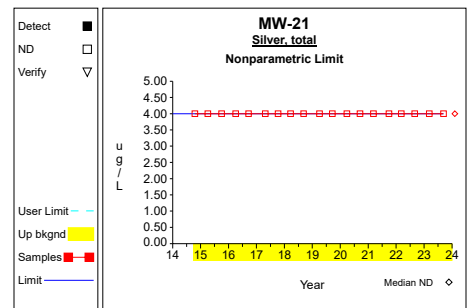
Graph 54



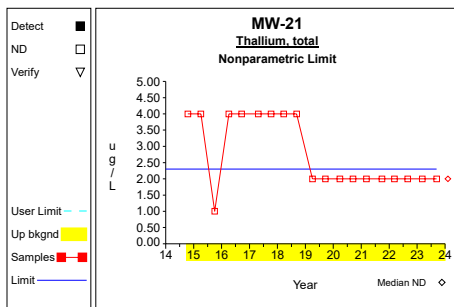
Graph 55



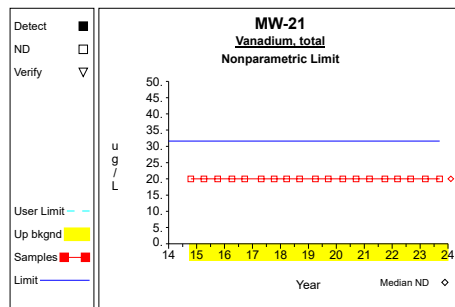
Graph 56



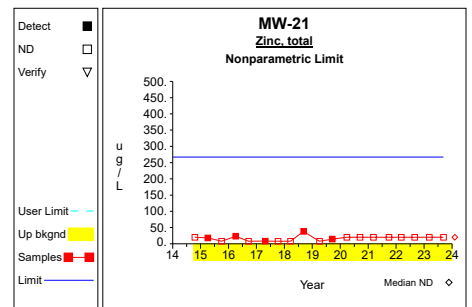
Graph 57



Graph 58

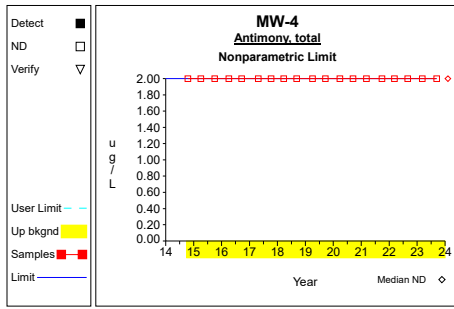


Graph 59

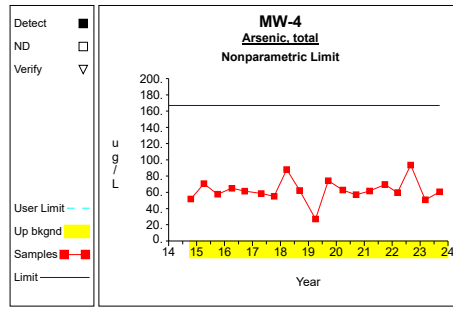


Graph 60

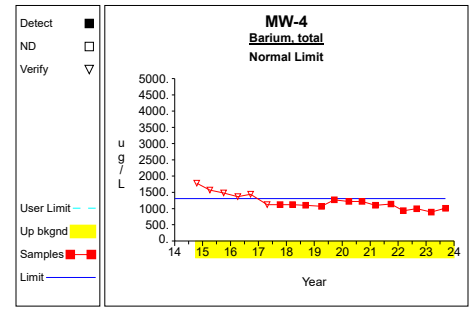
Up vs. Down Prediction Limits



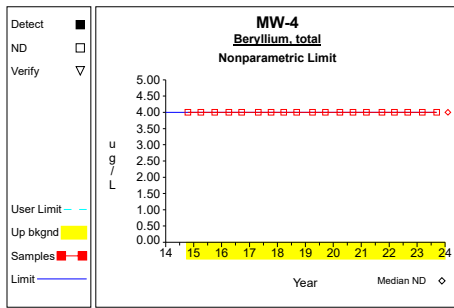
Graph 61



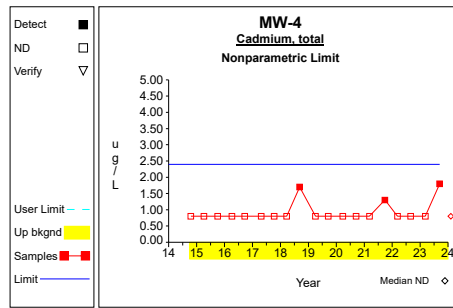
Graph 62



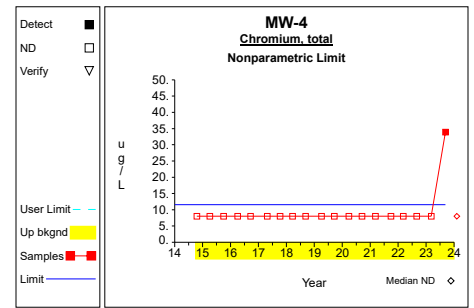
Graph 63



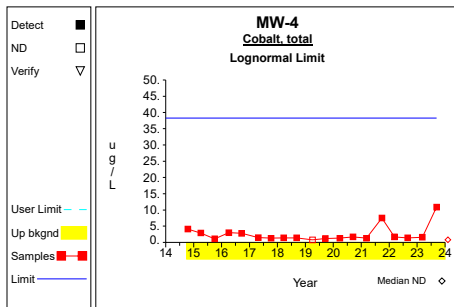
Graph 64



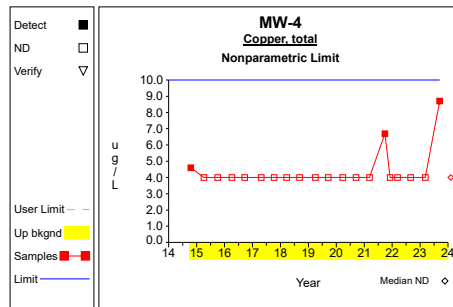
Graph 65



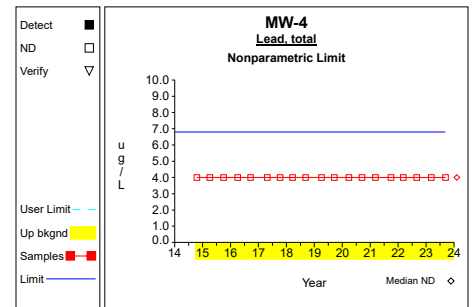
Graph 66



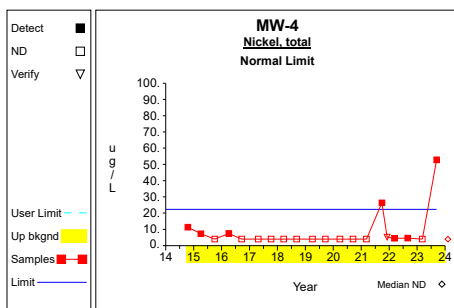
Graph 67



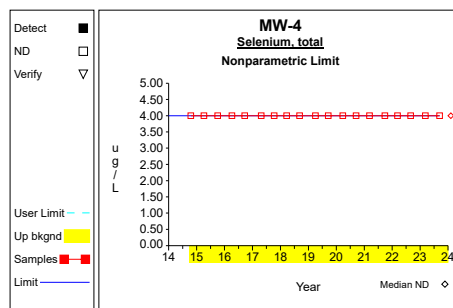
Graph 68



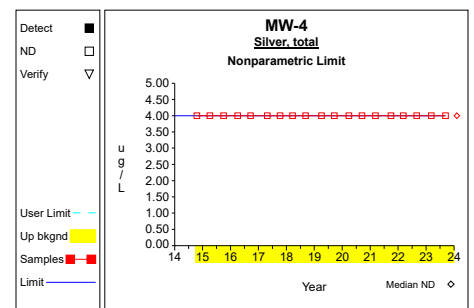
Graph 69



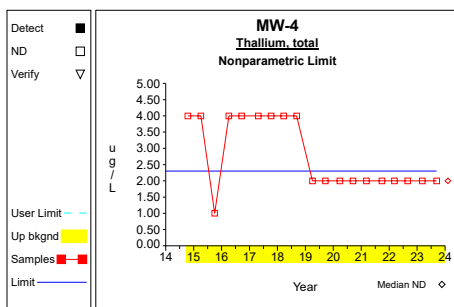
Graph 70



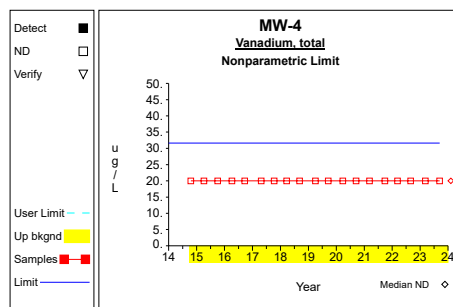
Graph 71



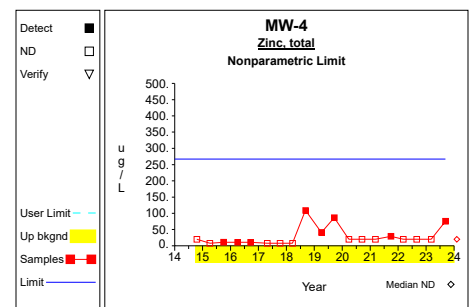
Graph 72



Graph 73

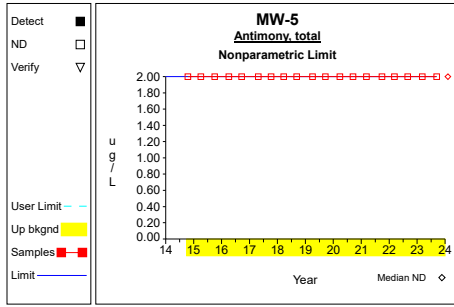


Graph 74

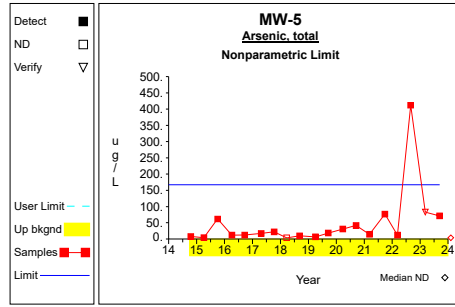


Graph 75

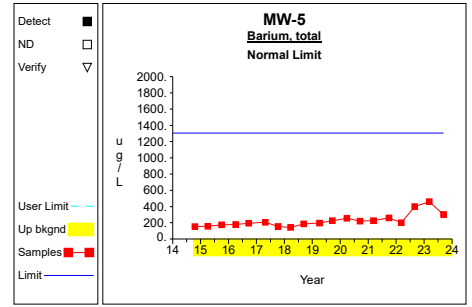
Up vs. Down Prediction Limits



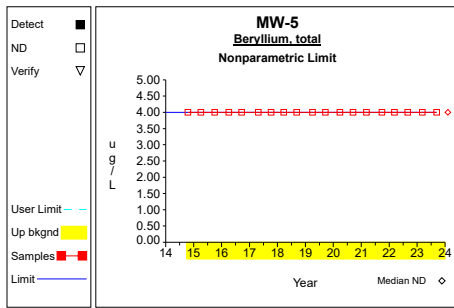
Graph 76



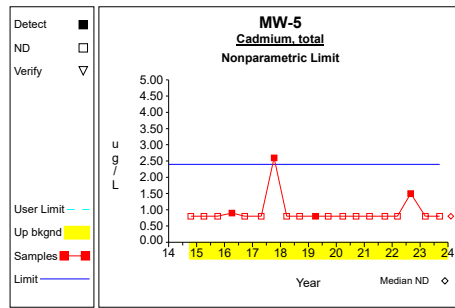
Graph 77



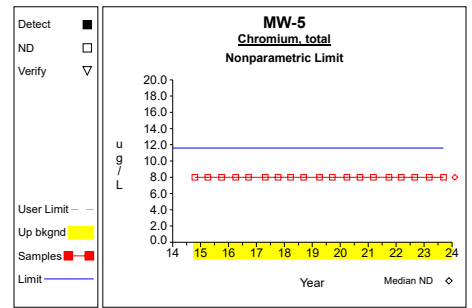
Graph 78



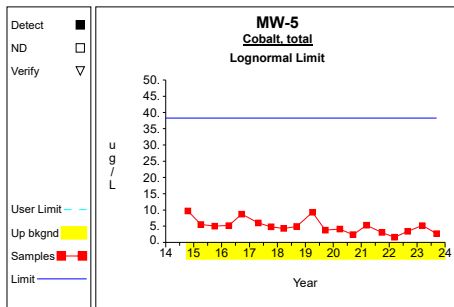
Graph 79



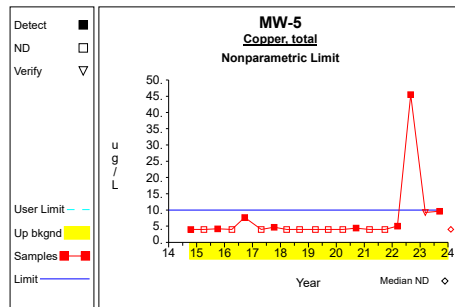
Graph 80



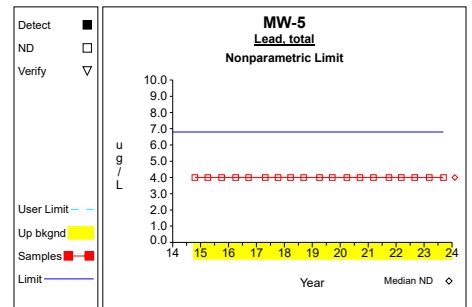
Graph 81



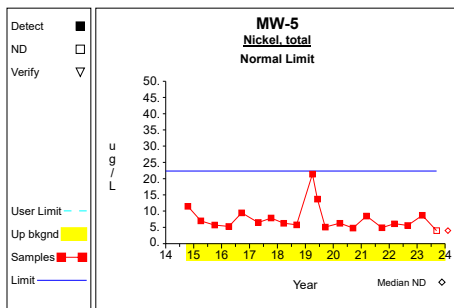
Graph 82



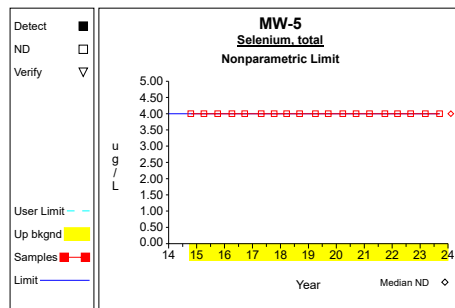
Graph 83



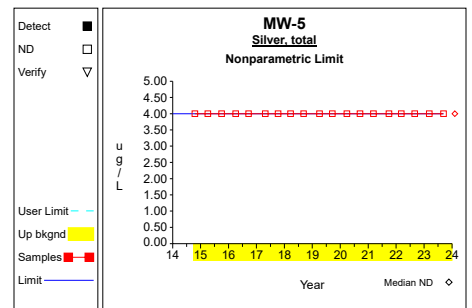
Graph 84



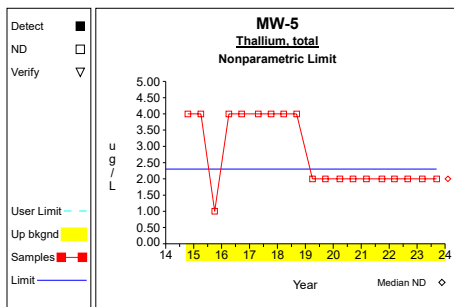
Graph 85



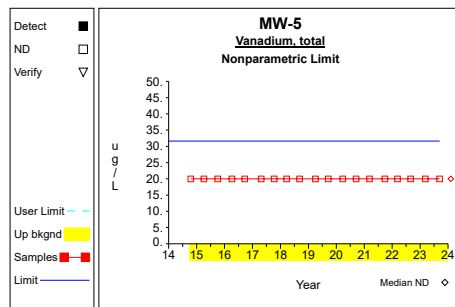
Graph 86



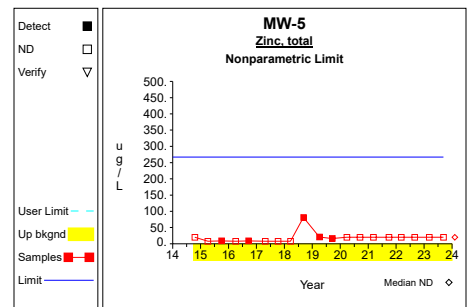
Graph 87



Graph 88

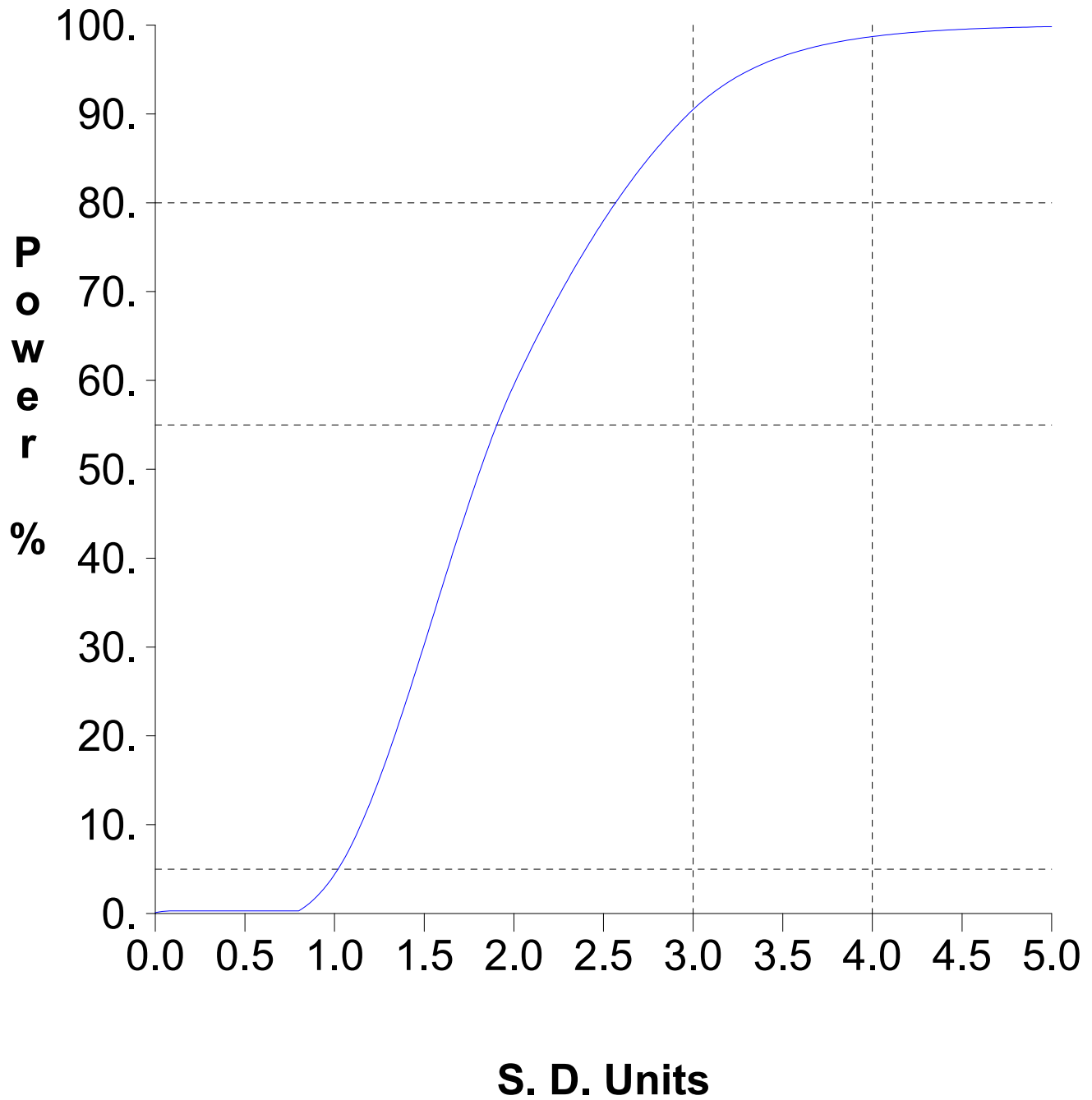


Graph 89



Graph 90

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



Attachment C

Assessment Statistics for Verified Trace Metal Exceedances

Table 1

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

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Arsenic, total	ug/L	MW-12	4	11.425	4.787	1.176	5.794	17.056	10.000		
Barium, total	ug/L	MW-12	4	357.000	74.328	1.176	269.569	444.431	2000.000		
Cadmium, total	ug/L	MW-12	4	0.400	0.000	1.176	0.400	0.400	5.000		
Chromium, total	ug/L	MW-12	4	4.000	0.000	1.176	4.000	4.000	100.000		
Cobalt, total	ug/L	MW-12	4	3.250	1.756	1.176	1.185	5.315	2.100		
Copper, total	ug/L	MW-12	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Nickel, total	ug/L	MW-12	4	6.125	2.282	1.176	3.440	8.810	100.000		
Arsenic, total	ug/L	MW-15R	4	19.925	1.276	1.176	18.424	21.426	10.000		**
Barium, total	ug/L	MW-15R	4	378.750	17.037	1.176	358.710	398.790	2000.000		
Cadmium, total	ug/L	MW-15R	4	0.400	0.000	1.176	0.400	0.400	5.000		
Chromium, total	ug/L	MW-15R	4	4.000	0.000	1.176	4.000	4.000	100.000		
Cobalt, total	ug/L	MW-15R	4	2.900	0.860	1.176	1.888	3.912	2.100		
Copper, total	ug/L	MW-15R	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Nickel, total	ug/L	MW-15R	4	3.100	1.270	1.176	1.606	4.594	100.000		
Arsenic, total	ug/L	MW-17	4	2.000	0.000	1.176	2.000	2.000	10.000		
Barium, total	ug/L	MW-17	4	160.000	23.650	1.176	132.181	187.819	2000.000		
Cadmium, total	ug/L	MW-17	4	0.400	0.000	1.176	0.400	0.400	5.000		
Chromium, total	ug/L	MW-17	4	4.000	0.000	1.176	4.000	4.000	100.000		
Cobalt, total	ug/L	MW-17	4	5.150	5.650	1.176	0.000	11.796	2.100		
Copper, total	ug/L	MW-17	4	2.500	1.000	1.176	1.324	3.676	1300.000		
Nickel, total	ug/L	MW-17	4	6.875	1.497	1.176	5.114	8.636	100.000		
Arsenic, total	ug/L	MW-18	4	21.400	4.152	1.176	16.516	26.284	10.000	dec	**
Barium, total	ug/L	MW-18	4	740.750	42.844	1.176	690.353	791.147	2000.000		
Cadmium, total	ug/L	MW-18	4	0.400	0.000	1.176	0.400	0.400	5.000		
Chromium, total	ug/L	MW-18	4	4.000	0.000	1.176	4.000	4.000	100.000		**
Cobalt, total	ug/L	MW-18	4	8.400	3.104	1.176	4.749	12.051	2.100		
Copper, total	ug/L	MW-18	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Nickel, total	ug/L	MW-18	4	15.850	5.912	1.176	8.896	22.804	100.000		
Arsenic, total	ug/L	MW-19A	4	2.000	0.000	1.176	2.000	2.000	10.000		
Barium, total	ug/L	MW-19A	4	35.750	4.054	1.176	30.981	40.519	2000.000		
Cadmium, total	ug/L	MW-19A	4	2.550	4.300	1.176	0.000	7.608	5.000		
Chromium, total	ug/L	MW-19A	4	4.000	0.000	1.176	4.000	4.000	100.000		
Cobalt, total	ug/L	MW-19A	4	0.450	0.100	1.176	0.332	0.568	2.100		
Copper, total	ug/L	MW-19A	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Nickel, total	ug/L	MW-19A	4	9.850	1.436	1.176	8.160	11.540	100.000	inc	
Arsenic, total	ug/L	MW-20R	4	46.450	4.859	1.176	40.734	52.166	10.000		**
Barium, total	ug/L	MW-20R	4	634.750	44.545	1.176	582.352	687.148	2000.000		
Cadmium, total	ug/L	MW-20R	4	0.400	0.000	1.176	0.400	0.400	5.000		
Chromium, total	ug/L	MW-20R	4	4.000	0.000	1.176	4.000	4.000	100.000		
Cobalt, total	ug/L	MW-20R	4	0.650	0.265	1.176	0.339	0.961	2.100		
Copper, total	ug/L	MW-20R	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Nickel, total	ug/L	MW-20R	4	2.000	0.000	1.176	2.000	2.000	100.000		
Arsenic, total	ug/L	MW-21	4	11.250	13.444	1.176	0.000	27.064	10.000		
Barium, total	ug/L	MW-21	4	784.500	453.936	1.176	250.541	1318.459	2000.000		
Cadmium, total	ug/L	MW-21	4	0.400	0.000	1.176	0.400	0.400	5.000		
Chromium, total	ug/L	MW-21	4	4.000	0.000	1.176	4.000	4.000	100.000		
Cobalt, total	ug/L	MW-21	4	0.575	0.236	1.176	0.297	0.853	2.100		
Copper, total	ug/L	MW-21	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Nickel, total	ug/L	MW-21	4	5.975	0.640	1.176	5.223	6.727	100.000		

* - Insufficient Data

** - Significant Exceedance

LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

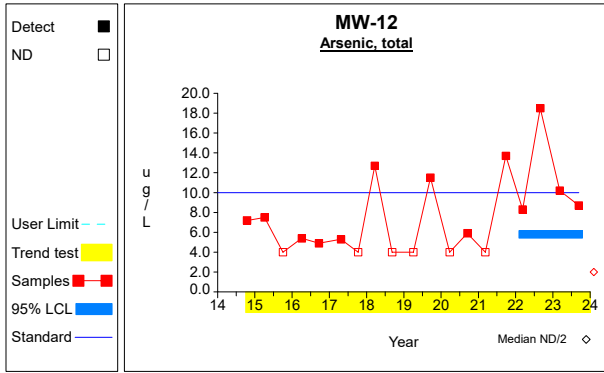
Table 1

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

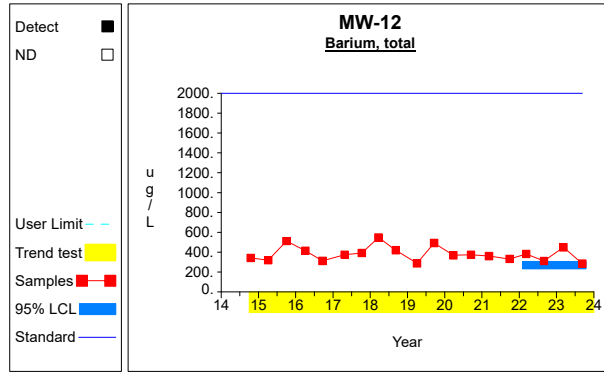
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Arsenic, total	ug/L	MW-24	4	71.700	46.120	1.176	17.449	125.951	10.000		**
Barium, total	ug/L	MW-24	4	568.250	174.641	1.176	362.821	773.679	2000.000		
Cadmium, total	ug/L	MW-24	4	0.500	0.200	1.176	0.265	0.735	5.000		
Chromium, total	ug/L	MW-24	4	4.000	0.000	1.176	4.000	4.000	100.000		
Cobalt, total	ug/L	MW-24	4	0.925	0.660	1.176	0.148	1.702	2.100	dec	
Copper, total	ug/L	MW-24	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Nickel, total	ug/L	MW-24	4	2.000	0.000	1.176	2.000	2.000	100.000		
Arsenic, total	ug/L	MW-25	4	2.000	0.000	1.176	2.000	2.000	10.000		
Barium, total	ug/L	MW-25	4	101.850	20.994	1.176	77.155	126.545	2000.000		
Cadmium, total	ug/L	MW-25	1								*
Chromium, total	ug/L	MW-25	1								*
Cobalt, total	ug/L	MW-25	1								*
Copper, total	ug/L	MW-25	1								*
Nickel, total	ug/L	MW-25	1								*
Arsenic, total	ug/L	MW-26	4	83.750	89.391	1.176	0.000	188.899	10.000		
Barium, total	ug/L	MW-26	4	860.750	681.528	1.176	59.076	1662.424	2000.000		
Cadmium, total	ug/L	MW-26	1								*
Chromium, total	ug/L	MW-26	1								*
Cobalt, total	ug/L	MW-26	1								*
Copper, total	ug/L	MW-26	1								*
Nickel, total	ug/L	MW-26	1								*
Arsenic, total	ug/L	MW-4	4	66.175	18.812	1.176	44.046	88.304	10.000		**
Barium, total	ug/L	MW-4	4	956.500	56.027	1.176	890.596	1022.404	2000.000	dec	
Cadmium, total	ug/L	MW-4	4	0.750	0.700	1.176	0.000	1.573	5.000		
Chromium, total	ug/L	MW-4	4	11.475	14.950	1.176	0.000	29.061	100.000		
Cobalt, total	ug/L	MW-4	4	3.900	4.668	1.176	0.000	9.391	2.100		
Copper, total	ug/L	MW-4	4	3.675	3.350	1.176	0.000	7.616	1300.000		
Nickel, total	ug/L	MW-4	4	15.975	24.579	1.176	0.000	44.888	100.000		
Arsenic, total	ug/L	MW-5	4	144.550	180.975	1.176	0.000	357.429	10.000	inc	
Barium, total	ug/L	MW-5	4	340.750	113.670	1.176	207.041	474.459	2000.000	inc	
Cadmium, total	ug/L	MW-5	4	0.675	0.550	1.176	0.028	1.322	5.000		
Chromium, total	ug/L	MW-5	4	4.000	0.000	1.176	4.000	4.000	100.000		
Cobalt, total	ug/L	MW-5	4	3.225	1.511	1.176	1.448	5.002	2.100	dec	
Copper, total	ug/L	MW-5	4	17.325	18.898	1.176	0.000	39.555	1300.000		
Nickel, total	ug/L	MW-5	4	5.600	2.758	1.176	2.356	8.844	100.000		
Arsenic, total	ug/L	MW-9	4	3.300	2.600	1.176	0.242	6.358	10.000		
Barium, total	ug/L	MW-9	4	272.250	22.998	1.176	245.197	299.303	2000.000		
Cadmium, total	ug/L	MW-9	4	0.400	0.000	1.176	0.400	0.400	5.000		
Chromium, total	ug/L	MW-9	4	4.000	0.000	1.176	4.000	4.000	100.000		
Cobalt, total	ug/L	MW-9	4	5.050	0.208	1.176	4.805	5.295	2.100		**
Copper, total	ug/L	MW-9	4	2.000	0.000	1.176	2.000	2.000	1300.000		
Nickel, total	ug/L	MW-9	4	10.050	0.379	1.176	9.605	10.495	100.000		

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

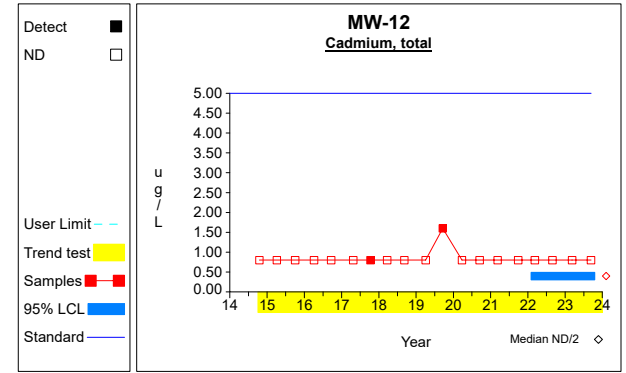
Confidence Limits (Assessment)



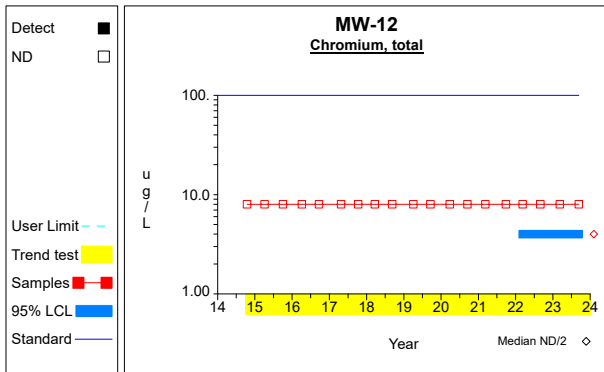
Graph 1



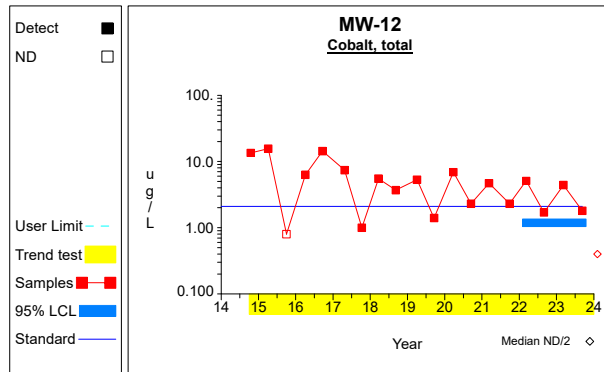
Graph 2



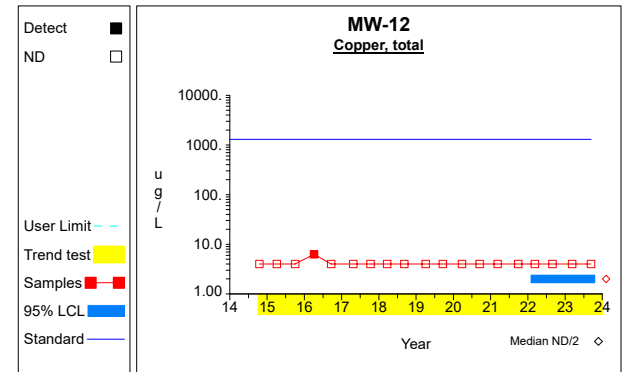
Graph 3



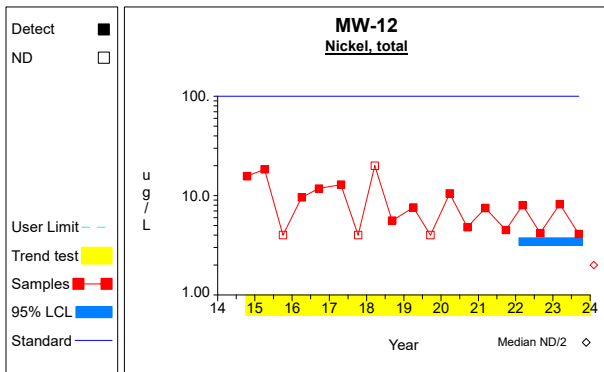
Graph 4



Graph 5

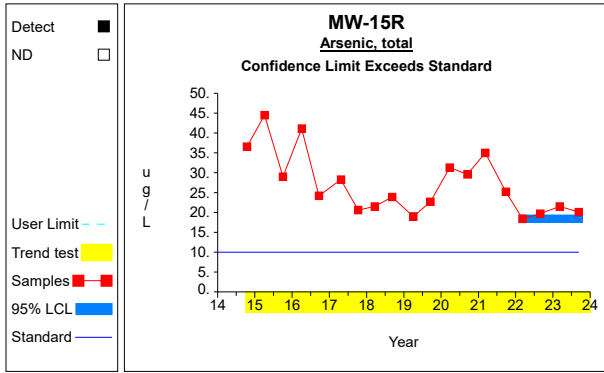


Graph 6

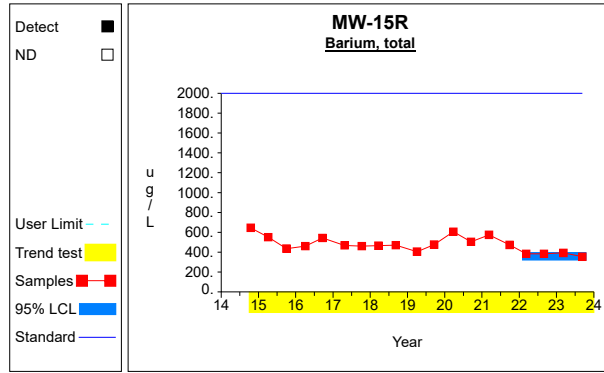


Graph 7

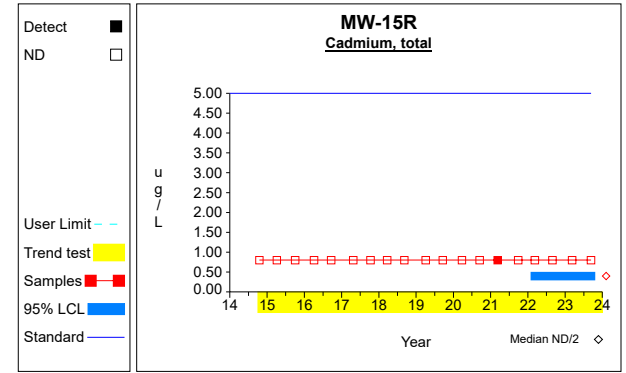
Confidence Limits (Assessment)



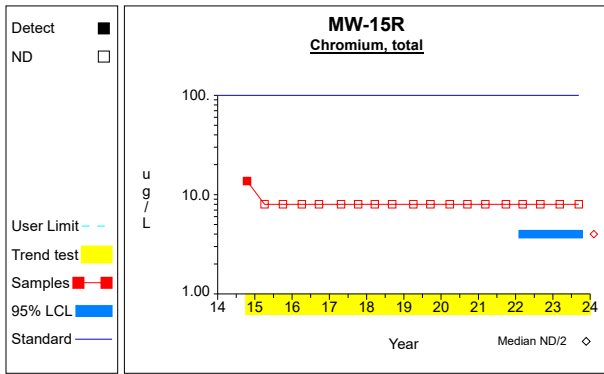
Graph 8



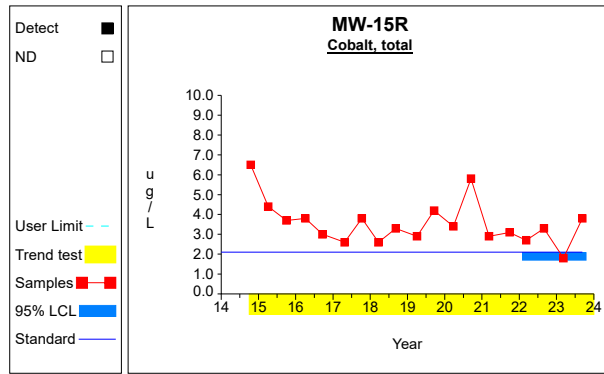
Graph 9



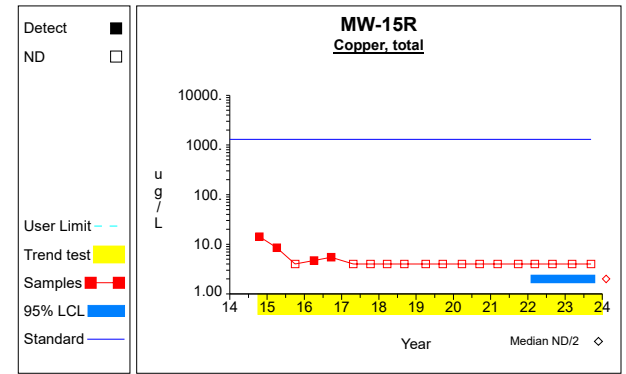
Graph 10



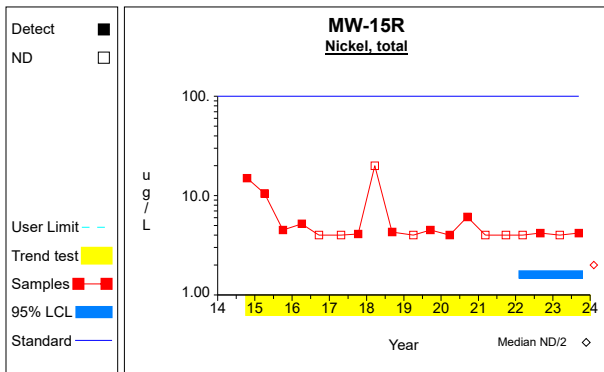
Graph 11



Graph 12

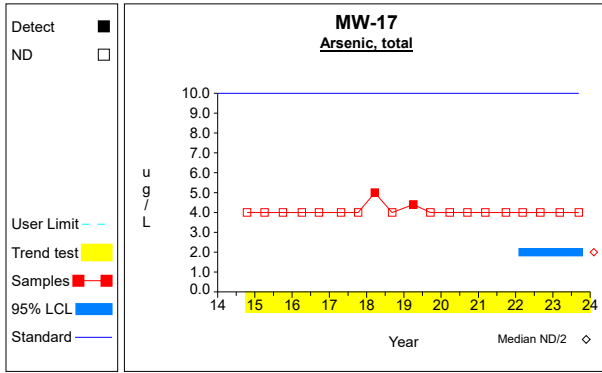


Graph 13

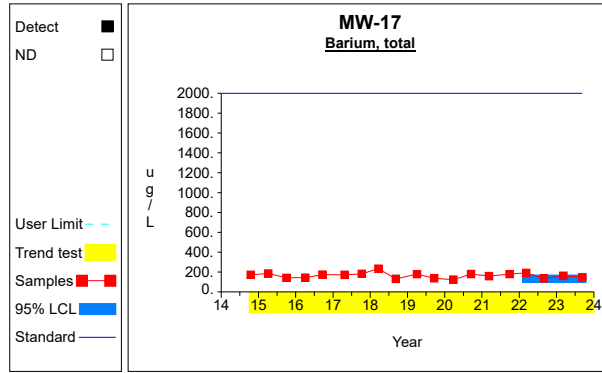


Graph 14

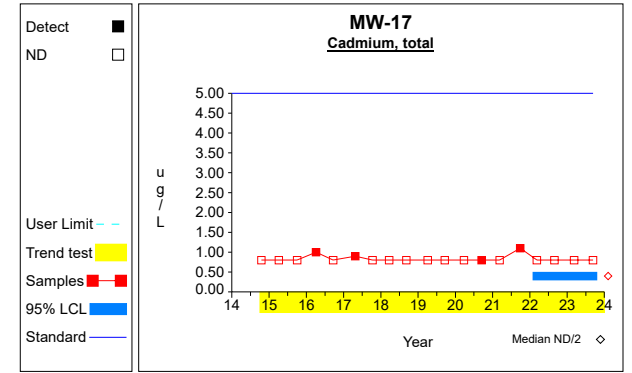
Confidence Limits (Assessment)



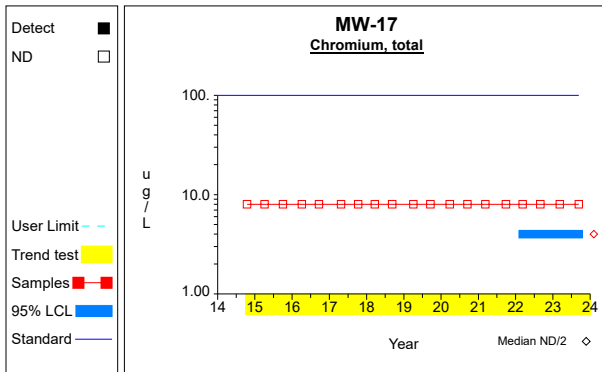
Graph 15



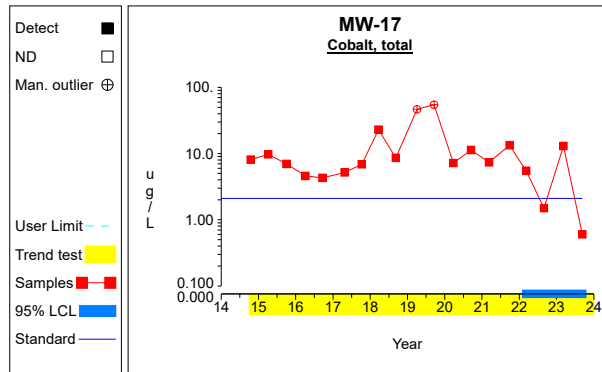
Graph 16



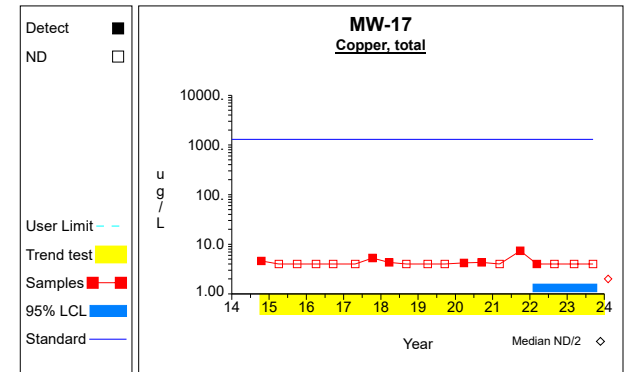
Graph 17



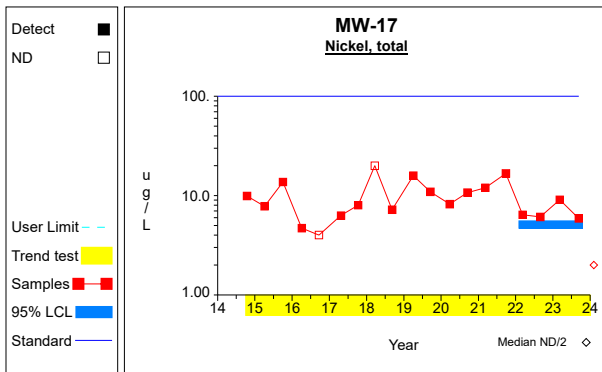
Graph 18



Graph 19

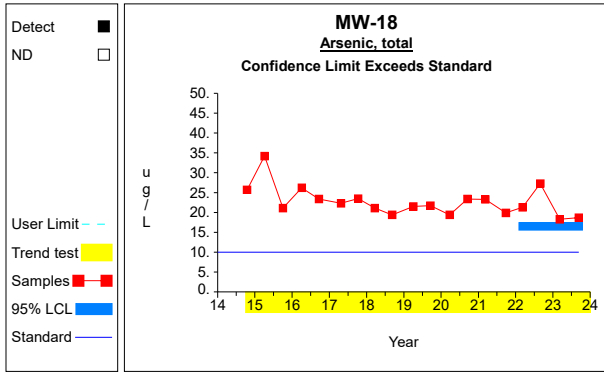


Graph 20

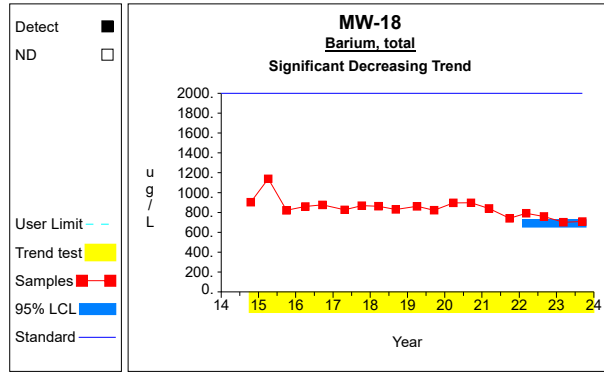


Graph 21

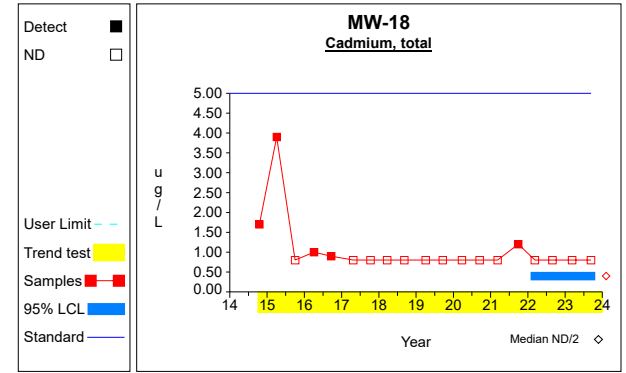
Confidence Limits (Assessment)



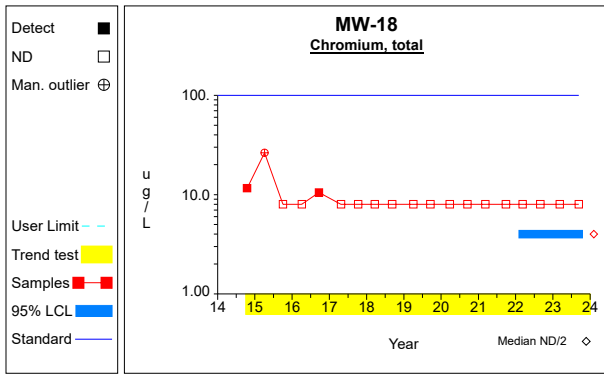
Graph 22



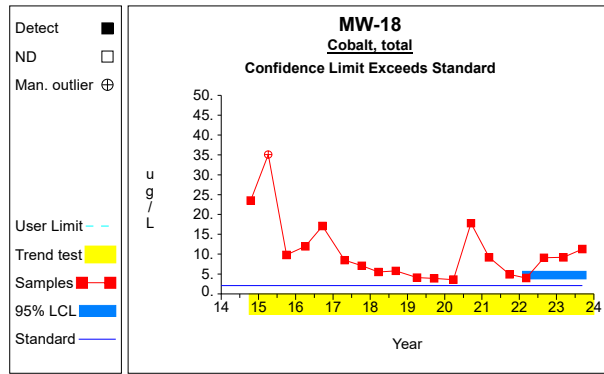
Graph 23



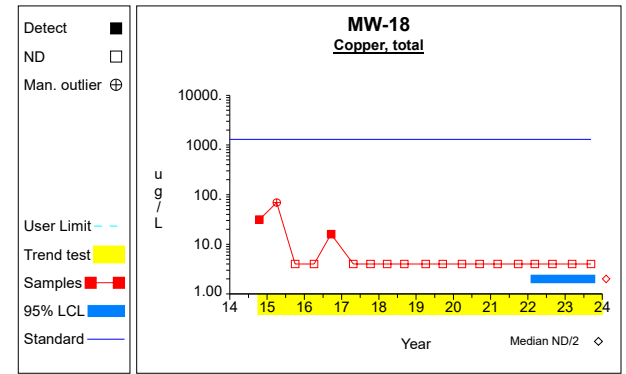
Graph 24



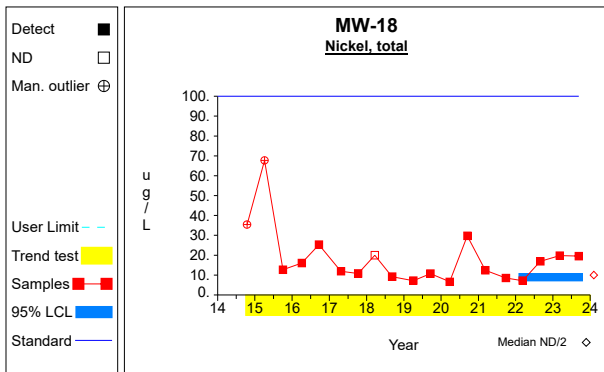
Graph 25



Graph 26

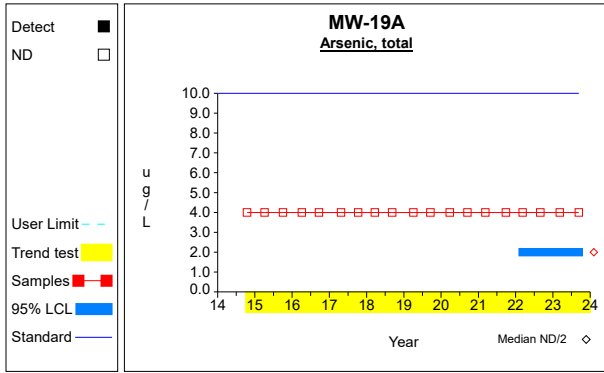


Graph 27

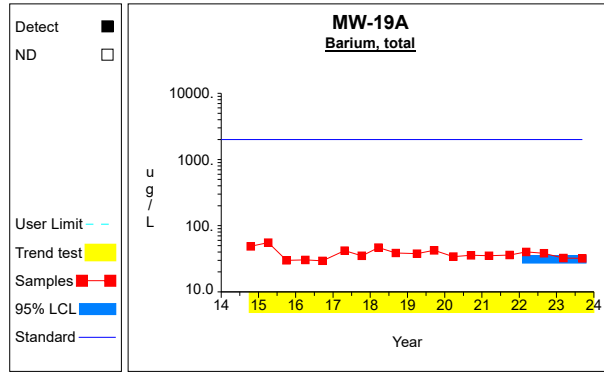


Graph 28

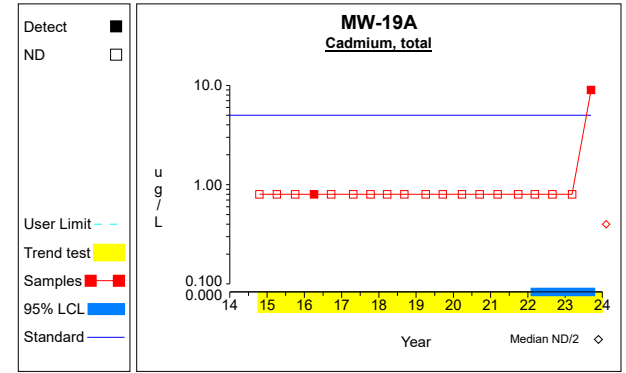
Confidence Limits (Assessment)



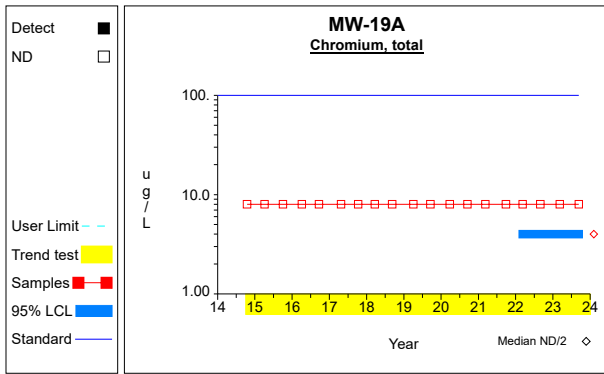
Graph 29



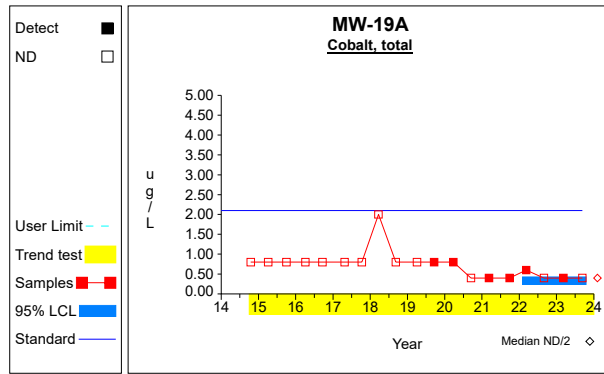
Graph 30



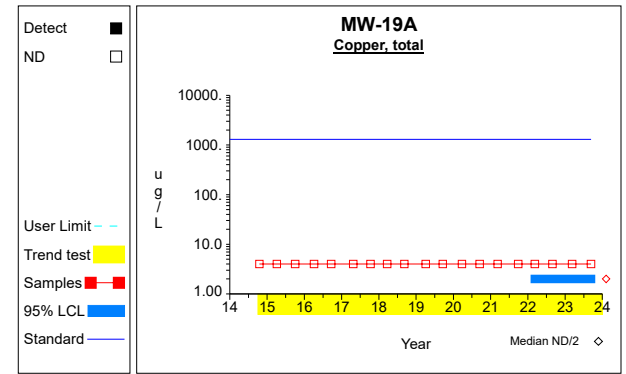
Graph 31



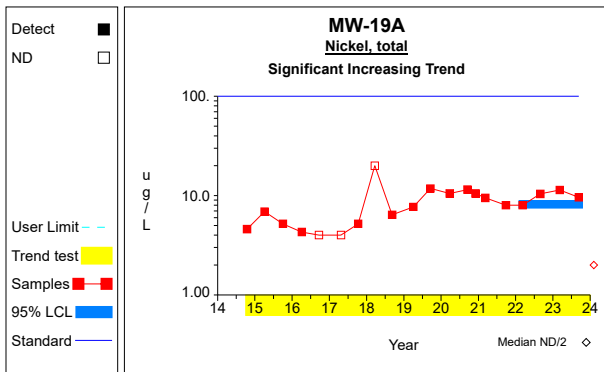
Graph 32



Graph 33

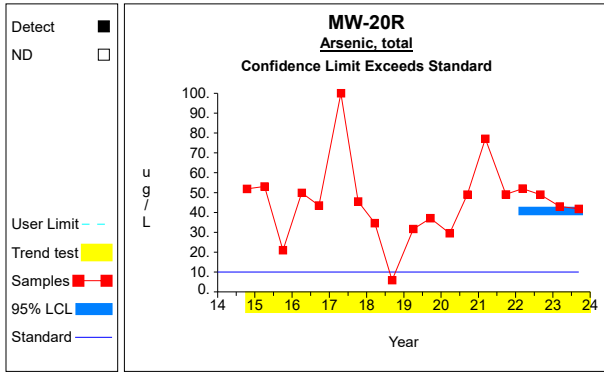


Graph 34

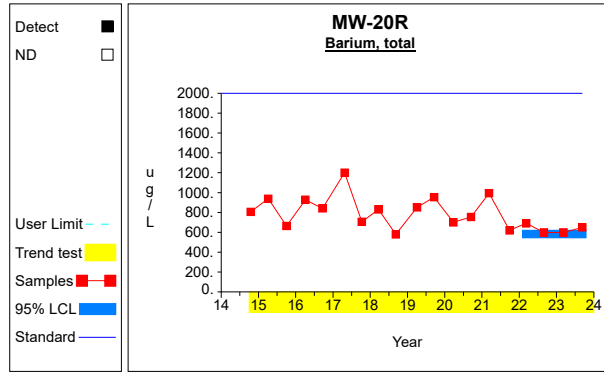


Graph 35

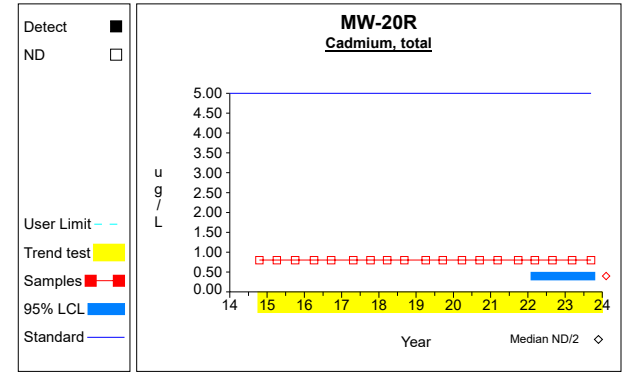
Confidence Limits (Assessment)



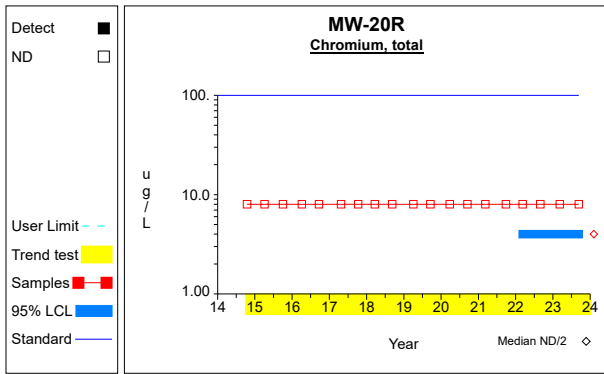
Graph 36



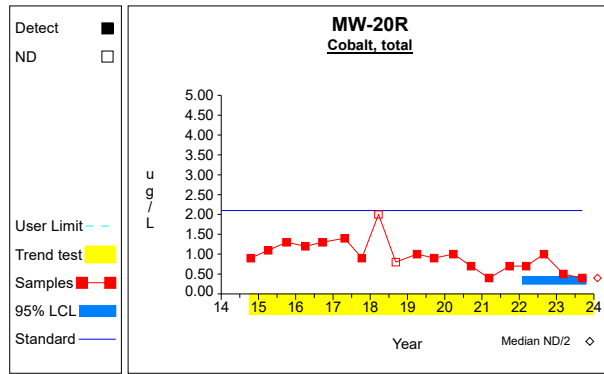
Graph 37



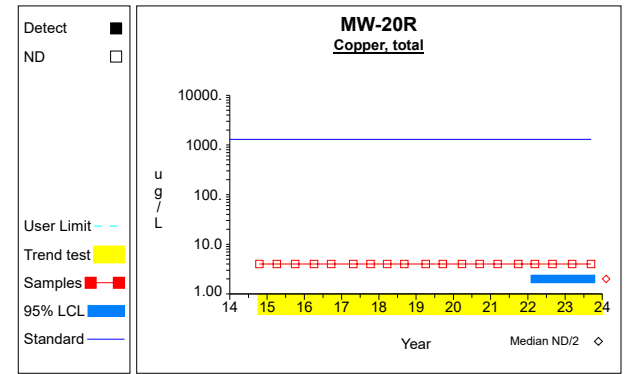
Graph 38



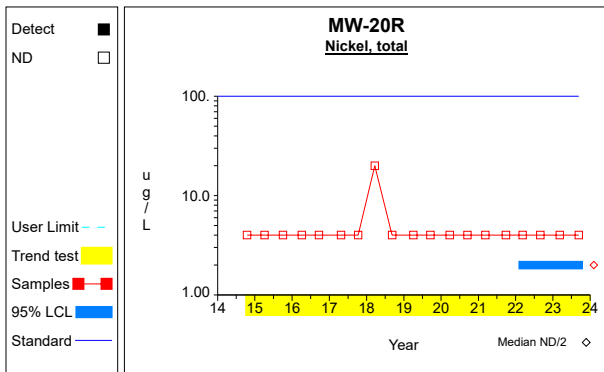
Graph 39



Graph 40

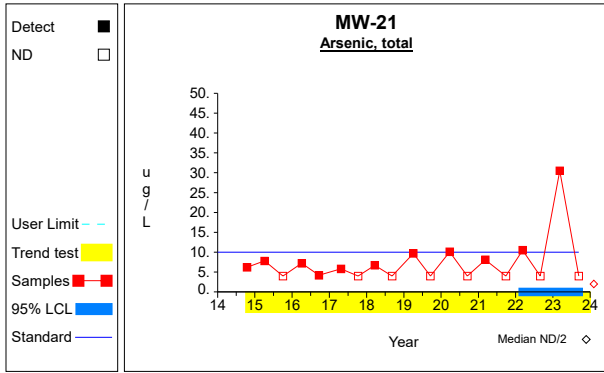


Graph 41

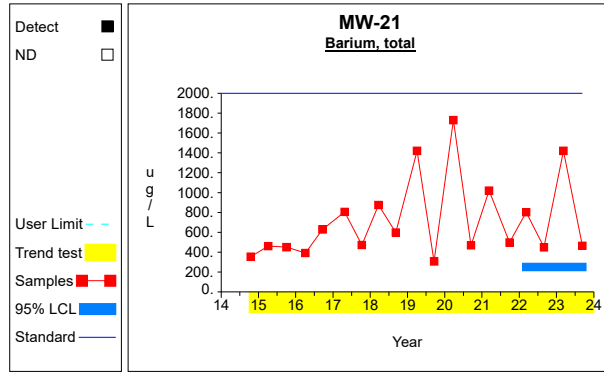


Graph 42

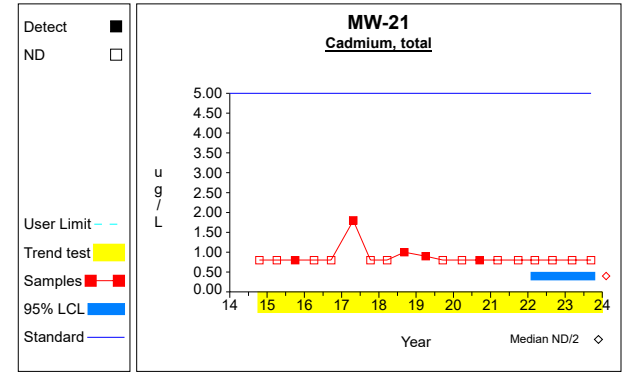
Confidence Limits (Assessment)



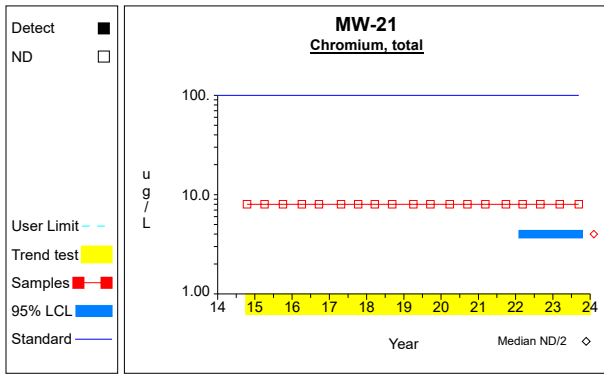
Graph 43



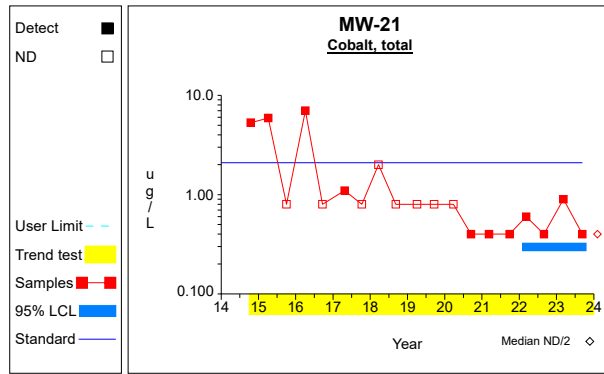
Graph 44



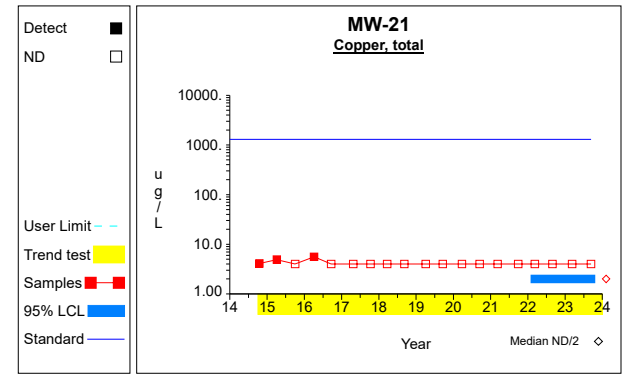
Graph 45



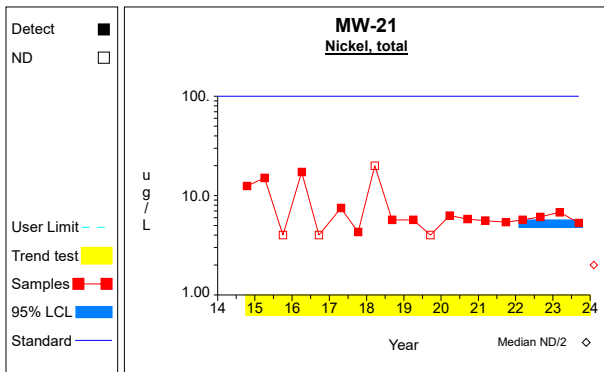
Graph 46



Graph 47

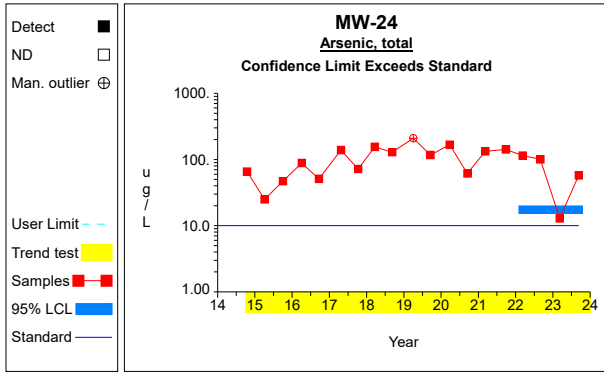


Graph 48

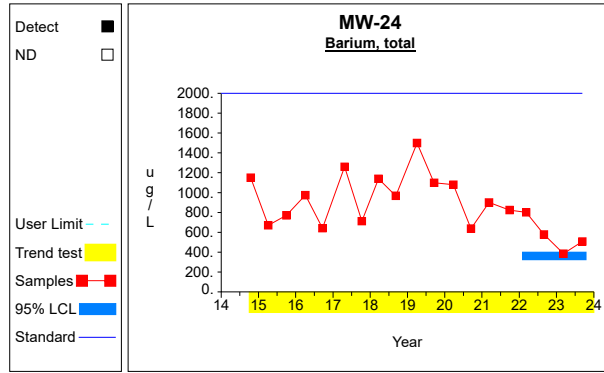


Graph 49

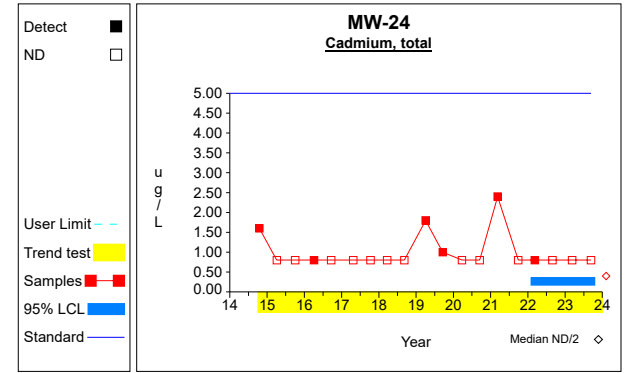
Confidence Limits (Assessment)



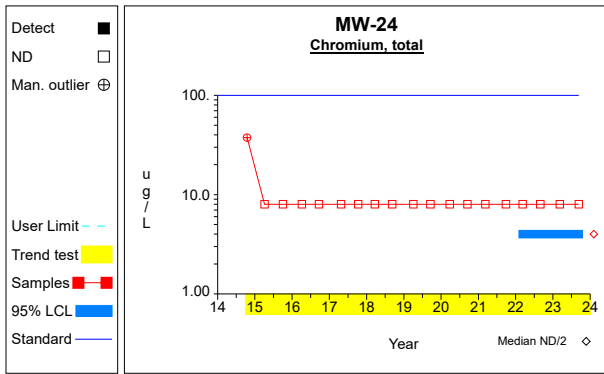
Graph 50



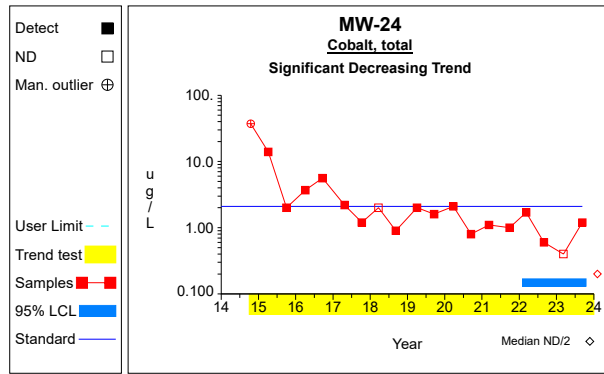
Graph 51



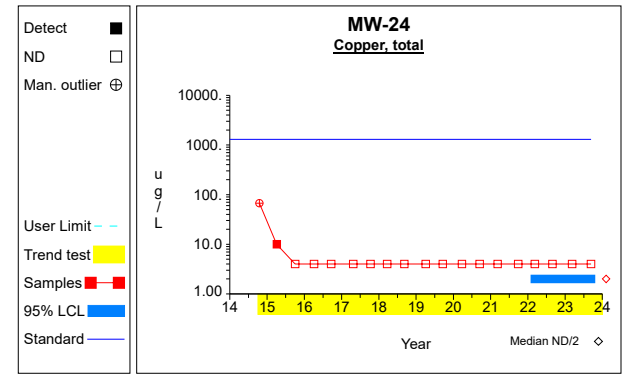
Graph 52



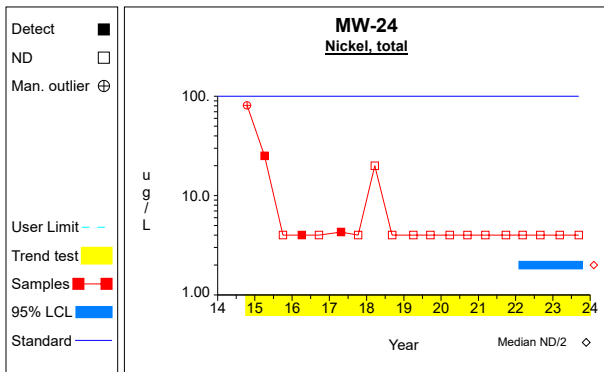
Graph 53



Graph 54

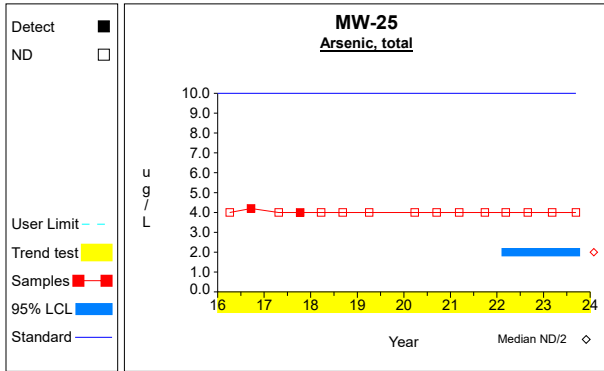


Graph 55

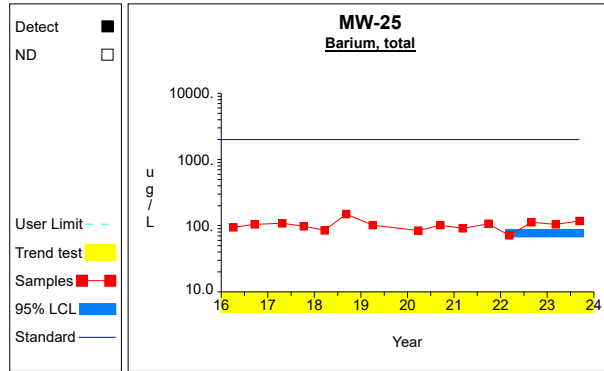


Graph 56

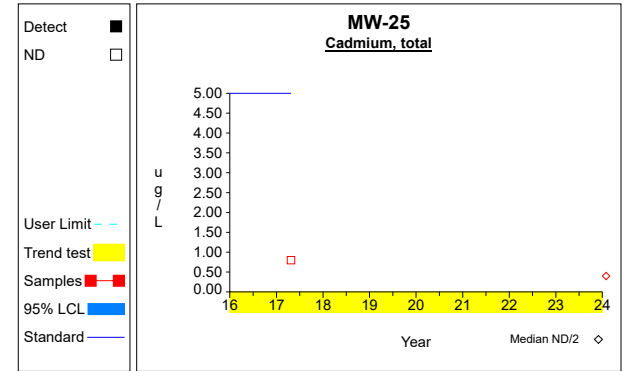
Confidence Limits (Assessment)



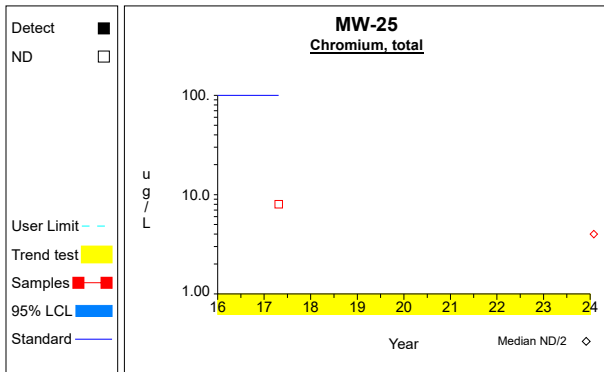
Graph 57



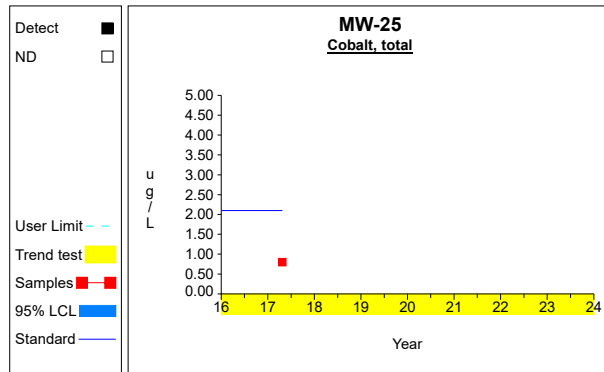
Graph 58



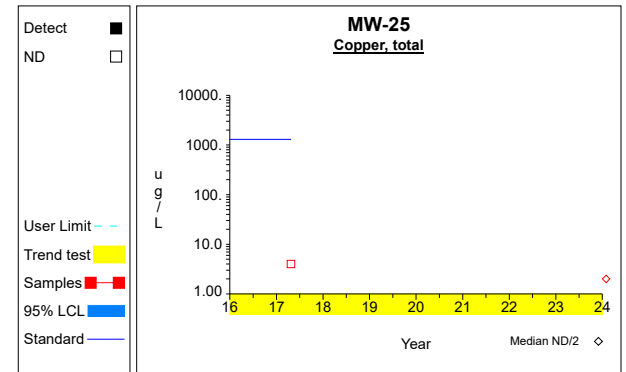
Graph 59



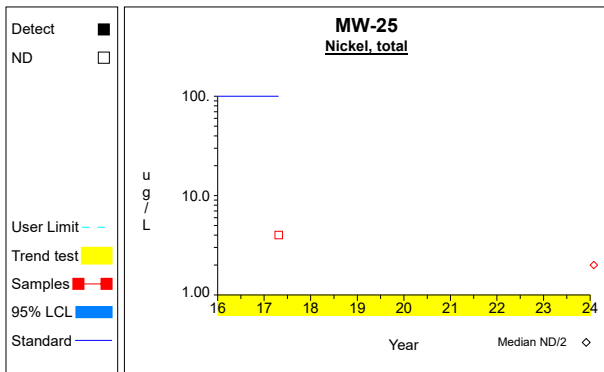
Graph 60



Graph 61

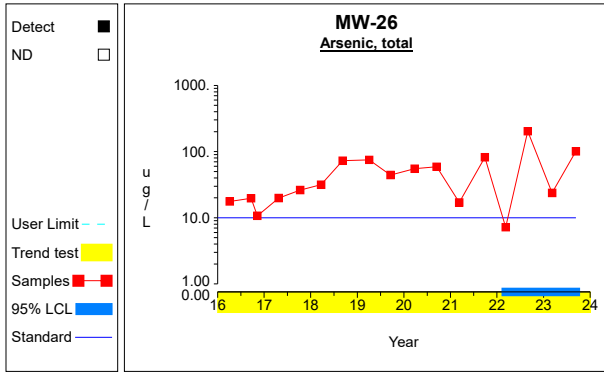


Graph 62

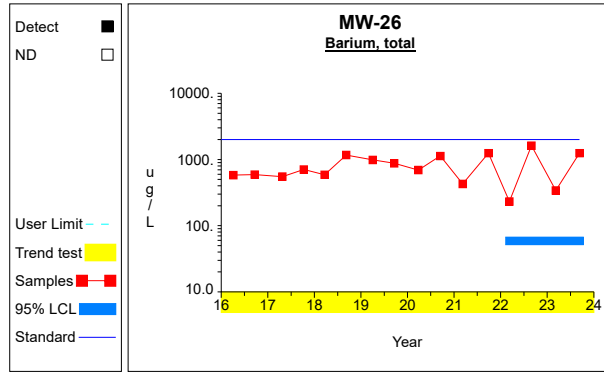


Graph 63

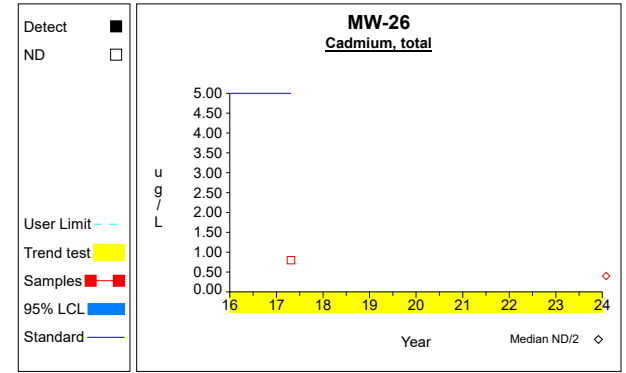
Confidence Limits (Assessment)



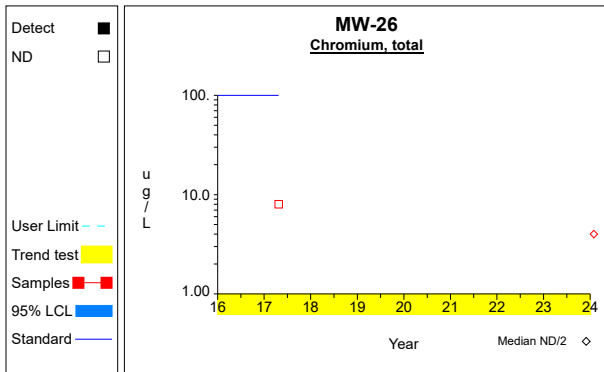
Graph 64



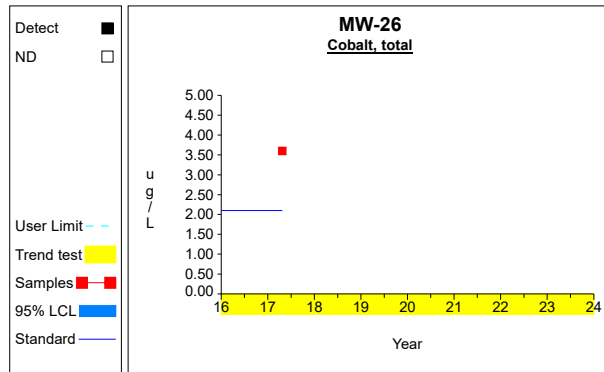
Graph 65



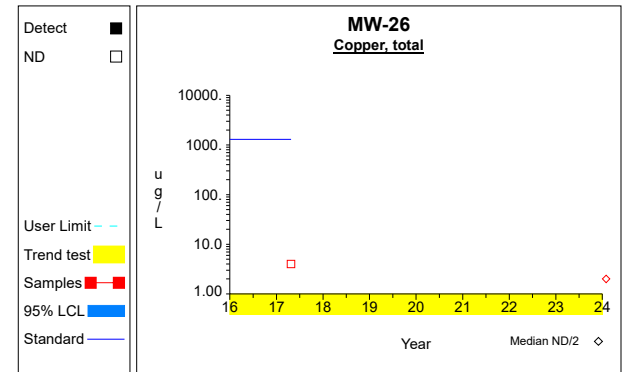
Graph 66



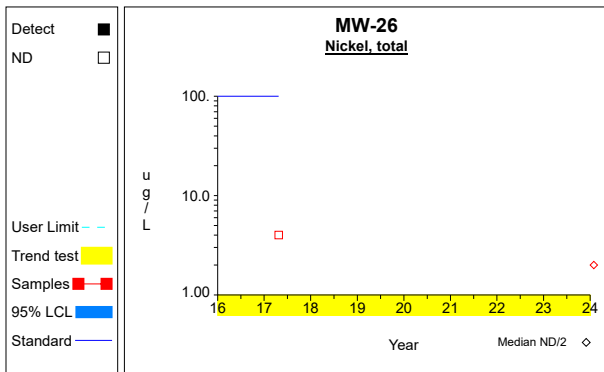
Graph 67



Graph 68

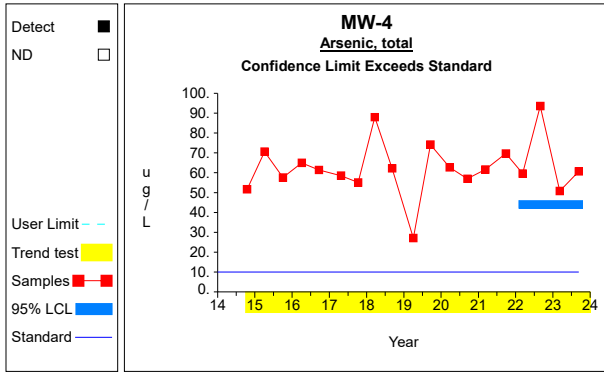


Graph 69

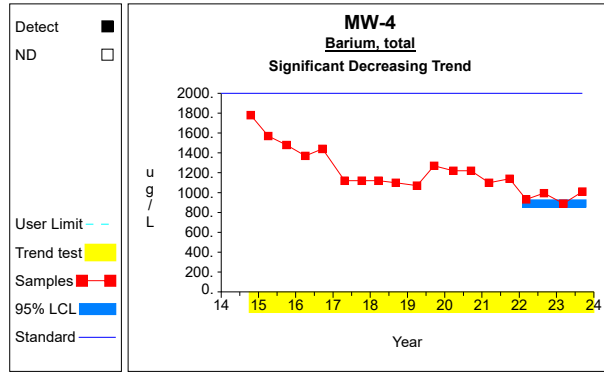


Graph 70

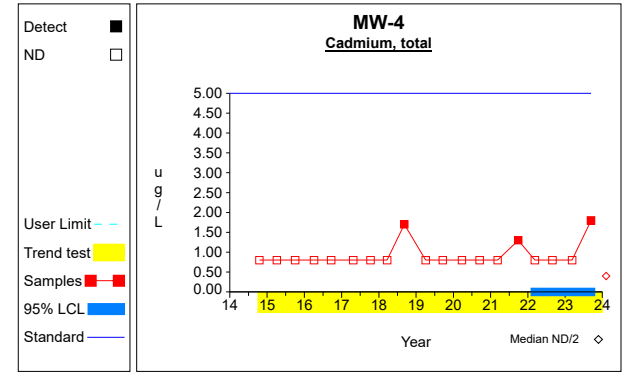
Confidence Limits (Assessment)



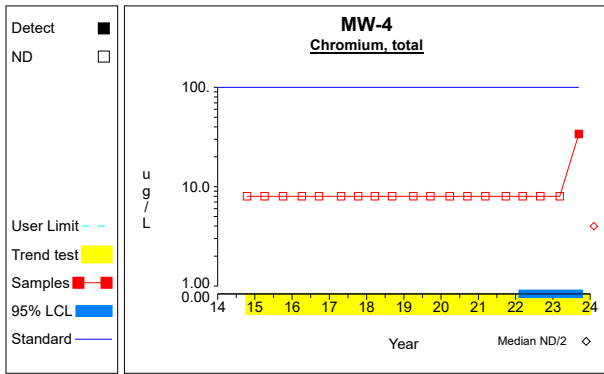
Graph 71



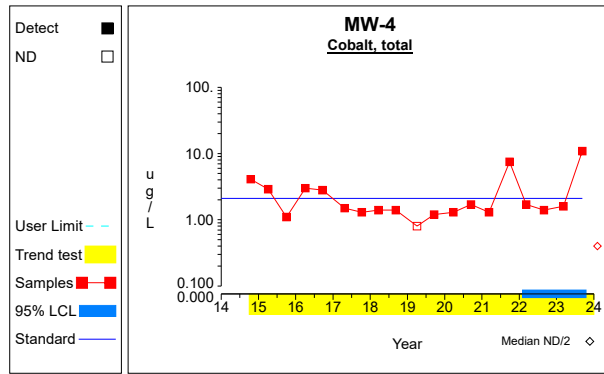
Graph 72



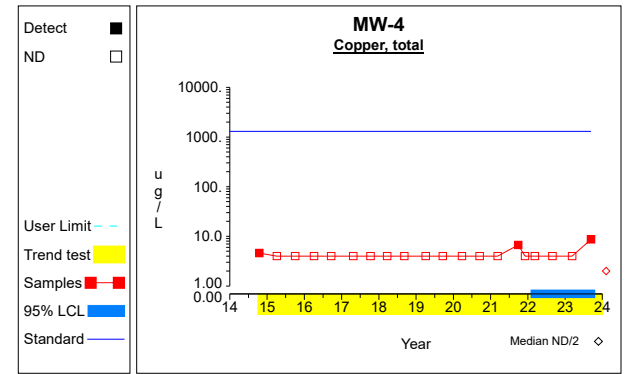
Graph 73



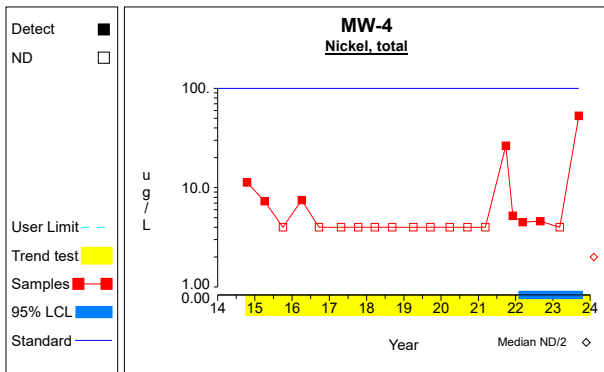
Graph 74



Graph 75

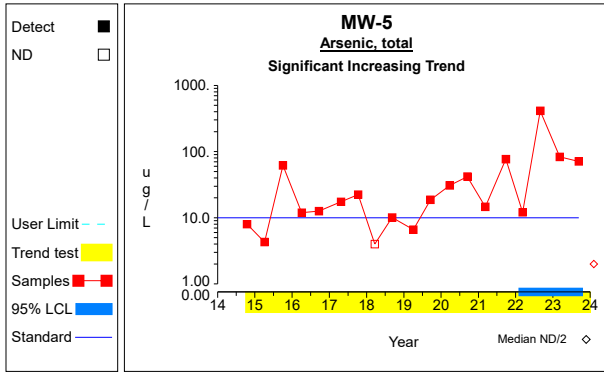


Graph 76

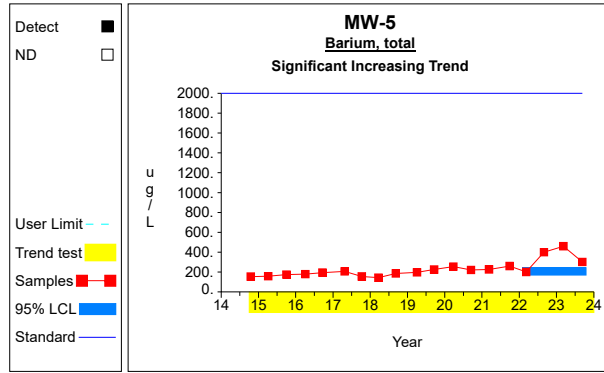


Graph 77

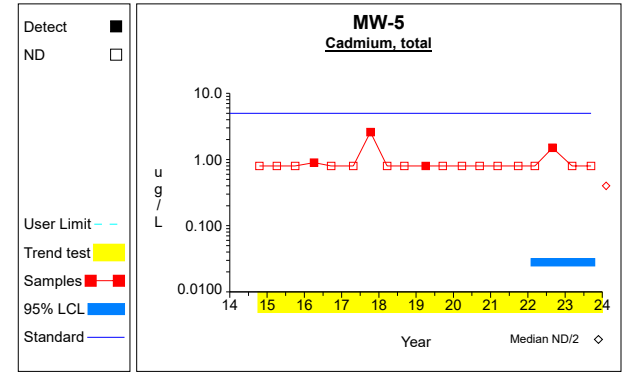
Confidence Limits (Assessment)



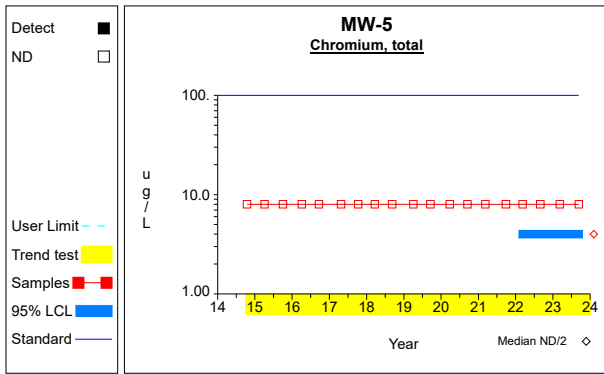
Graph 78



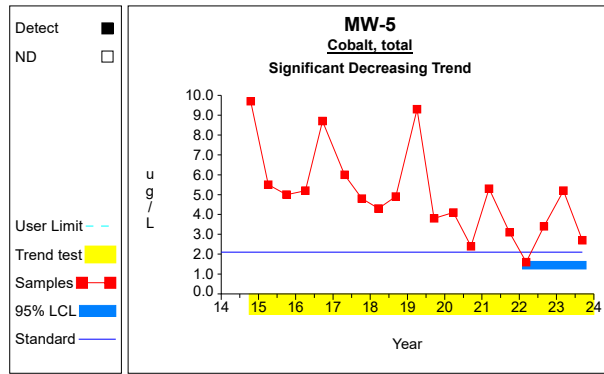
Graph 79



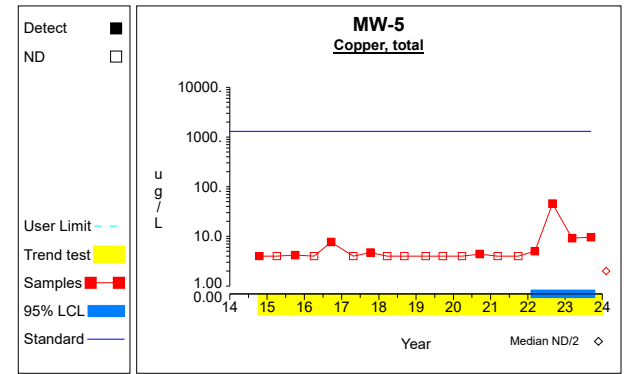
Graph 80



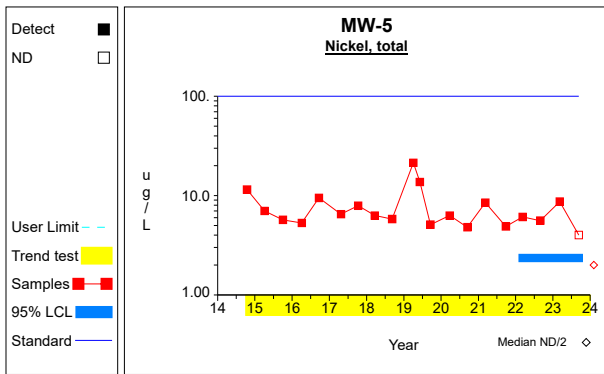
Graph 81



Graph 82

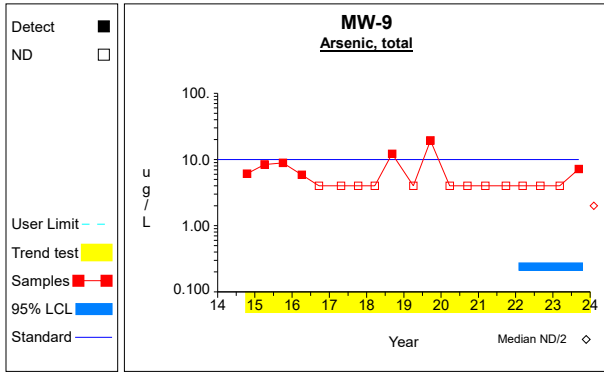


Graph 83

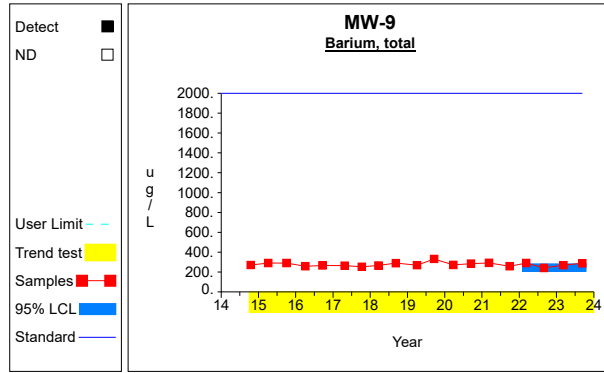


Graph 84

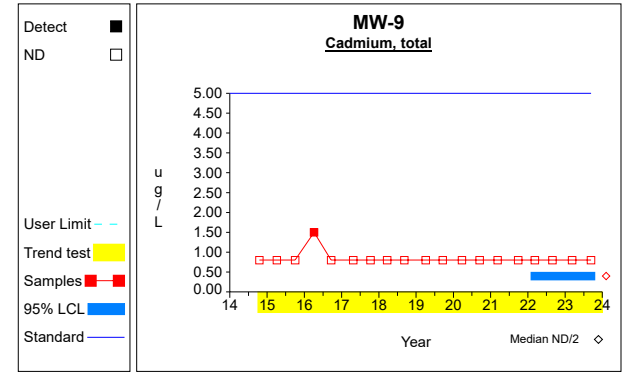
Confidence Limits (Assessment)



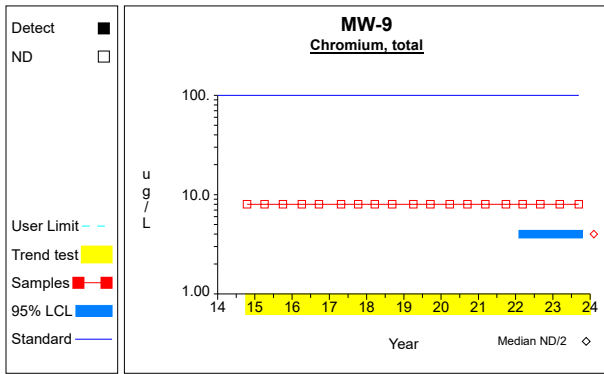
Graph 85



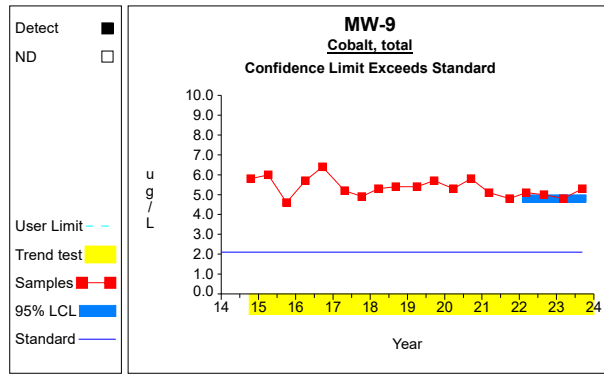
Graph 86



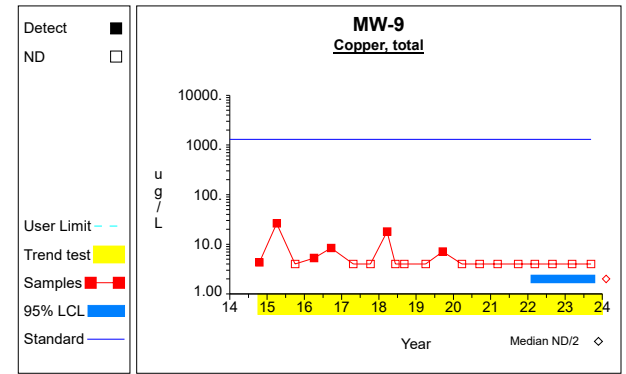
Graph 87



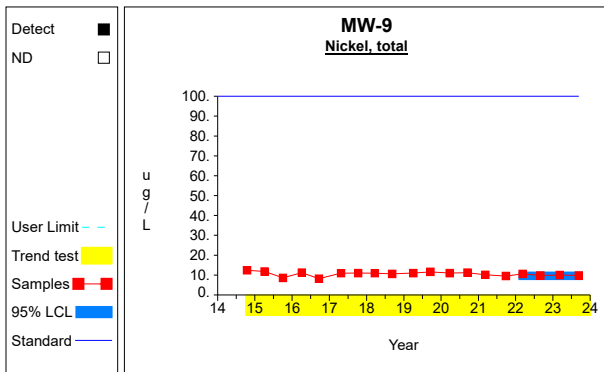
Graph 88



Graph 89



Graph 90



Graph 91

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, total	ug/L	MW-12	13	6	36			2.0000	2.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	MW-12	13	6	36	6.1846	2.8933	10.2000	8.7000	23.4661	23.8115	24.9913	normal		
Barium, total	ug/L	MW-12	13	6	36	396.8462	79.3304	450.0000	285.0000	396.8462	396.8462	912.4936	normal		
Beryllium, total	ug/L	MW-12	13	6	36			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW-12	13	6	36			0.8000	0.8000			1.6000	nonpar	.99	**
Chromium, total	ug/L	MW-12	13	6	36			8.0000	8.0000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	MW-12	13	6	36	6.4692	5.0981	4.4000	1.8000	6.4692	6.4692	39.6069	normal		
Copper, total	ug/L	MW-12	13	6	36			4.0000	4.0000			6.3000	nonpar	.99	**
Lead, total	ug/L	MW-12	13	6	36			4.0000	4.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	MW-12	13	6	36	8.6846	4.9056	8.2000	4.1000	8.6846	8.6846	40.5709	normal		
Selenium, total	ug/L	MW-12	13	6	36			4.0000	4.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW-12	13	6	36			4.0000	4.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW-12	13	6	36			2.0000	2.0000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW-12	13	6	36			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, total	ug/L	MW-12	12	6	36								nonpar*		**
Antimony, total	ug/L	MW-15R	13	6	31			2.0000	2.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	MW-15R	13	6	31	28.6385	7.9813	21.5000	20.1000	28.6385	28.6385	80.5168	normal		
Barium, total	ug/L	MW-15R	13	6	31	499.6923	68.6384	393.0000	354.0000	499.6923	499.6923	945.8419	normal		
Beryllium, total	ug/L	MW-15R	13	6	31			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW-15R	13	6	31			0.8000	0.8000			0.8000	nonpar	.99	**
Chromium, total	ug/L	MW-15R	13	6	31			8.0000	8.0000			13.7000	nonpar	.99	**
Cobalt, total	ug/L	MW-15R	13	6	31	3.8462	1.1738	1.8000	3.8000	3.8462	3.8462	11.4755	normal		
Copper, total	ug/L	MW-15R	12	6	31	4.5583	1.3228	4.0000	4.0000	4.5583	4.5583	13.1568	normal		
Lead, total	ug/L	MW-15R	13	6	31			4.0000	4.0000			10.0000	nonpar	.99	**
Nickel, total	ug/L	MW-15R	11	6	31	5.0182	1.9312	4.0000	4.2000	5.0182	5.0182	17.5712	normal		
Selenium, total	ug/L	MW-15R	13	6	31			4.0000	4.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW-15R	13	6	31			4.0000	4.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW-15R	13	6	31			2.0000	2.0000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW-15R	13	6	31			20.0000	20.0000			27.9000	nonpar	.99	**
Zinc, total	ug/L	MW-15R	13	6	31	20.3769	23.4020	20.0000	20.0000	20.3769	20.3769	172.4897	normal		
Antimony, total	ug/L	MW-20R	13	6	31			2.0000	2.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	MW-20R	12	6	31	45.5667	19.8645	43.0000	41.8000	45.5667	45.5667	174.6860	normal		
Barium, total	ug/L	MW-20R	13	6	31	827.3846	158.7737	599.0000	650.0000	827.3846	827.3846	1859.4137	normal		
Beryllium, total	ug/L	MW-20R	13	6	31			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW-20R	13	6	31			0.8000	0.8000			0.8000	nonpar	.99	**
Chromium, total	ug/L	MW-20R	13	6	31			8.0000	8.0000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	MW-20R	13	6	31	1.0231	0.2204	0.5000	0.4000	1.0231	1.0231	2.4559	normal		
Copper, total	ug/L	MW-20R	13	6	31			4.0000	4.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	MW-20R	13	6	31			4.0000	4.0000			4.1000	nonpar	.99	**
Nickel, total	ug/L	MW-20R	12	6	31								nonpar*		**
Selenium, total	ug/L	MW-20R	13	6	31			4.0000	4.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW-20R	13	6	31			4.0000	4.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW-20R	13	6	31			2.0000	2.0000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW-20R	13	6	31			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, total	ug/L	MW-20R	12	6	31	9.7833	3.2566	20.0000	20.0000	9.7833	9.7833	30.9509	normal		
Antimony, total	ug/L	MW-21	13	6	31			2.0000	2.0000			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, total	ug/L	MW-21	13	6	31	5.9769	2.2170	30.5000	4.0000	28.8372	5.9769	20.3877	normal		
Barium, total	ug/L	MW-21	13	6	31	689.6154	430.9446	1420.0000	465.0000	1096.7915	689.6154	3490.7553	normal		
Beryllium, total	ug/L	MW-21	13	6	31			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW-21	13	6	31	0.9000	0.2769	0.8000	0.8000	0.9000	0.9000	2.6998	normal		
Chromium, total	ug/L	MW-21	13	6	31			8.0000	8.0000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	MW-21	13	6	31	2.0077	2.3450	0.9000	0.4000	2.0077	2.0077	17.2503	normal		
Copper, total	ug/L	MW-21	13	6	31			4.0000	4.0000			5.6000	nonpar	.99	**
Lead, total	ug/L	MW-21	13	6	31			4.0000	4.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	MW-21	13	6	31	7.4000	4.5527	6.8000	5.3000	7.4000	7.4000	36.9923	normal		
Selenium, total	ug/L	MW-21	13	6	31			4.0000	4.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW-21	13	6	31			4.0000	4.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW-21	13	6	31			2.0000	2.0000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW-21	13	6	31			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, total	ug/L	MW-21	13	6	31	12.8000	9.1223	20.0000	20.0000	12.8000	12.8000	72.0951	normal		
Antimony, total	ug/L	MW-4	13	6	35			2.0000	2.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	MW-4	13	6	35	60.8538	13.9042	50.8000	60.7000	62.6898	60.8538	151.2314	normal		
Barium, total	ug/L	MW-4	13	6	35	1298.4615	216.7889	890.0000	1010.0000	1298.4615	1298.4615	2707.5895	normal		
Beryllium, total	ug/L	MW-4	13	6	35			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW-4	13	6	35			0.8000	1.8000			1.7000	nonpar	.99	**
Chromium, total	ug/L	MW-4	13	6	35			8.0000	33.9000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	MW-4	13	6	35	1.8846	0.9839	1.6000	10.9000	3.5944	11.8719	8.2800	normal		
Copper, total	ug/L	MW-4	13	7	36			4.0000	8.7000			4.6000	nonpar	.99	**
Lead, total	ug/L	MW-4	13	6	35			4.0000	4.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	MW-4	13	7	36			4.0000	52.8000			11.3000	nonpar	.99	**
Selenium, total	ug/L	MW-4	13	6	35			4.0000	4.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW-4	13	6	35			4.0000	4.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW-4	13	6	35			2.0000	2.0000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW-4	13	6	35			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, total	ug/L	MW-4	13	6	35	25.0077	33.8016	20.0000	75.7000	25.0077	50.3488	244.7180	normal		
Antimony, total	ug/L	MW-5	13	6	36			2.0000	2.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	MW-5	13	6	36	19.2769	16.8417	83.0000	71.1000	95.3524	134.5442	128.7478	normal		
Barium, total	ug/L	MW-5	13	6	36	188.3846	32.6408	460.0000	302.0000	484.9237	326.9237	400.5499	normal		
Beryllium, total	ug/L	MW-5	13	6	36			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW-5	12	6	36								nonpar *		**
Chromium, total	ug/L	MW-5	13	6	36			8.0000	8.0000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	MW-5	13	6	36	5.6692	2.2228	5.2000	2.7000	5.6692	5.6692	20.1171	normal		
Copper, total	ug/L	MW-5	13	6	36	4.3846	1.0189	9.2000	9.6000	8.4359	12.8871	11.0072	normal		
Lead, total	ug/L	MW-5	13	6	36			4.0000	4.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	MW-5	14	6	37	8.3429	4.5574	8.7000	4.0000	8.3429	8.3429	37.9663	normal		
Selenium, total	ug/L	MW-5	13	6	36			4.0000	4.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW-5	13	6	36			4.0000	4.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW-5	13	6	36			2.0000	2.0000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW-5	13	6	36			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, total	ug/L	MW-5	13	6	36	15.4385	20.1427	20.0000	20.0000	15.4385	15.4385	146.3659	normal		

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 4

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

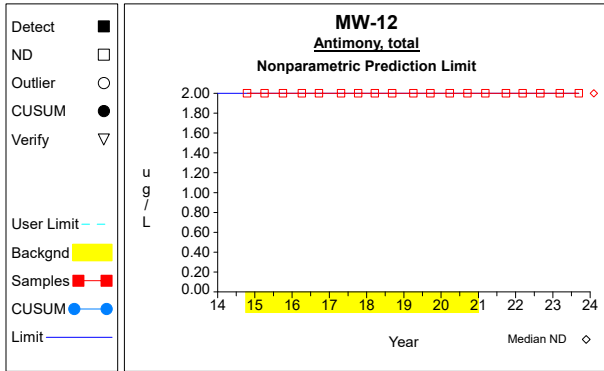
Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Zinc, total	ug/L	MW-12	09/07/2018	98.8000		10/16/2014-09/15/2020	13	0.6174
Copper, total	ug/L	MW-15R	10/16/2014	14.2000		10/16/2014-09/15/2020	13	0.6174
Nickel, total	ug/L	MW-15R	10/16/2014	15.0000		10/16/2014-09/15/2020	13	0.6425
Nickel, total	ug/L	MW-15R	03/21/2018	20.0000	< 20.0000	10/16/2014-09/15/2020	13	0.6425
Arsenic, total	ug/L	MW-20R	09/07/2018	5.9000		10/16/2014-09/15/2020	13	0.6174
Nickel, total	ug/L	MW-20R	03/21/2018	20.0000	< 20.0000	10/16/2014-09/15/2020	13	0.6174
Zinc, total	ug/L	MW-20R	09/07/2018	115.0000		10/16/2014-09/15/2020	13	0.6174
Cadmium, total	ug/L	MW-5	10/09/2017	2.6000		10/16/2014-09/15/2020	13	0.6174

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

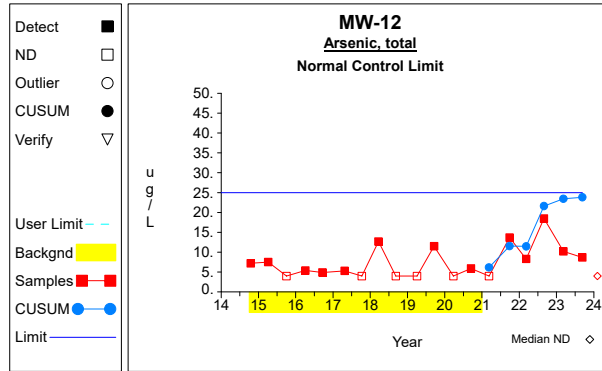
Date Range = Dates of the first and last measurements included in background at each well.

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.

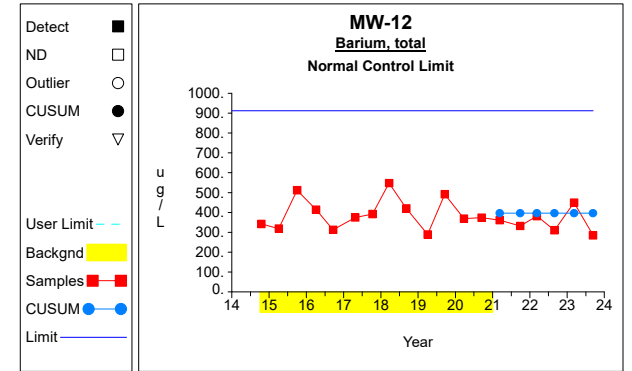
Intra-Well Control Charts / Prediction Limits



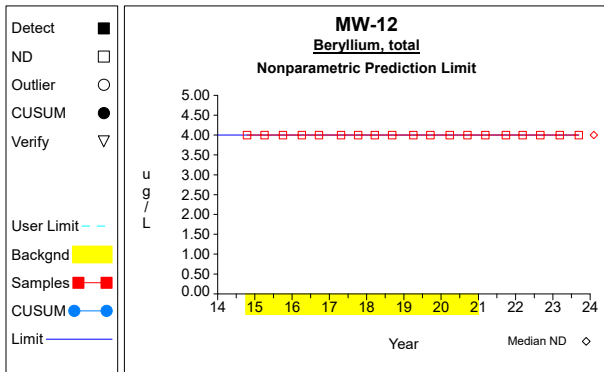
Graph 1



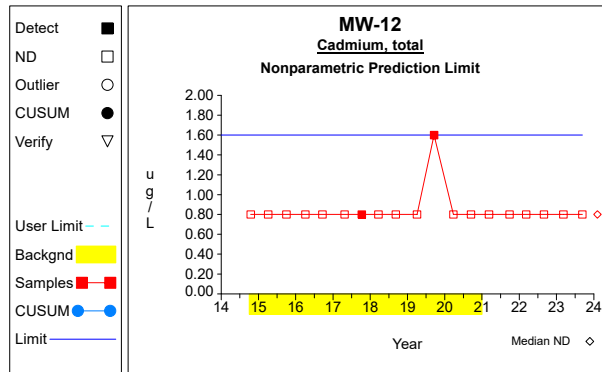
Graph 2



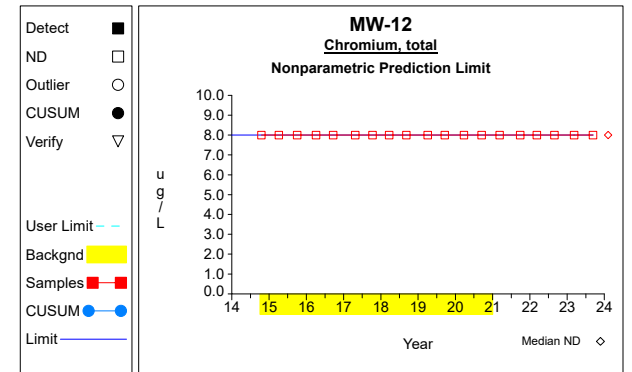
Graph 3



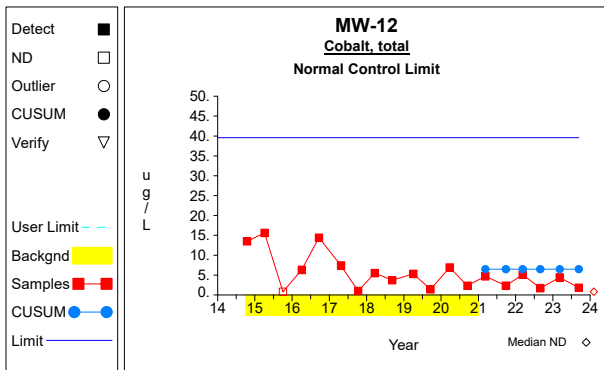
Graph 4



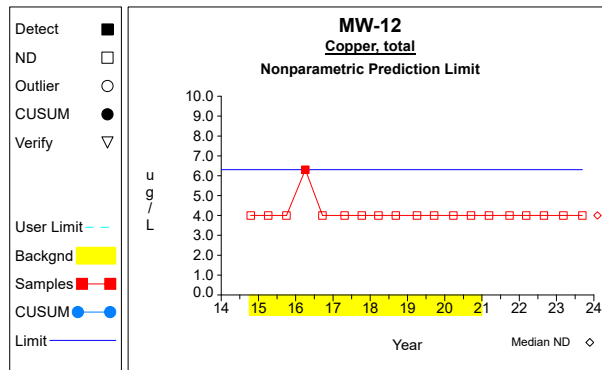
Graph 5



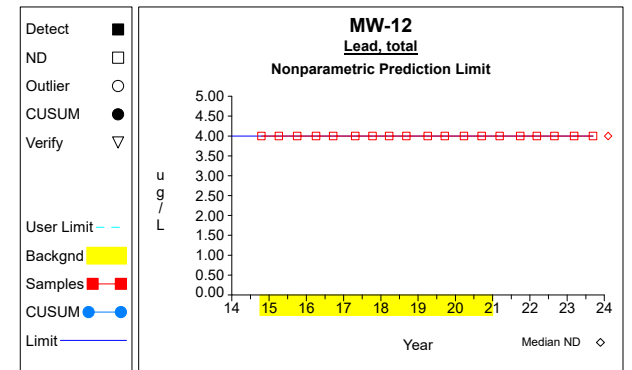
Graph 6



Graph 7

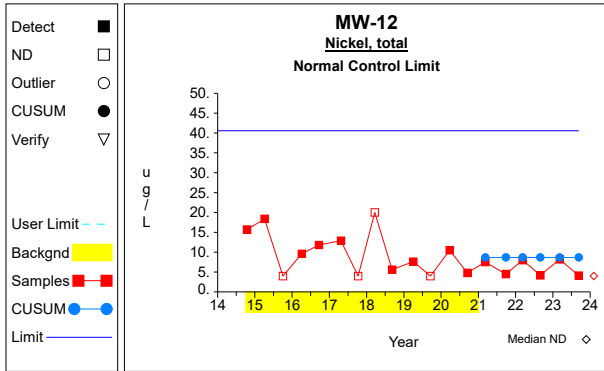


Graph 8

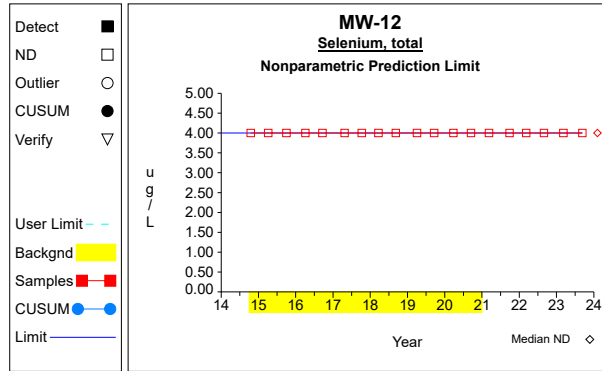


Graph 9

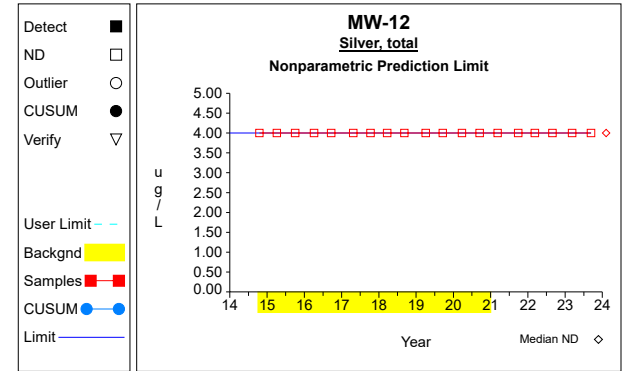
Intra-Well Control Charts / Prediction Limits



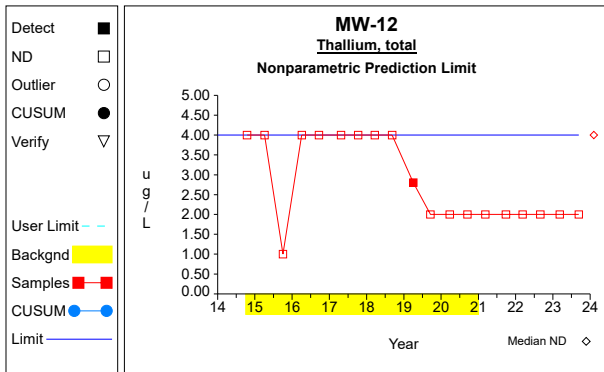
Graph 10



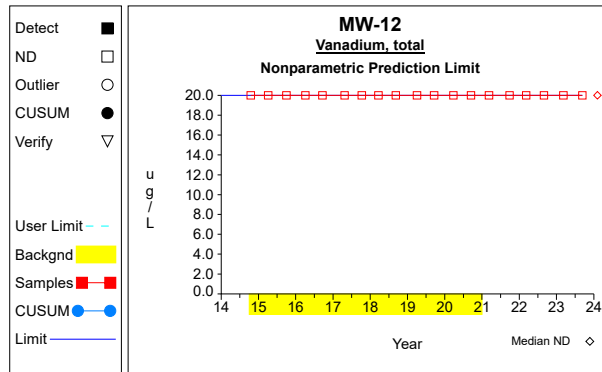
Graph 11



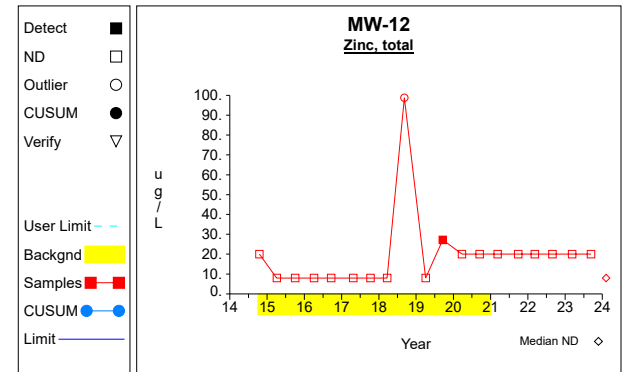
Graph 12



Graph 13

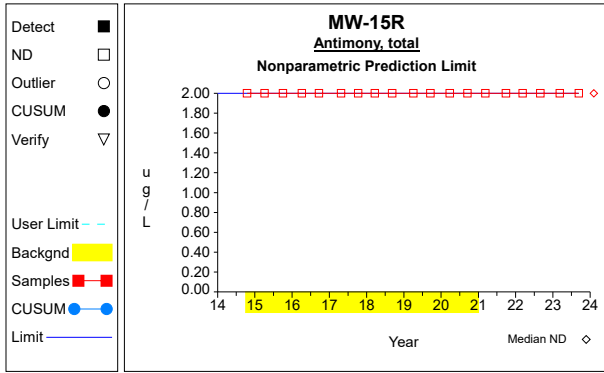


Graph 14

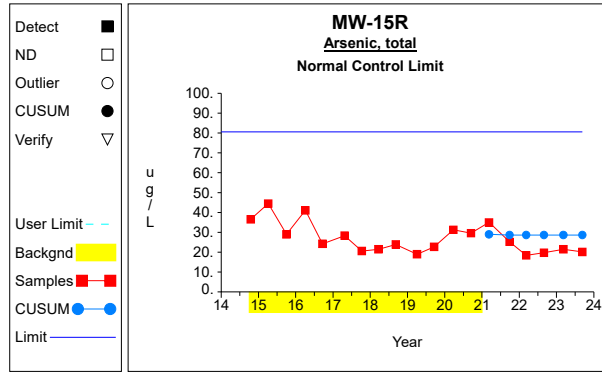


Graph 15

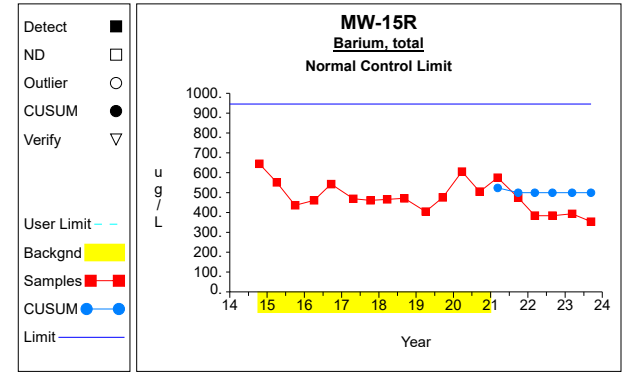
Intra-Well Control Charts / Prediction Limits



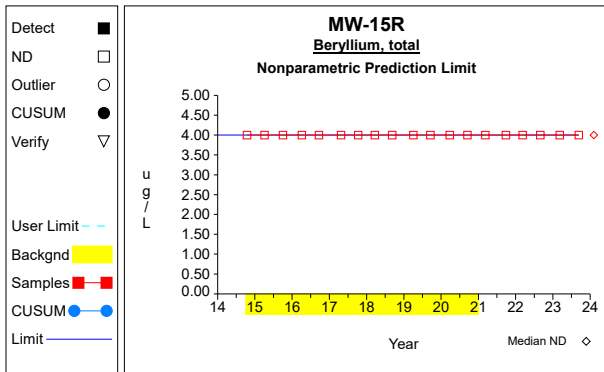
Graph 16



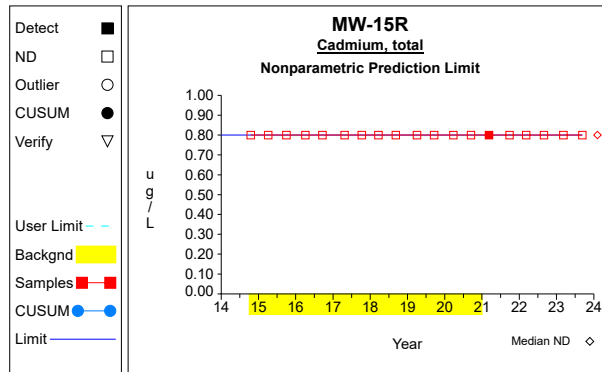
Graph 17



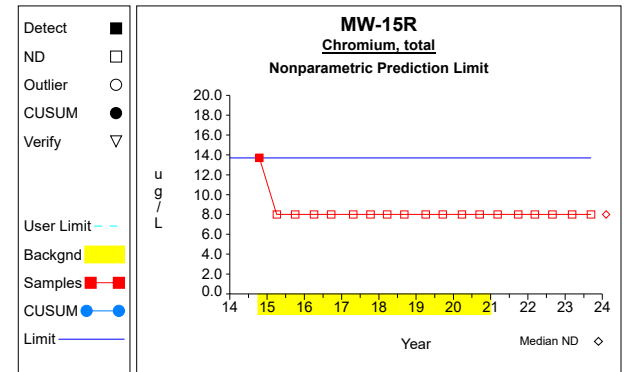
Graph 18



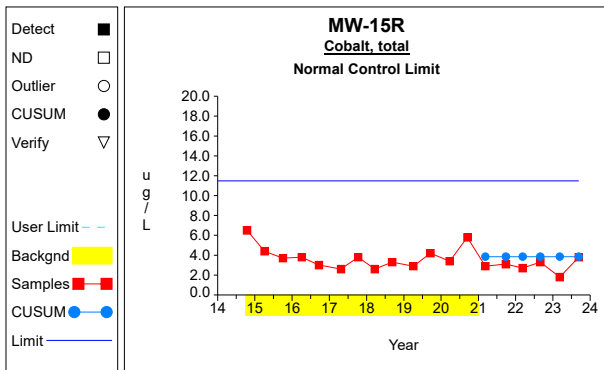
Graph 19



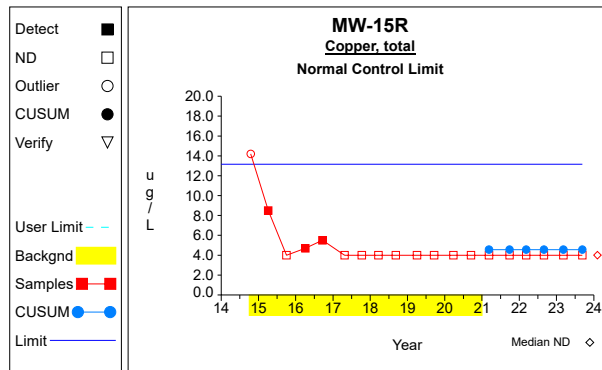
Graph 20



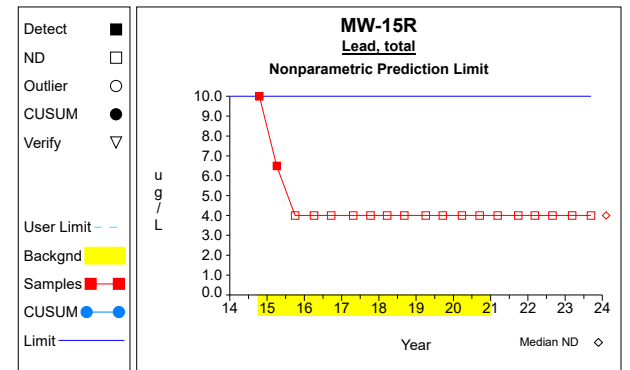
Graph 21



Graph 22

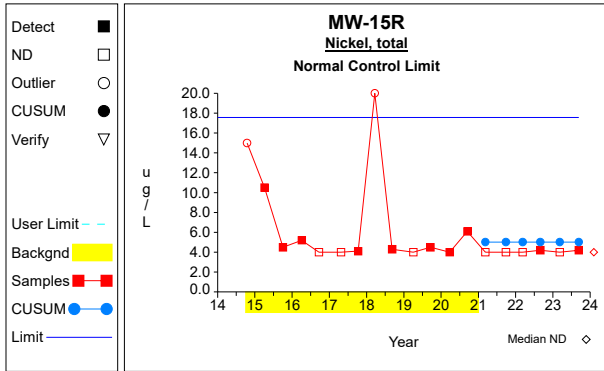


Graph 23

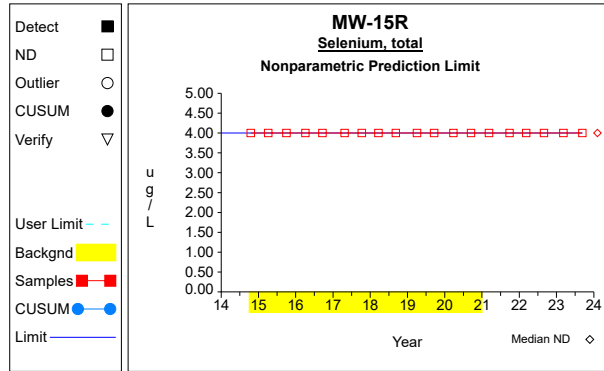


Graph 24

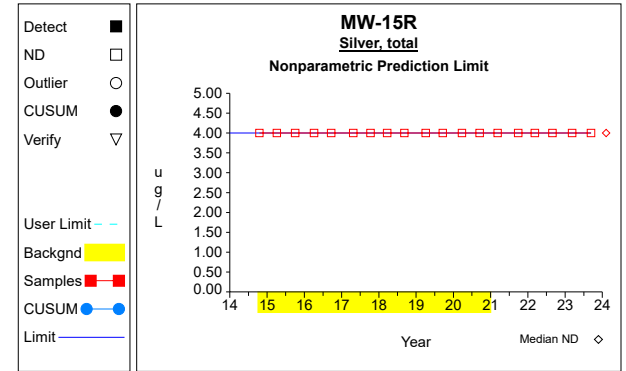
Intra-Well Control Charts / Prediction Limits



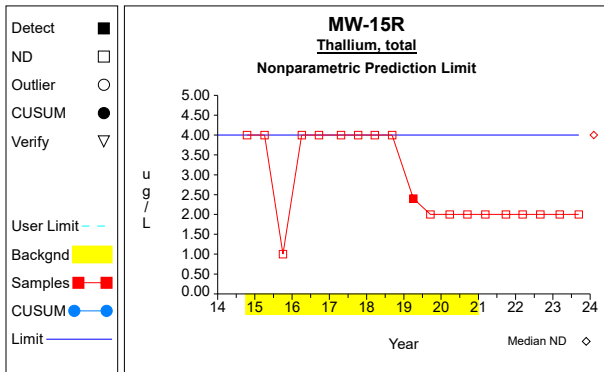
Graph 25



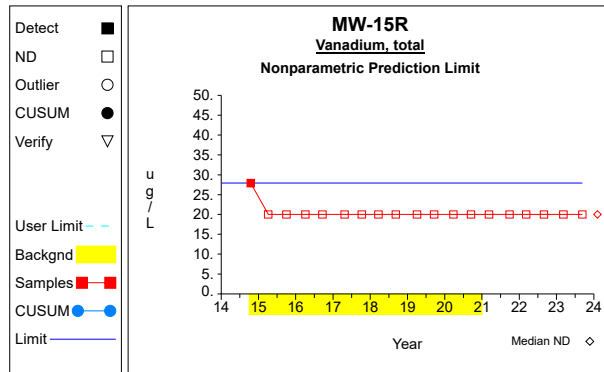
Graph 26



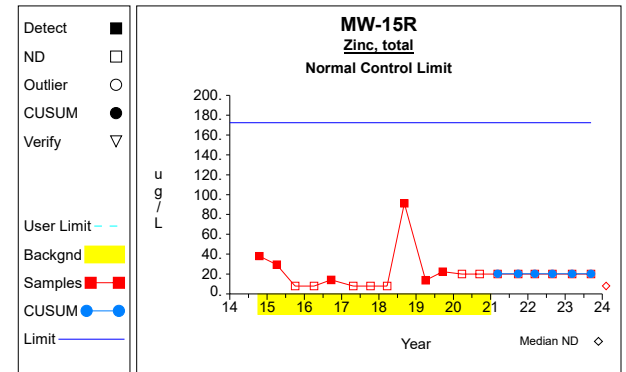
Graph 27



Graph 28

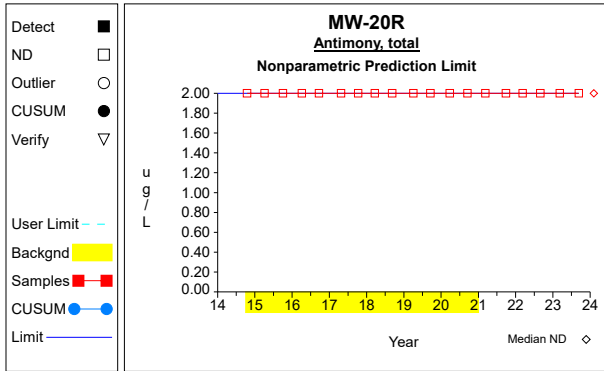


Graph 29

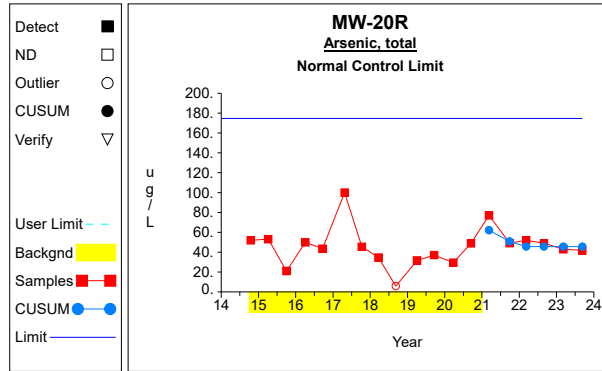


Graph 30

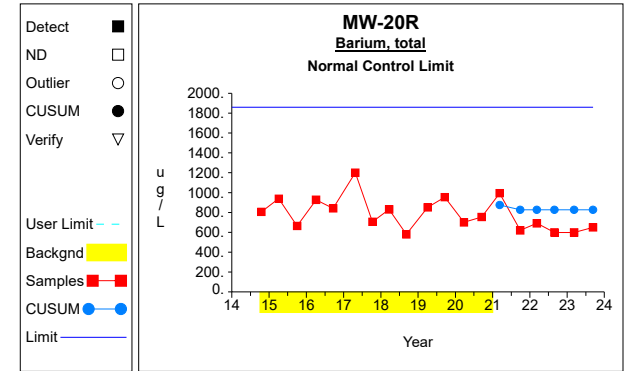
Intra-Well Control Charts / Prediction Limits



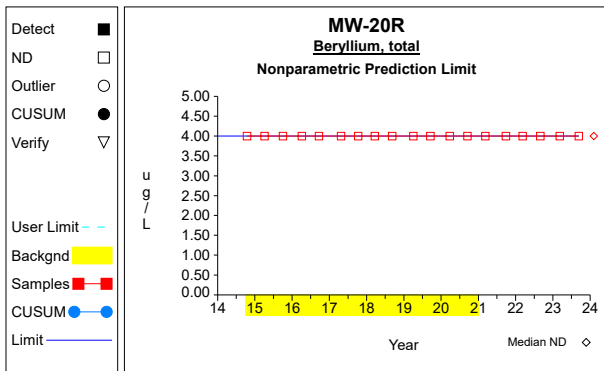
Graph 31



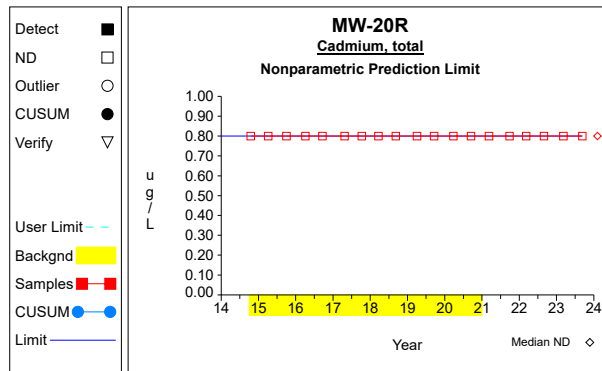
Graph 32



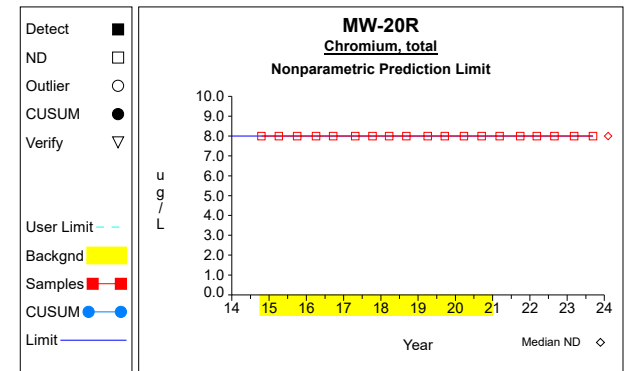
Graph 33



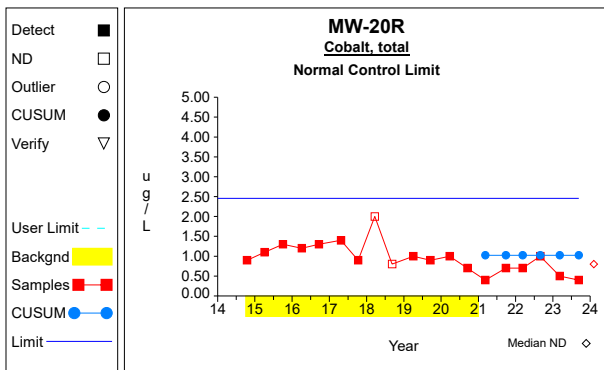
Graph 34



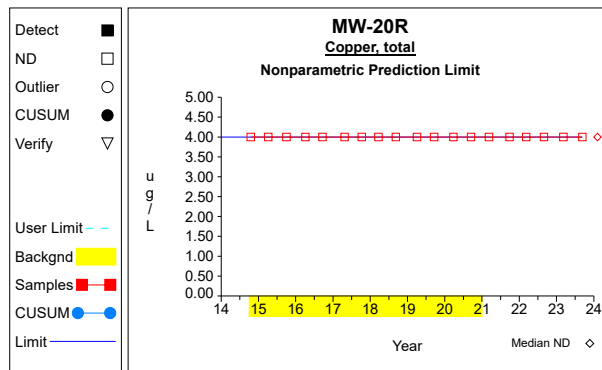
Graph 35



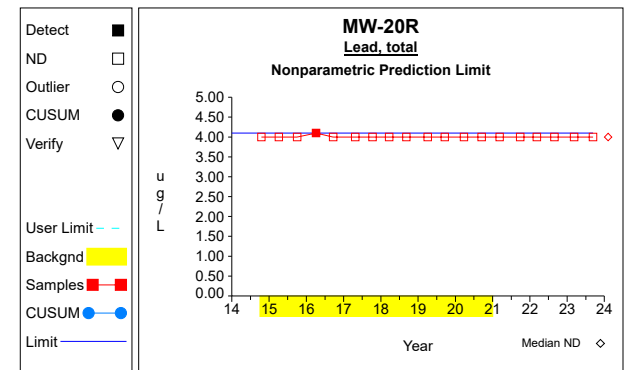
Graph 36



Graph 37

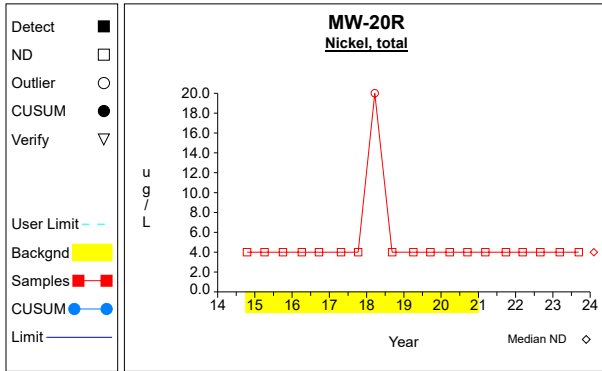


Graph 38

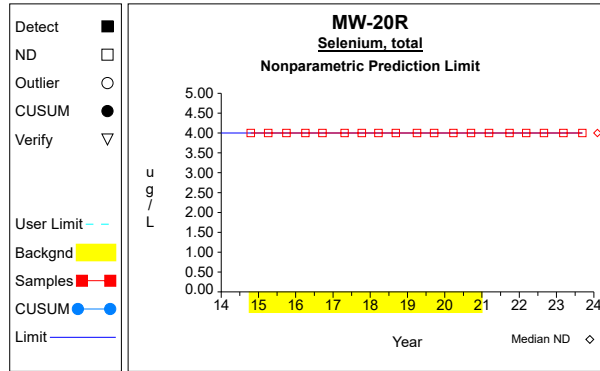


Graph 39

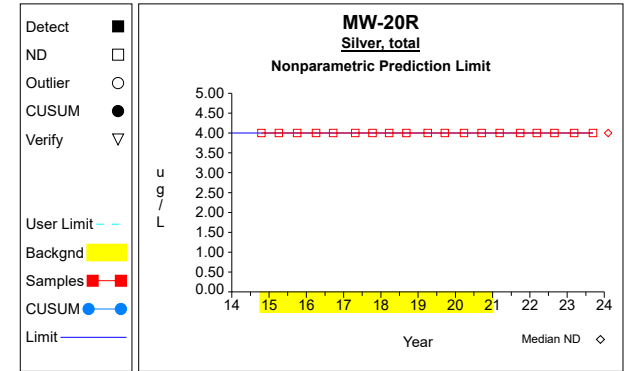
Intra-Well Control Charts / Prediction Limits



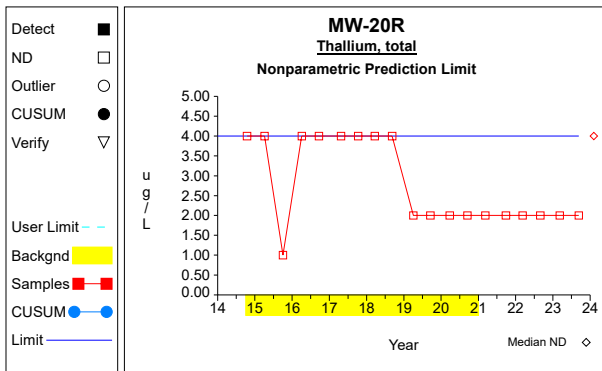
Graph 40



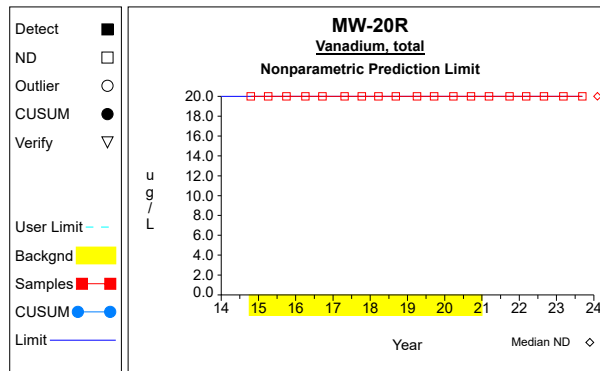
Graph 41



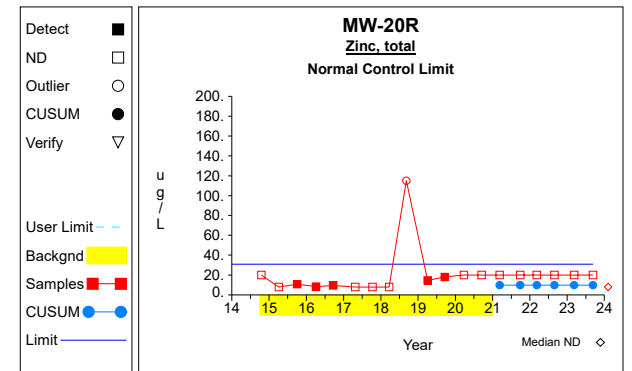
Graph 42



Graph 43

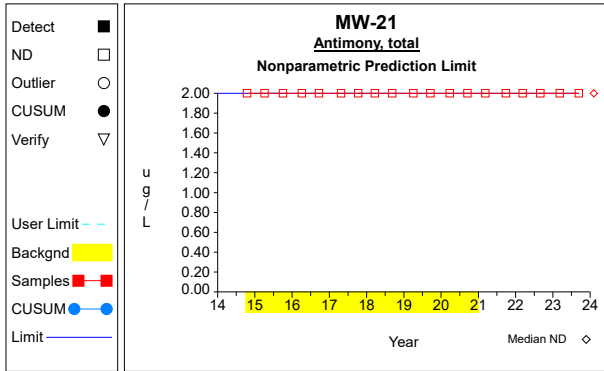


Graph 44

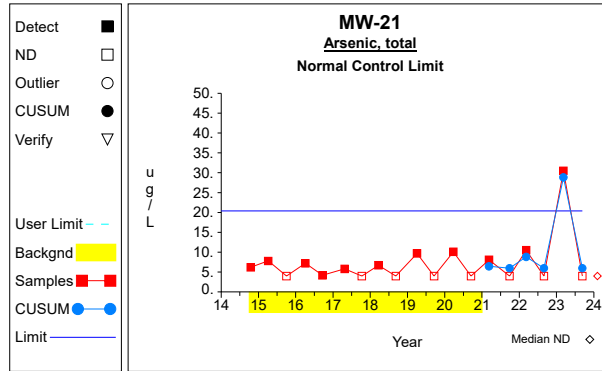


Graph 45

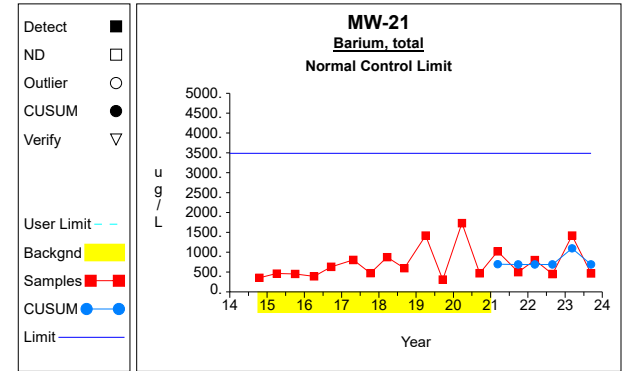
Intra-Well Control Charts / Prediction Limits



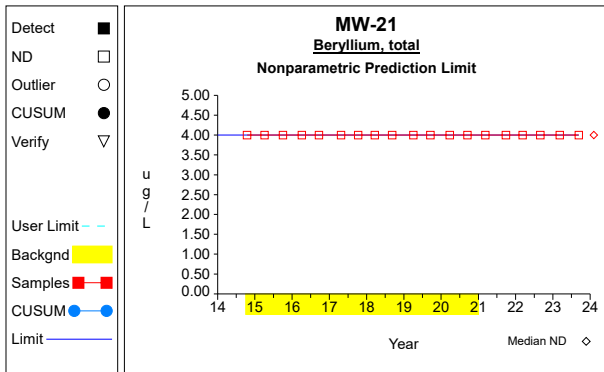
Graph 46



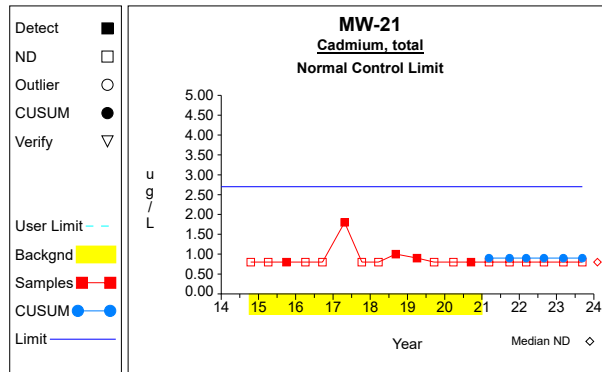
Graph 47



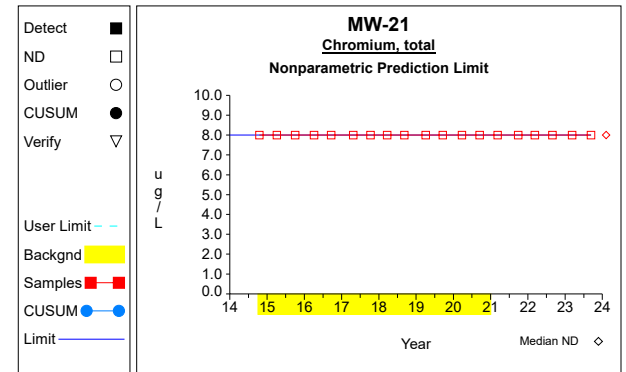
Graph 48



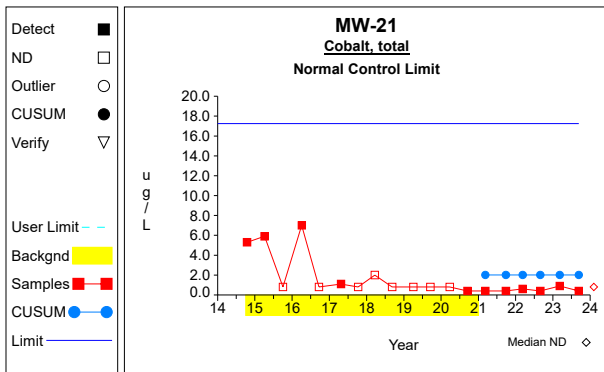
Graph 49



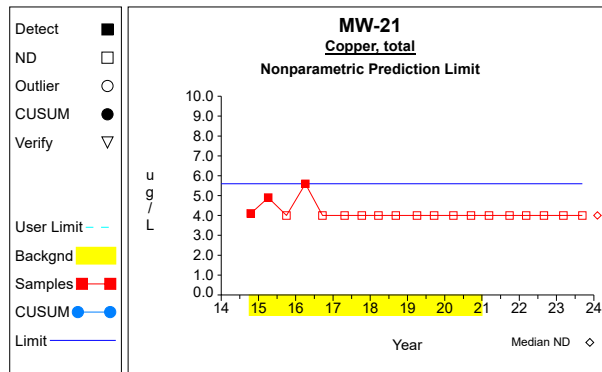
Graph 50



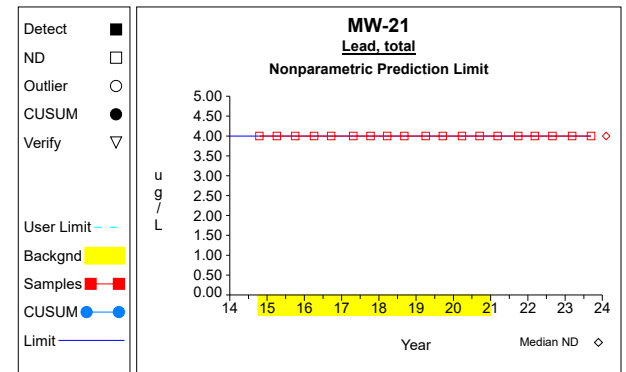
Graph 51



Graph 52

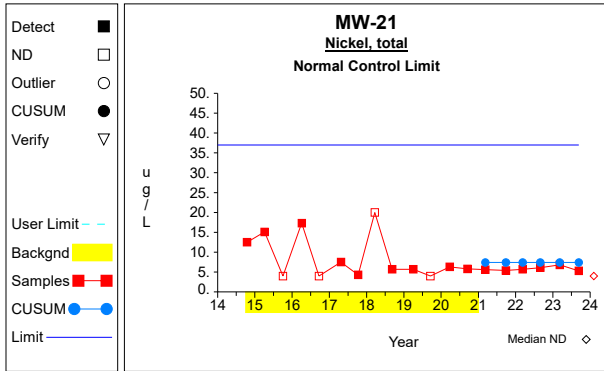


Graph 53

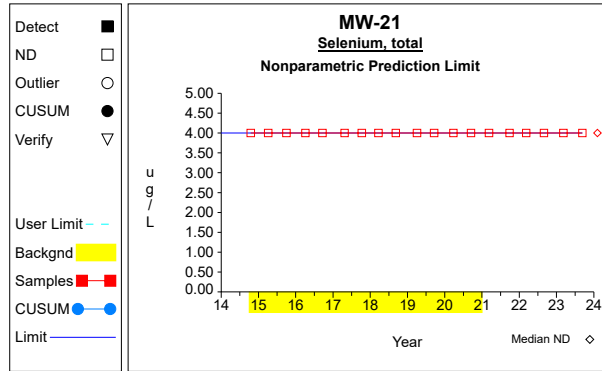


Graph 54

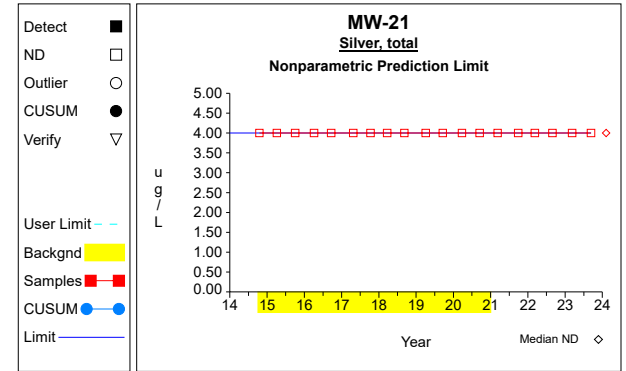
Intra-Well Control Charts / Prediction Limits



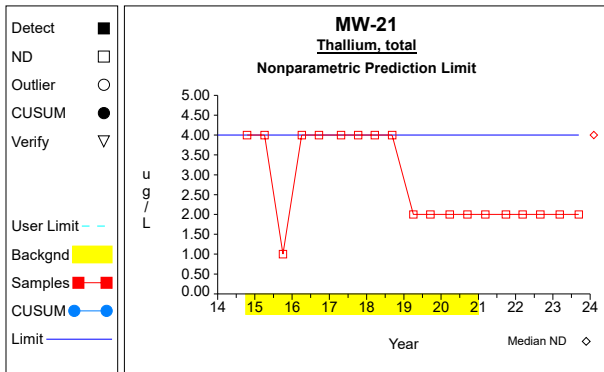
Graph 55



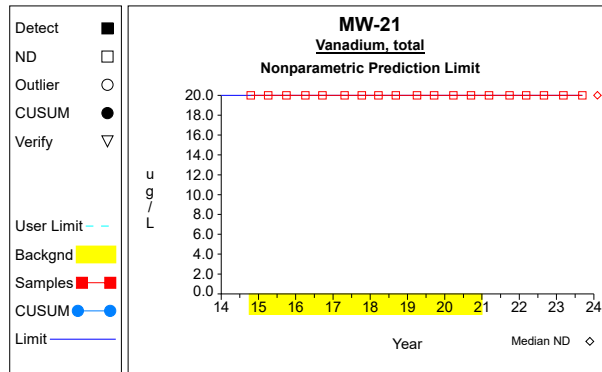
Graph 56



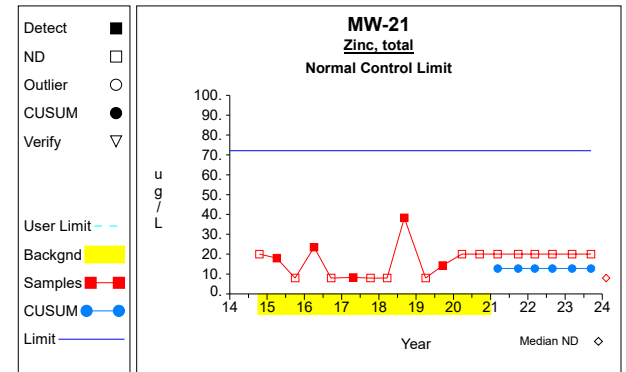
Graph 57



Graph 58

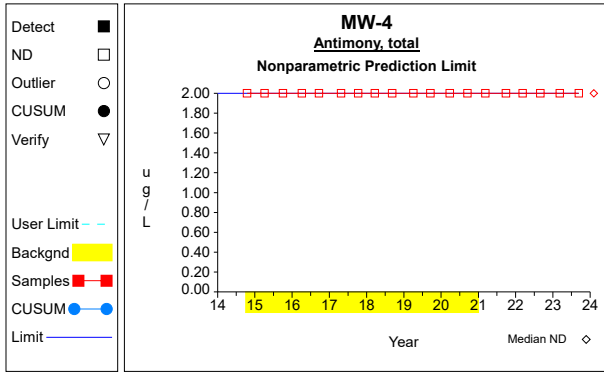


Graph 59

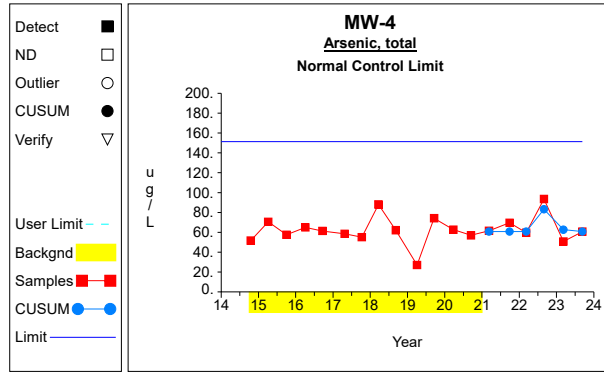


Graph 60

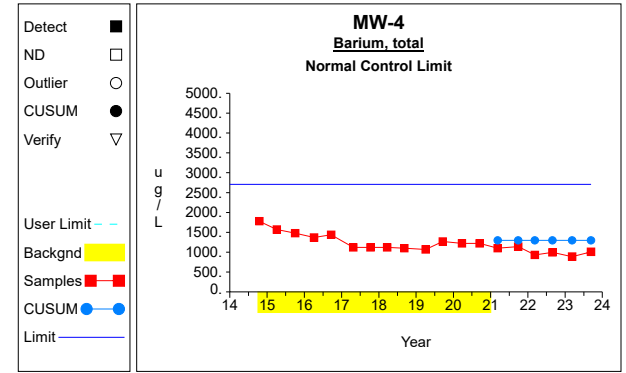
Intra-Well Control Charts / Prediction Limits



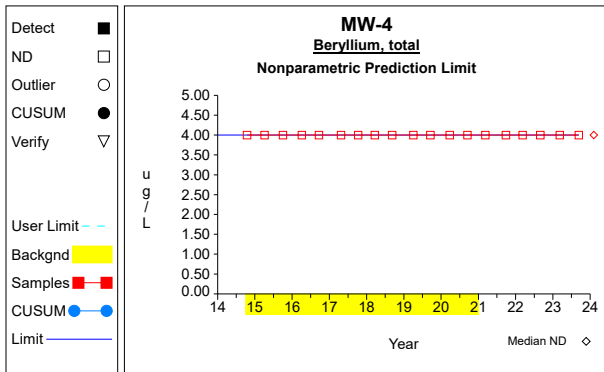
Graph 61



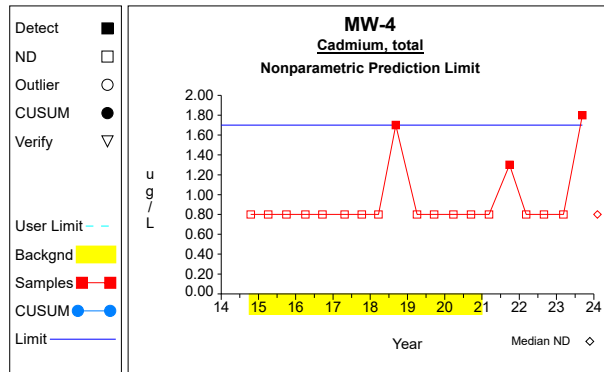
Graph 62



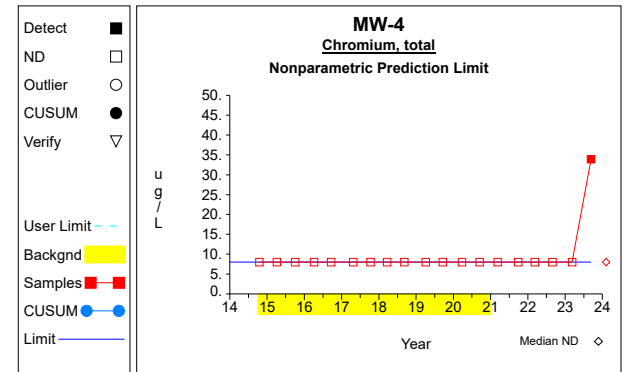
Graph 63



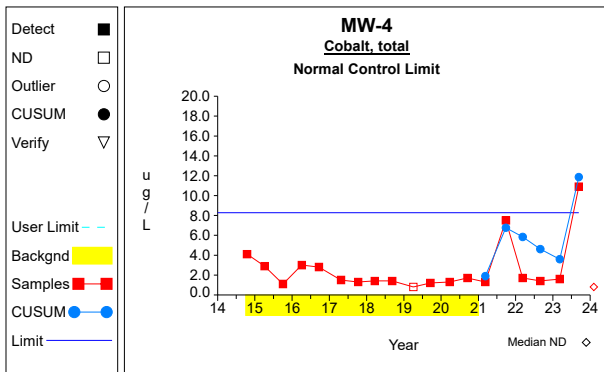
Graph 64



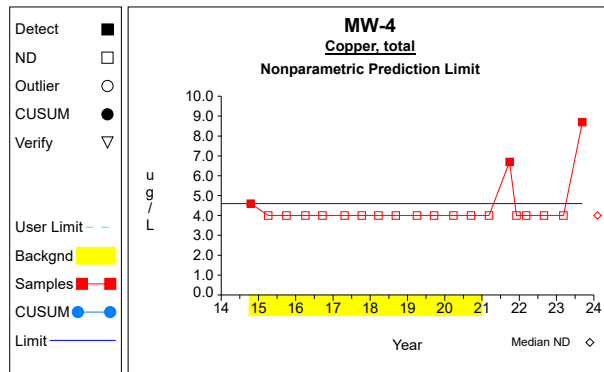
Graph 65



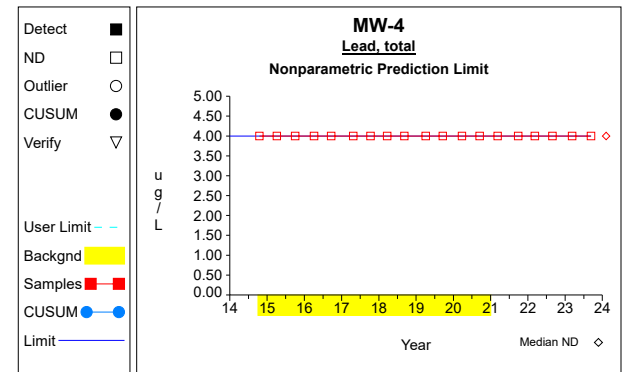
Graph 66



Graph 67

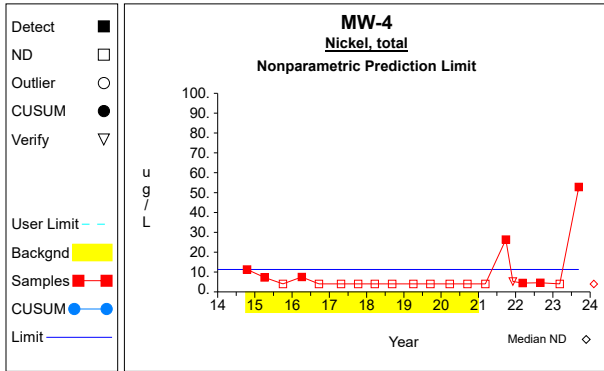


Graph 68

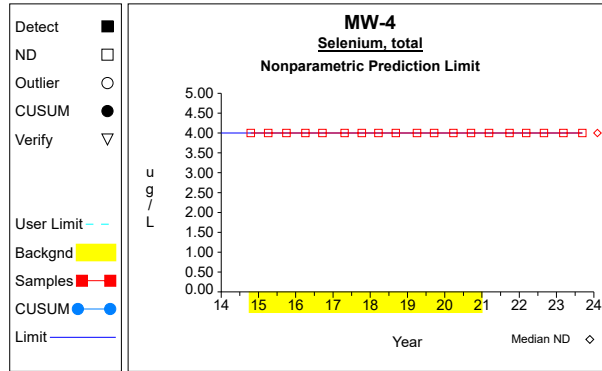


Graph 69

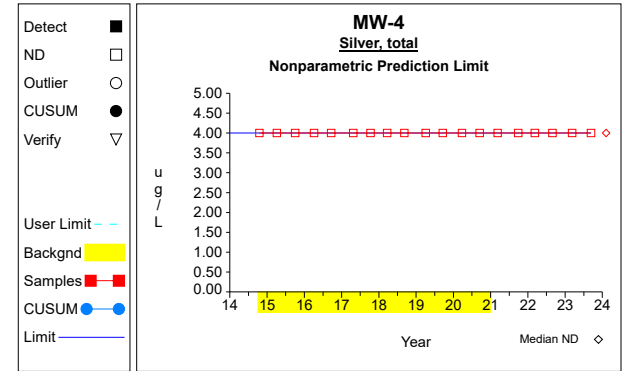
Intra-Well Control Charts / Prediction Limits



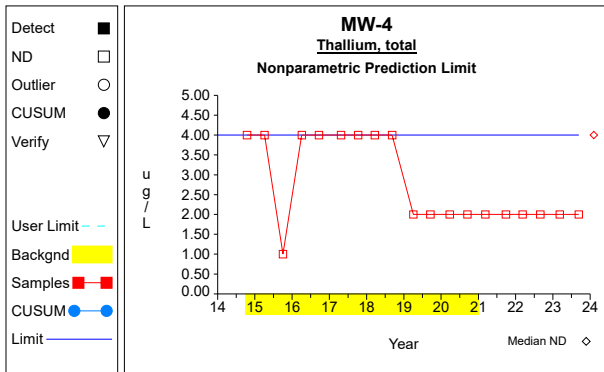
Graph 70



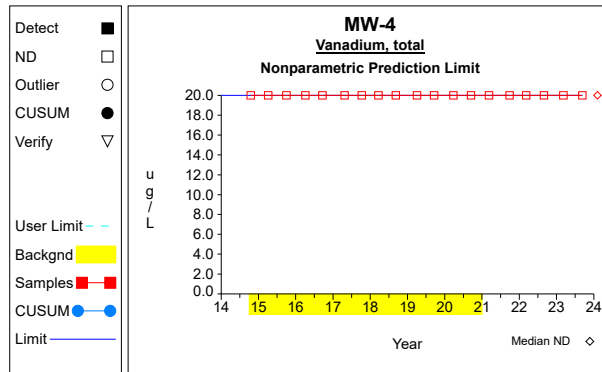
Graph 71



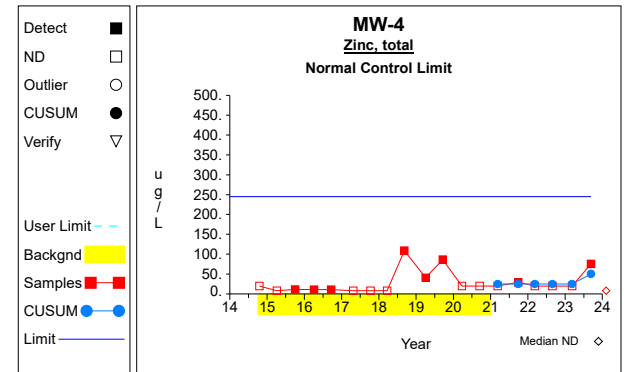
Graph 72



Graph 73

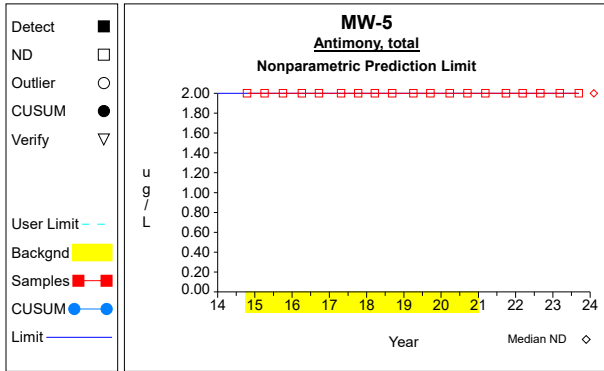


Graph 74

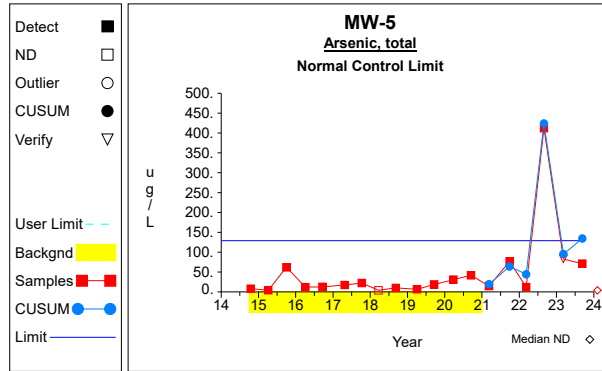


Graph 75

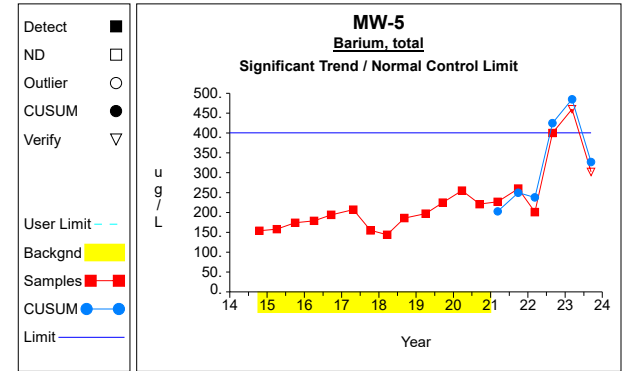
Intra-Well Control Charts / Prediction Limits



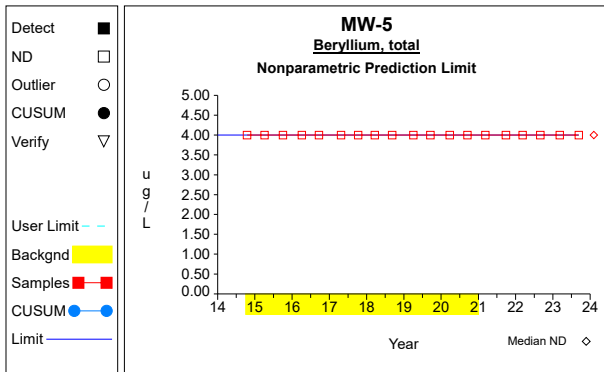
Graph 76



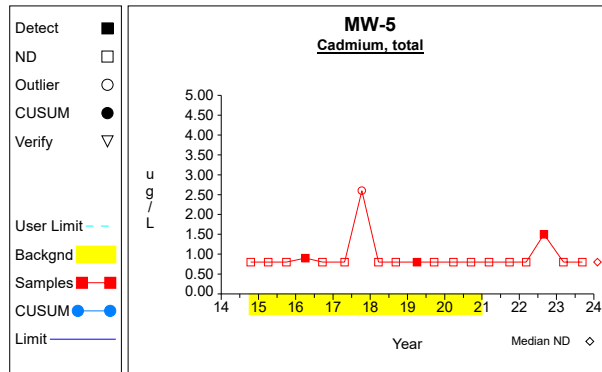
Graph 77



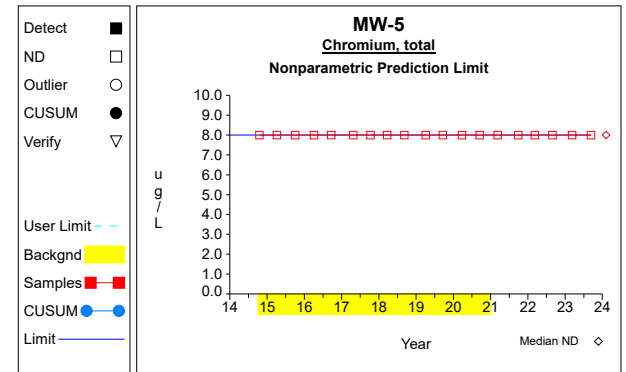
Graph 78



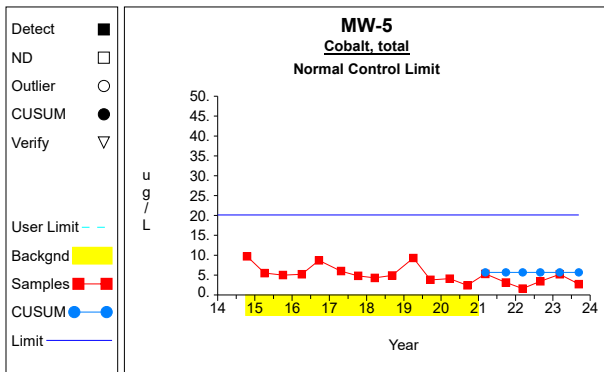
Graph 79



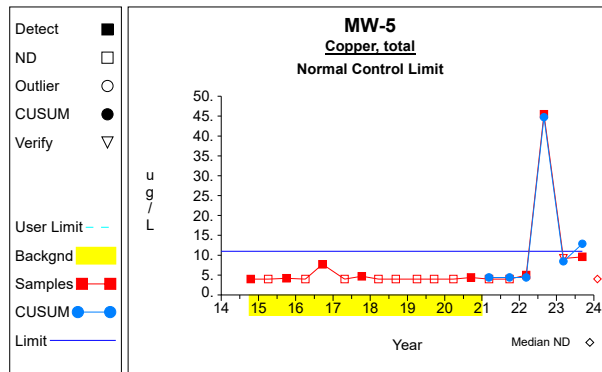
Graph 80



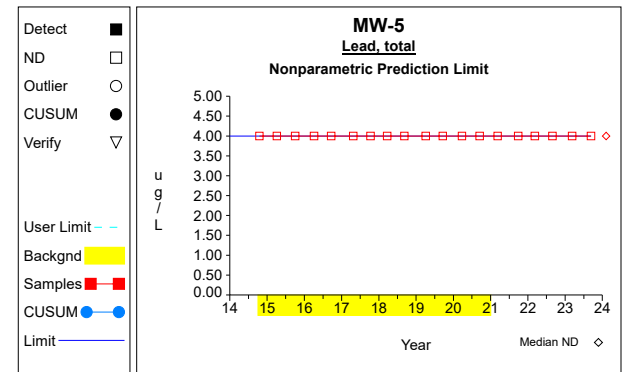
Graph 81



Graph 82

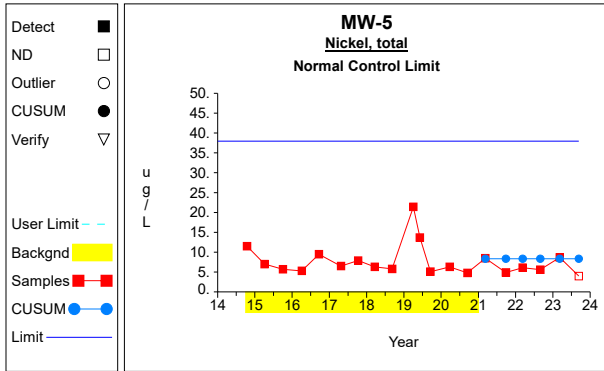


Graph 83

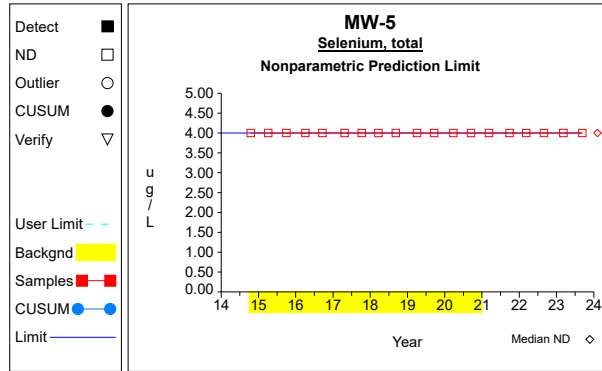


Graph 84

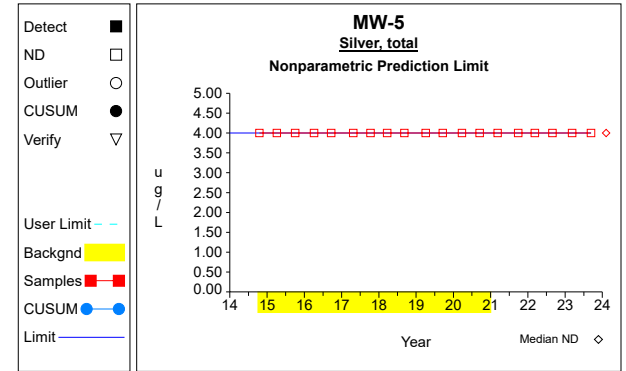
Intra-Well Control Charts / Prediction Limits



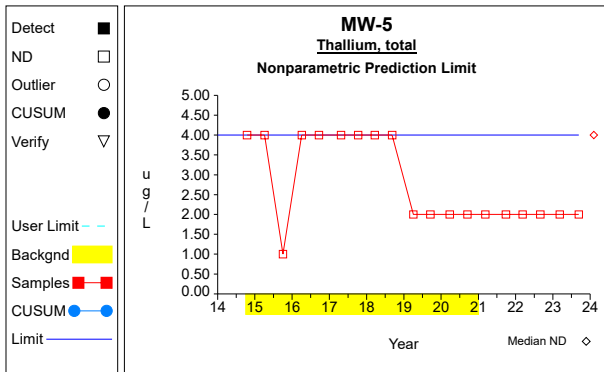
Graph 85



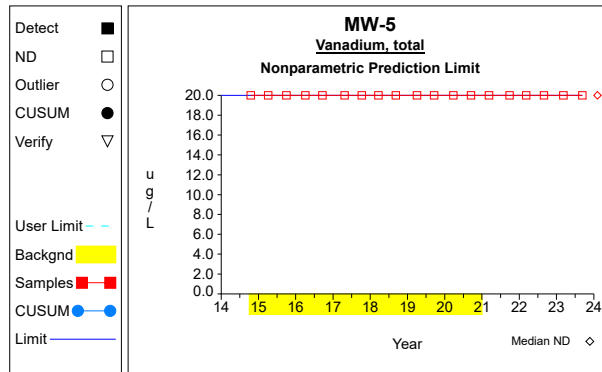
Graph 86



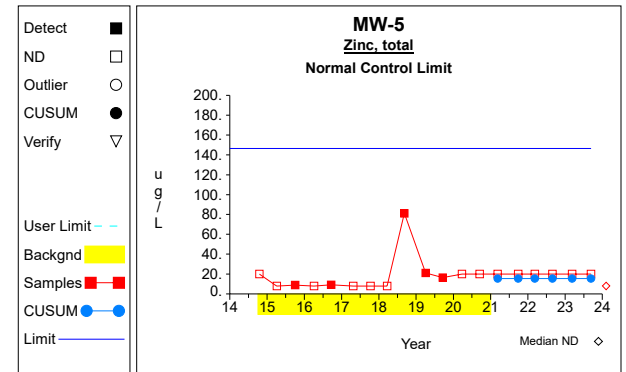
Graph 87



Graph 88

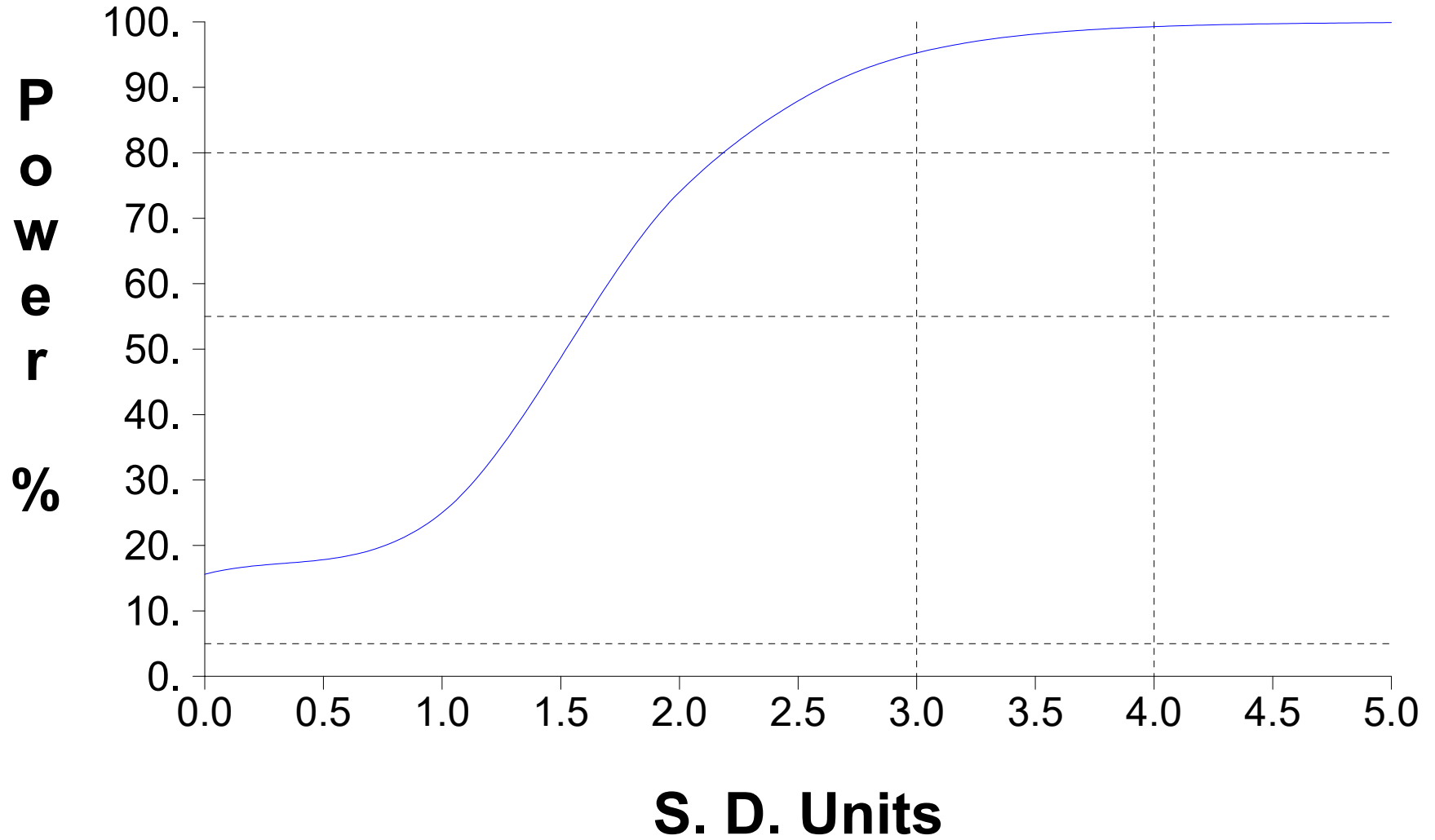


Graph 89



Graph 90

False Positive and False Negative Rates for Current Intra-Well Control Charts Monitoring Program



Attachment E

Summary Table of Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
2-butanone (mek)	GWD-1	4/09/2012		37.6	5.0	ug/L
Chloroethane	GWD-1	9/15/2020		1.6	1.0	ug/L
Trichlorofluoromethane	GWD-1	9/21/2011		4.1	1.0	ug/L
Vinyl chloride	GWD-1	3/07/2023		1.3	1.0	ug/L
Vinyl chloride	GWD-1	5/09/2023		1.5	1.0	ug/L
Vinyl chloride	GWD-1	6/07/2023		1.2	1.0	ug/L
Trichloroethylene	MW-10	7/07/1993		3.3	1.0	ug/L
Trichloroethylene	MW-10	10/12/1993		2.7	1.0	ug/L
Trichloroethylene	MW-10	1/24/1994		2.5	1.0	ug/L
Trichloroethylene	MW-10	4/26/1994		2.3	1.0	ug/L
Trichloroethylene	MW-10	7/26/1994		2.5	1.0	ug/L
1,1-dichloroethane	MW-12	6/23/2008		1.0	1.0	ug/L
1,1-dichloroethane	MW-12	12/13/2008		1.2	1.0	ug/L
1,1-dichloroethane	MW-12	9/17/2009		1.0	1.0	ug/L
Acetone	MW-12	10/09/2017		12.9	10.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-12	4/05/2010		9	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-12	9/20/2016		10	8	ug/L
Chloroethane	MW-12	4/23/2008		1.5	1.0	ug/L
Chloroethane	MW-12	6/23/2008		2.1	1.0	ug/L
Chloroethane	MW-12	12/13/2008		2.4	1.0	ug/L
Chloroethane	MW-12	3/04/2009		1.0	1.0	ug/L
Chloroethane	MW-12	11/06/2009		1.0	1.0	ug/L
Chloroethane	MW-12	4/05/2010		1.5	1.0	ug/L
Chloroethane	MW-12	9/15/2020		1.5	1.0	ug/L
Acetone	MW-15R	4/26/2013		49.1	10.0	ug/L
Acetone	MW-15R	10/09/2017		10.4	10.0	ug/L
Chloromethane	MW-15R	10/09/2017		2	1	ug/L
Dichlorodifluoromethane	MW-15R	4/04/2016		1	1	ug/L
Toluene	MW-15R	4/26/2013		7	1	ug/L
2-butanone (mek)	MW-16	9/18/2019		35	5	ug/L
Acetone	MW-16	4/23/2008		40.6	10.0	ug/L
Acetone	MW-16	6/23/2008		15.4	10.0	ug/L
Acetone	MW-16	8/13/2008		149.0	10.0	ug/L
Acetone	MW-16	10/02/2008		77.3	10.0	ug/L
Acetone	MW-16	12/13/2008		91.6	10.0	ug/L
Acetone	MW-16	3/04/2009		47.2	10.0	ug/L
Acetone	MW-16	9/17/2009		170.0	10.0	ug/L
Acetone	MW-16	11/06/2009		89.9	10.0	ug/L
Acetone	MW-16	4/05/2010		164.0	10.0	ug/L
Acetone	MW-16	10/08/2010		45.8	10.0	ug/L
Acetone	MW-16	4/13/2011		72.1	10.0	ug/L
Acetone	MW-16	9/22/2011		107.0	10.0	ug/L
Acetone	MW-16	4/09/2012		27.0	10.0	ug/L
Acetone	MW-16	9/26/2013		26.0	10.0	ug/L
Acetone	MW-16	4/10/2014		61.5	10.0	ug/L
Acetone	MW-16	10/16/2014		124.0	10.0	ug/L
Acetone	MW-16	4/04/2015		14.1	10.0	ug/L
Acetone	MW-16	10/01/2015		13.1	10.0	ug/L
Acetone	MW-16	9/20/2016		26.8	10.0	ug/L
Acetone	MW-16	4/24/2017		134.0	10.0	ug/L
Acetone	MW-16	10/09/2017		17.0	10.0	ug/L
Acetone	MW-16	3/21/2018		24.5	10.0	ug/L
Acetone	MW-16	9/07/2018		72.3	10.0	ug/L
Acetone	MW-16	4/02/2019		34.2	10.0	ug/L
Acetone	MW-16	9/18/2019		196.0	50.0	ug/L
Acetone	MW-16	3/25/2020		51.2	10.0	ug/L
Acetone	MW-16	9/15/2020		109.0	10.0	ug/L
Acetone	MW-16	3/08/2021		1140.0	50.0	ug/L
Benzene	MW-16	4/05/2010		1.1	1.0	ug/L
Benzene	MW-16	9/22/2011		1.2	1.0	ug/L
Chloroethane	MW-16	4/23/2008		2.0	1.0	ug/L
Chloroethane	MW-16	6/23/2008		1.7	1.0	ug/L
Chloroethane	MW-16	8/13/2008		2.0	1.0	ug/L
Chloroethane	MW-16	12/13/2008		1.8	1.0	ug/L
Chloroethane	MW-16	3/04/2009		1.3	1.0	ug/L
Chloroethane	MW-16	11/06/2009		2.2	1.0	ug/L
Chloroethane	MW-16	4/05/2010		2.1	1.0	ug/L
Chloroethane	MW-16	9/22/2011		2.3	1.0	ug/L
Chloroethane	MW-16	4/09/2012		1.1	1.0	ug/L
Chloroethane	MW-16	4/10/2014		1.0	1.0	ug/L
Chloroethane	MW-16	4/04/2016		1.0	1.0	ug/L
Chloromethane	MW-16	10/09/2017		2.3	1.0	ug/L
Dichlorodifluoromethane	MW-16	4/05/2010		1.2	1.0	ug/L
Dichlorodifluoromethane	MW-16	9/22/2011		1.0	1.0	ug/L
Dichlorodifluoromethane	MW-16	4/09/2012		1.2	1.0	ug/L
Dichlorodifluoromethane	MW-16	9/26/2013		1.2	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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Dichlorodifluoromethane	MW-16	4/04/2016		1.0	1.0	ug/L
Vinyl chloride	MW-16	4/23/2008		2.9	1.0	ug/L
Vinyl chloride	MW-16	6/23/2008		2.5	1.0	ug/L
Vinyl chloride	MW-16	8/13/2008		2.5	1.0	ug/L
Vinyl chloride	MW-16	10/02/2008		2.5	1.0	ug/L
Vinyl chloride	MW-16	12/13/2008		2.8	1.0	ug/L
Vinyl chloride	MW-16	3/04/2009		1.8	1.0	ug/L
Vinyl chloride	MW-16	11/06/2009		2.0	1.0	ug/L
Vinyl chloride	MW-16	4/05/2010		2.9	1.0	ug/L
Vinyl chloride	MW-16	10/08/2010		3.0	1.0	ug/L
Vinyl chloride	MW-16	4/13/2011		2.3	1.0	ug/L
Vinyl chloride	MW-16	9/22/2011		1.4	1.0	ug/L
Vinyl chloride	MW-16	4/09/2012		1.0	1.0	ug/L
Vinyl chloride	MW-16	9/05/2012		1.4	1.0	ug/L
Vinyl chloride	MW-16	9/26/2013		1.1	1.0	ug/L
Acetone	MW-18	4/14/2011		26.2	10.0	ug/L
Acetone	MW-18	4/26/2013		17.2	10.0	ug/L
Acetone	MW-18	9/26/2013		10.3	10.0	ug/L
Acetone	MW-18	9/20/2016		11.7	10.0	ug/L
Acetone	MW-18	10/09/2017		16.8	10.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-20R	4/04/2016		25	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-20R	9/07/2018		7	6	ug/L
Chloroethane	MW-21	4/05/2010		2.1	1.0	ug/L
Chloroethane	MW-21	5/24/2010		1.3	1.0	ug/L
Chloroethane	MW-21	4/14/2011		2.5	1.0	ug/L
Chloroethane	MW-21	9/21/2011		2.0	1.0	ug/L
Chloroethane	MW-21	4/09/2012		2.2	1.0	ug/L
Chloroethane	MW-21	9/05/2012		1.4	1.0	ug/L
Chloroethane	MW-21	9/26/2013		1.4	1.0	ug/L
Chloroethane	MW-21	4/10/2014		1.2	1.0	ug/L
Chloroethane	MW-21	10/16/2014		1.4	1.0	ug/L
Chloroethane	MW-21	4/04/2015		1.1	1.0	ug/L
Chloroethane	MW-21	10/01/2015		1.7	1.0	ug/L
Chloroethane	MW-21	4/04/2016		2.4	1.0	ug/L
Chloroethane	MW-21	9/20/2016		1.4	1.0	ug/L
Chloroethane	MW-21	4/24/2017		2.6	1.0	ug/L
Chloroethane	MW-21	10/09/2017		1.0	1.0	ug/L
Chloroethane	MW-21	9/07/2018		1.6	1.0	ug/L
Chloroethane	MW-21	4/02/2019		1.8	1.0	ug/L
Chloroethane	MW-21	9/18/2019		1.7	1.0	ug/L
Chloroethane	MW-21	3/25/2020		1.2	1.0	ug/L
Chloroethane	MW-21	3/08/2021		1.3	1.0	ug/L
Chloroethane	MW-21	3/08/2022		1.0	1.0	ug/L
Chloroethane	MW-21	3/07/2023		1.4	1.0	ug/L
Chloromethane	MW-21	4/05/2010		2.7	1.0	ug/L
Chloromethane	MW-21	4/26/2013		1.4	1.0	ug/L
Dichlorodifluoromethane	MW-21	4/04/2016		1	1	ug/L
Acetone	MW-22	11/06/2009		14.9	10.0	ug/L
Acetone	MW-22	9/26/2013		10.1	10.0	ug/L
Acetone	MW-22	10/09/2017		14.6	10.0	ug/L
Benzene	MW-22	11/06/2009		1.8	1.0	ug/L
Benzene	MW-22	5/24/2010		1.4	1.0	ug/L
Benzene	MW-22	8/16/2010		2.0	1.0	ug/L
Benzene	MW-22	4/14/2011		1.7	1.0	ug/L
Benzene	MW-22	9/22/2011		1.6	1.0	ug/L
Benzene	MW-22	4/09/2012		2.2	1.0	ug/L
Benzene	MW-22	4/26/2013		1.3	1.0	ug/L
Benzene	MW-22	9/26/2013		1.2	1.0	ug/L
Benzene	MW-22	4/04/2015		1.6	1.0	ug/L
Benzene	MW-22	4/24/2017		1.7	1.0	ug/L
Benzene	MW-22	3/21/2018		2.3	1.0	ug/L
Benzene	MW-22	9/07/2018		1.5	1.0	ug/L
Benzene	MW-22	4/02/2019		2.2	1.0	ug/L
Benzene	MW-22	9/18/2019		2.3	1.0	ug/L
Benzene	MW-22	3/25/2020		2.4	1.0	ug/L
Benzene	MW-22	9/15/2020		1.5	1.0	ug/L
Benzene	MW-22	3/08/2021		1.4	1.0	ug/L
Benzene	MW-22	3/08/2022		1.0	1.0	ug/L
Benzene	MW-22	3/07/2023		2.0	1.0	ug/L
Bromomethane	MW-22	10/15/2014		2.4	1.0	ug/L
Chloroethane	MW-22	11/06/2009		5.4	1.0	ug/L
Chloroethane	MW-22	4/05/2010		5.4	1.0	ug/L
Chloroethane	MW-22	5/24/2010		4.6	1.0	ug/L
Chloroethane	MW-22	8/16/2010		4.2	1.0	ug/L
Chloroethane	MW-22	4/14/2011		3.8	1.0	ug/L
Chloroethane	MW-22	9/22/2011		2.7	1.0	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Chloroethane	MW-22	4/09/2012		3.3	1.0	ug/L
Chloroethane	MW-22	9/26/2013		1.4	1.0	ug/L
Chloroethane	MW-22	10/15/2014		1.0	1.0	ug/L
Chloroethane	MW-22	4/04/2015		1.1	1.0	ug/L
Chloroethane	MW-22	4/24/2017		1.5	1.0	ug/L
Chloroethane	MW-22	9/15/2020		1.7	1.0	ug/L
Chloroethane	MW-22	3/08/2021		1.2	1.0	ug/L
Chloromethane	MW-22	4/26/2013		1.1	1.0	ug/L
Hexachlorobenzene	MW-22	3/08/2021		.08	.05	ug/L
Methyl iodide	MW-22	10/15/2014		11.8	1.0	ug/L
Toluene	MW-22	4/24/2017		1.2	1.0	ug/L
Toluene	MW-22	3/21/2018		1.5	1.0	ug/L
Vinyl chloride	MW-22	11/06/2009		5.2	1.0	ug/L
Vinyl chloride	MW-22	4/05/2010		2.0	1.0	ug/L
Vinyl chloride	MW-22	5/24/2010		3.8	1.0	ug/L
Vinyl chloride	MW-22	10/08/2010		6.6	1.0	ug/L
Vinyl chloride	MW-22	4/14/2011		4.1	1.0	ug/L
Vinyl chloride	MW-22	9/22/2011		3.2	1.0	ug/L
Vinyl chloride	MW-22	4/09/2012		4.7	1.0	ug/L
Vinyl chloride	MW-22	9/26/2013		1.7	1.0	ug/L
Vinyl chloride	MW-22	4/04/2015		1.6	1.0	ug/L
Vinyl chloride	MW-22	10/01/2015		1.0	1.0	ug/L
Vinyl chloride	MW-22	4/24/2017		2.9	1.0	ug/L
Vinyl chloride	MW-22	9/07/2018		1.5	1.0	ug/L
Vinyl chloride	MW-22	4/02/2019		1.4	1.0	ug/L
Vinyl chloride	MW-22	9/18/2019		1.8	1.0	ug/L
Vinyl chloride	MW-22	3/25/2020		1.8	1.0	ug/L
Vinyl chloride	MW-22	9/15/2020		1.3	1.0	ug/L
Vinyl chloride	MW-22	3/08/2021		1.1	1.0	ug/L
Vinyl chloride	MW-22	3/07/2023		1.3	1.0	ug/L
1,1-dichloroethane	MW-23	9/21/2011		3.5	1.0	ug/L
1,1-dichloroethane	MW-23	9/05/2012		1.7	1.0	ug/L
Chloroethane	MW-23	9/21/2011		1.8	1.0	ug/L
Acetone	MW-24	4/26/2013		100.0	10.0	ug/L
Acetone	MW-24	10/16/2014		58.4	10.0	ug/L
Acetone	MW-24	3/25/2020		13.8	10.0	ug/L
Acetone	MW-24	3/08/2021		62.4	10.0	ug/L
Chloroethane	MW-26	4/24/2017		1.6	1.0	ug/L
1,1-dichloroethane	MW-4	4/23/2008		1.2	1.0	ug/L
1,1-dichloroethane	MW-4	12/13/2008		1.3	1.0	ug/L
1,1-dichloroethane	MW-4	9/17/2009		1.2	1.0	ug/L
1,1-dichloroethane	MW-4	4/05/2010		1.0	1.0	ug/L
1,1-dichloroethane	MW-4	4/04/2016		1.0	1.0	ug/L
1,1-dichloroethane	MW-4	4/24/2017		1.7	1.0	ug/L
1,1-dichloroethane	MW-4	10/09/2017		2.6	1.0	ug/L
1,1-dichloroethane	MW-4	3/21/2018		2.6	1.0	ug/L
1,1-dichloroethane	MW-4	9/15/2020		1.9	1.0	ug/L
1,1-dichloroethane	MW-4	9/28/2021		1.1	1.0	ug/L
1,2-dichloroethane	MW-4	7/07/1993		7.3	1.0	ug/L
1,2-dichloroethane	MW-4	10/12/1993		3.7	1.0	ug/L
1,2-dichloroethane	MW-4	1/24/1994		2.4	1.0	ug/L
1,2-dichloroethane	MW-4	10/13/1994		4.0	1.0	ug/L
1,2-dichloroethane	MW-4	4/25/1995		1.6	1.0	ug/L
1,2-dichloroethane	MW-4	10/18/1995		3.3	1.0	ug/L
1,2-dichloroethane	MW-4	7/31/1996		2.7	1.0	ug/L
1,2-dichloroethane	MW-4	10/09/1996		2.0	1.0	ug/L
1,2-dichloroethane	MW-4	4/23/2008		1.0	1.0	ug/L
1,2-dichloropropane	MW-4	10/16/2014		1.2	1.0	ug/L
1,2-dichloropropane	MW-4	9/18/2019		1.6	1.0	ug/L
1,2-dichloropropane	MW-4	9/28/2021		1.4	1.0	ug/L
1,2-dichloropropane	MW-4	3/07/2023		1.1	1.0	ug/L
1,2-dichloropropane	MW-4	9/11/2023		1.0	1.0	ug/L
1,4-dichlorobenzene	MW-4	7/07/1993		1.6	1.0	ug/L
1,4-dichlorobenzene	MW-4	10/12/1993		1.1	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/23/2008		8.7	1.0	ug/L
1,4-dichlorobenzene	MW-4	6/23/2008		6.9	1.0	ug/L
1,4-dichlorobenzene	MW-4	8/13/2008		4.9	1.0	ug/L
1,4-dichlorobenzene	MW-4	10/02/2008		5.7	1.0	ug/L
1,4-dichlorobenzene	MW-4	12/13/2008		7.1	1.0	ug/L
1,4-dichlorobenzene	MW-4	3/04/2009		5.5	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/17/2009		6.0	1.0	ug/L
1,4-dichlorobenzene	MW-4	11/06/2009		5.3	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/05/2010		7.2	1.0	ug/L
1,4-dichlorobenzene	MW-4	10/08/2010		3.9	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/13/2011		7.2	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/22/2011		5.5	1.0	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,4-dichlorobenzene	MW-4	4/09/2012		5.2	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/05/2012		9.8	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/26/2013		5.0	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/10/2014		7.5	1.0	ug/L
1,4-dichlorobenzene	MW-4	10/16/2014		6.8	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/04/2015		5.1	1.0	ug/L
1,4-dichlorobenzene	MW-4	10/01/2015		3.9	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/04/2016		5.3	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/20/2016		3.5	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/24/2017		5.0	1.0	ug/L
1,4-dichlorobenzene	MW-4	10/09/2017		6.5	1.0	ug/L
1,4-dichlorobenzene	MW-4	3/21/2018		6.3	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/07/2018		4.9	1.0	ug/L
1,4-dichlorobenzene	MW-4	4/02/2019		10.4	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/18/2019		7.5	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/15/2020		6.2	1.0	ug/L
1,4-dichlorobenzene	MW-4	3/08/2021		6.3	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/28/2021		6.0	1.0	ug/L
1,4-dichlorobenzene	MW-4	3/08/2022		5.8	1.0	ug/L
1,4-dichlorobenzene	MW-4	8/30/2022		4.6	1.0	ug/L
1,4-dichlorobenzene	MW-4	3/07/2023		5.7	1.0	ug/L
1,4-dichlorobenzene	MW-4	9/11/2023		7.4	1.0	ug/L
Acetone	MW-4	4/23/2008		12.5	10.0	ug/L
Acetone	MW-4	9/17/2009		36.7	10.0	ug/L
Acetone	MW-4	11/06/2009		19.7	10.0	ug/L
Acetone	MW-4	4/05/2010		146.0	10.0	ug/L
Acetone	MW-4	4/13/2011		29.0	10.0	ug/L
Acetone	MW-4	4/09/2012		25.9	10.0	ug/L
Acetone	MW-4	9/05/2012		209.0	10.0	ug/L
Acetone	MW-4	4/10/2014		11.0	10.0	ug/L
Acetone	MW-4	10/09/2017		11.2	10.0	ug/L
Acetone	MW-4	9/28/2021		43.4	10.0	ug/L
Benzene	MW-4	7/07/1993		5.2	1.0	ug/L
Benzene	MW-4	10/12/1993		3.9	1.0	ug/L
Benzene	MW-4	1/24/1994		2.5	1.0	ug/L
Benzene	MW-4	4/26/1994		2.1	1.0	ug/L
Benzene	MW-4	7/26/1994		2.4	1.0	ug/L
Benzene	MW-4	10/13/1994		9.1	1.0	ug/L
Benzene	MW-4	4/25/1995		3.0	1.0	ug/L
Benzene	MW-4	10/18/1995		8.5	1.0	ug/L
Benzene	MW-4	2/08/1996		9.6	1.0	ug/L
Benzene	MW-4	4/26/1996		5.9	1.0	ug/L
Benzene	MW-4	7/31/1996		7.5	1.0	ug/L
Benzene	MW-4	10/09/1996		7.5	1.0	ug/L
Benzene	MW-4	9/26/1997		3.2	1.0	ug/L
Benzene	MW-4	4/23/1998		2.6	1.0	ug/L
Benzene	MW-4	9/16/1998		3.7	1.0	ug/L
Benzene	MW-4	3/30/1999		3.1	1.0	ug/L
Benzene	MW-4	10/07/1999		3.1	1.0	ug/L
Benzene	MW-4	4/13/2000		1.9	1.0	ug/L
Benzene	MW-4	4/05/2001		7.4	1.0	ug/L
Benzene	MW-4	8/28/2001		2.3	1.0	ug/L
Benzene	MW-4	3/29/2002		2.7	1.0	ug/L
Benzene	MW-4	4/15/2003		1.0	1.0	ug/L
Benzene	MW-4	4/03/2004		1.1	1.0	ug/L
Benzene	MW-4	9/29/2004		1.7	1.0	ug/L
Benzene	MW-4	4/09/2005		1.3	1.0	ug/L
Benzene	MW-4	4/09/2006		1.2	1.0	ug/L
Benzene	MW-4	9/18/2006		3.3	1.0	ug/L
Benzene	MW-4	4/21/2007		4.4	1.0	ug/L
Benzene	MW-4	9/20/2007		5.8	1.0	ug/L
Benzene	MW-4	4/23/2008		4.8	1.0	ug/L
Benzene	MW-4	6/23/2008		4.3	1.0	ug/L
Benzene	MW-4	8/13/2008		3.9	1.0	ug/L
Benzene	MW-4	10/02/2008		4.8	1.0	ug/L
Benzene	MW-4	12/13/2008		4.1	1.0	ug/L
Benzene	MW-4	3/04/2009		3.0	1.0	ug/L
Benzene	MW-4	9/17/2009		4.0	1.0	ug/L
Benzene	MW-4	11/06/2009		3.2	1.0	ug/L
Benzene	MW-4	4/05/2010		4.4	1.0	ug/L
Benzene	MW-4	10/08/2010		2.7	1.0	ug/L
Benzene	MW-4	4/13/2011		3.3	1.0	ug/L
Benzene	MW-4	9/22/2011		2.6	1.0	ug/L
Benzene	MW-4	4/09/2012		1.7	1.0	ug/L
Benzene	MW-4	9/05/2012		2.2	1.0	ug/L
Benzene	MW-4	4/26/2013		1.3	1.0	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Benzene	MW-4	4/10/2014		1.5	1.0	ug/L
Benzene	MW-4	10/16/2014		2.4	1.0	ug/L
Benzene	MW-4	4/04/2015		1.6	1.0	ug/L
Benzene	MW-4	10/01/2015		1.3	1.0	ug/L
Benzene	MW-4	4/04/2016		1.4	1.0	ug/L
Benzene	MW-4	9/20/2016		1.2	1.0	ug/L
Benzene	MW-4	4/24/2017		1.2	1.0	ug/L
Benzene	MW-4	10/09/2017		1.3	1.0	ug/L
Benzene	MW-4	3/21/2018		1.5	1.0	ug/L
Benzene	MW-4	4/02/2019		1.0	1.0	ug/L
Benzene	MW-4	3/25/2020		1.2	1.0	ug/L
Benzene	MW-4	9/15/2020		1.3	1.0	ug/L
Benzene	MW-4	3/08/2021		1.6	1.0	ug/L
Benzene	MW-4	9/28/2021		1.4	1.0	ug/L
Benzene	MW-4	3/08/2022		1.7	1.0	ug/L
Benzene	MW-4	8/30/2022		1.2	1.0	ug/L
Benzene	MW-4	3/07/2023		1.5	1.0	ug/L
Benzene	MW-4	9/11/2023		1.7	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-4	4/05/2010		11	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-4	9/20/2016		10	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-4	9/28/2021		12	6	ug/L
Chloroethane	MW-4	4/23/2008		6.9	1.0	ug/L
Chloroethane	MW-4	6/23/2008		5.8	1.0	ug/L
Chloroethane	MW-4	8/13/2008		5.2	1.0	ug/L
Chloroethane	MW-4	10/02/2008		6.9	1.0	ug/L
Chloroethane	MW-4	12/13/2008		4.6	1.0	ug/L
Chloroethane	MW-4	3/04/2009		3.4	1.0	ug/L
Chloroethane	MW-4	9/17/2009		6.3	1.0	ug/L
Chloroethane	MW-4	11/06/2009		3.7	1.0	ug/L
Chloroethane	MW-4	4/05/2010		5.4	1.0	ug/L
Chloroethane	MW-4	4/13/2011		3.4	1.0	ug/L
Chloroethane	MW-4	9/22/2011		3.9	1.0	ug/L
Chloroethane	MW-4	4/09/2012		2.1	1.0	ug/L
Chloroethane	MW-4	9/05/2012		4.4	1.0	ug/L
Chloroethane	MW-4	4/26/2013		2.0	1.0	ug/L
Chloroethane	MW-4	4/10/2014		2.4	1.0	ug/L
Chloroethane	MW-4	10/16/2014		4.7	1.0	ug/L
Chloroethane	MW-4	4/04/2015		2.1	1.0	ug/L
Chloroethane	MW-4	10/01/2015		3.0	1.0	ug/L
Chloroethane	MW-4	4/04/2016		3.1	1.0	ug/L
Chloroethane	MW-4	9/20/2016		3.9	1.0	ug/L
Chloroethane	MW-4	4/24/2017		2.3	1.0	ug/L
Chloroethane	MW-4	10/09/2017		3.0	1.0	ug/L
Chloroethane	MW-4	3/21/2018		2.4	1.0	ug/L
Chloroethane	MW-4	9/07/2018		2.5	1.0	ug/L
Chloroethane	MW-4	4/02/2019		2.1	1.0	ug/L
Chloroethane	MW-4	9/18/2019		2.9	1.0	ug/L
Chloroethane	MW-4	3/25/2020		1.5	1.0	ug/L
Chloroethane	MW-4	9/15/2020		5.0	1.0	ug/L
Chloroethane	MW-4	3/08/2021		1.4	1.0	ug/L
Chloroethane	MW-4	9/28/2021		2.4	1.0	ug/L
Chloroethane	MW-4	3/08/2022		1.2	1.0	ug/L
Chloroethane	MW-4	8/30/2022		1.9	1.0	ug/L
Chloroethane	MW-4	3/07/2023		1.4	1.0	ug/L
Chloroethane	MW-4	9/11/2023		2.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	4/23/2008		32.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	6/23/2008		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	8/13/2008		1.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	12/13/2008		1.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	9/17/2009		6.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	11/06/2009		3.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	4/05/2010		6.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	10/08/2010		2.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	4/13/2011		1.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	9/22/2011		4.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	4/09/2012		3.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	9/05/2012		16.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	4/26/2013		1.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	10/16/2014		2.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	10/01/2015		2.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	9/20/2016		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	10/09/2017		2.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	9/18/2019		3.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	9/15/2020		1.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	9/28/2021		2.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-4	8/30/2022		4.5	1.0	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Cis-1,2-dichloroethylene	MW-4	9/11/2023		2.7	1.0	ug/L
Dichlorodifluoromethane	MW-4	9/22/2011		1.6	1.0	ug/L
Dichlorodifluoromethane	MW-4	4/09/2012		1.2	1.0	ug/L
Dichlorodifluoromethane	MW-4	9/05/2012		1.4	1.0	ug/L
Dichlorodifluoromethane	MW-4	4/26/2013		1.2	1.0	ug/L
Dichlorodifluoromethane	MW-4	4/10/2014		1.7	1.0	ug/L
Dichlorodifluoromethane	MW-4	10/16/2014		3.7	1.0	ug/L
Dichlorodifluoromethane	MW-4	4/04/2015		1.1	1.0	ug/L
Dichlorodifluoromethane	MW-4	4/04/2016		1.4	1.0	ug/L
Dichlorodifluoromethane	MW-4	9/20/2016		1.1	1.0	ug/L
Dichlorodifluoromethane	MW-4	4/24/2017		1.3	1.0	ug/L
Dichlorodifluoromethane	MW-4	10/09/2017		1.0	1.0	ug/L
Dichlorodifluoromethane	MW-4	4/02/2019		2.6	1.0	ug/L
Dichlorodifluoromethane	MW-4	3/25/2020		1.1	1.0	ug/L
Ethylbenzene	MW-4	6/23/2008		1.0	1.0	ug/L
Ethylbenzene	MW-4	12/13/2008		1.1	1.0	ug/L
Methacrylonitrile	MW-4	9/22/2011		11.8	1.0	ug/L
Tetrachloroethylene	MW-4	4/23/2008		2	1	ug/L
Toluene	MW-4	6/23/2008		2.9	1.0	ug/L
Toluene	MW-4	8/13/2008		2.2	1.0	ug/L
Toluene	MW-4	10/02/2008		2.5	1.0	ug/L
Toluene	MW-4	12/13/2008		3.4	1.0	ug/L
Toluene	MW-4	3/04/2009		2.7	1.0	ug/L
Toluene	MW-4	9/17/2009		1.1	1.0	ug/L
Toluene	MW-4	4/05/2010		1.2	1.0	ug/L
Trichloroethylene	MW-4	7/07/1993		3.6	1.0	ug/L
Trichloroethylene	MW-4	10/12/1993		1.8	1.0	ug/L
Trichloroethylene	MW-4	1/24/1994		1.2	1.0	ug/L
Trichloroethylene	MW-4	4/23/2008		3.6	1.0	ug/L
Trichloroethylene	MW-4	9/05/2012		1.8	1.0	ug/L
Vinyl chloride	MW-4	4/23/2008		5.6	1.0	ug/L
Vinyl chloride	MW-4	6/23/2008		22.6	1.0	ug/L
Vinyl chloride	MW-4	8/13/2008		14.6	1.0	ug/L
Vinyl chloride	MW-4	10/02/2008		11.1	1.0	ug/L
Vinyl chloride	MW-4	12/13/2008		6.7	1.0	ug/L
Vinyl chloride	MW-4	3/04/2009		4.4	1.0	ug/L
Vinyl chloride	MW-4	9/17/2009		8.3	1.0	ug/L
Vinyl chloride	MW-4	11/06/2009		4.4	1.0	ug/L
Vinyl chloride	MW-4	4/05/2010		16.1	1.0	ug/L
Vinyl chloride	MW-4	10/08/2010		5.0	1.0	ug/L
Vinyl chloride	MW-4	4/13/2011		2.9	1.0	ug/L
Vinyl chloride	MW-4	9/22/2011		3.9	1.0	ug/L
Vinyl chloride	MW-4	4/09/2012		1.6	1.0	ug/L
Vinyl chloride	MW-4	9/05/2012		4.0	1.0	ug/L
Vinyl chloride	MW-4	4/26/2013		2.3	1.0	ug/L
Vinyl chloride	MW-4	4/10/2014		1.7	1.0	ug/L
Vinyl chloride	MW-4	10/16/2014		4.9	1.0	ug/L
Vinyl chloride	MW-4	4/04/2015		1.3	1.0	ug/L
Vinyl chloride	MW-4	10/01/2015		2.3	1.0	ug/L
Vinyl chloride	MW-4	9/20/2016		2.2	1.0	ug/L
Vinyl chloride	MW-4	10/09/2017		1.8	1.0	ug/L
Vinyl chloride	MW-4	3/21/2018		1.8	1.0	ug/L
Vinyl chloride	MW-4	9/07/2018		1.9	1.0	ug/L
Vinyl chloride	MW-4	4/02/2019		1.8	1.0	ug/L
Vinyl chloride	MW-4	9/18/2019		1.8	1.0	ug/L
Vinyl chloride	MW-4	3/25/2020		1.0	1.0	ug/L
Vinyl chloride	MW-4	9/15/2020		3.3	1.0	ug/L
Vinyl chloride	MW-4	9/28/2021		2.8	1.0	ug/L
Vinyl chloride	MW-4	8/30/2022		1.8	1.0	ug/L
Vinyl chloride	MW-4	9/11/2023		4.2	1.0	ug/L
Alpha-bhc	MW-5	3/25/2020		8.52	.05	ug/L
Bis(2-ethylhexyl) phthalate	MW-5	9/20/2016		10	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-5	3/25/2020		8	6	ug/L
Chloroethane	MW-5	4/23/2008		3.9	1.0	ug/L
Chloroethane	MW-5	6/23/2008		6.3	1.0	ug/L
Chloroethane	MW-5	8/13/2008		4.4	1.0	ug/L
Chloroethane	MW-5	10/02/2008		7.6	1.0	ug/L
Chloroethane	MW-5	12/13/2008		8.1	1.0	ug/L
Chloroethane	MW-5	3/04/2009		4.7	1.0	ug/L
Chloroethane	MW-5	9/17/2009		5.4	1.0	ug/L
Chloroethane	MW-5	11/06/2009		7.2	1.0	ug/L
Chloroethane	MW-5	4/05/2010		4.8	1.0	ug/L
Chloroethane	MW-5	4/13/2011		3.3	1.0	ug/L
Chloroethane	MW-5	9/22/2011		2.9	1.0	ug/L
Chloroethane	MW-5	9/05/2012		1.0	1.0	ug/L
Chloroethane	MW-5	4/26/2013		1.5	1.0	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Chloroethane	MW-5	9/26/2013		2.1	1.0	ug/L
Chloroethane	MW-5	4/10/2014		1.3	1.0	ug/L
Chloroethane	MW-5	10/16/2014		3.2	1.0	ug/L
Chloroethane	MW-5	10/01/2015		2.0	1.0	ug/L
Chloroethane	MW-5	4/04/2016		2.7	1.0	ug/L
Chloroethane	MW-5	4/24/2017		1.9	1.0	ug/L
Chloroethane	MW-5	4/02/2019		1.0	1.0	ug/L
Chloroethane	MW-5	6/05/2019		1.3	1.0	ug/L
Chloroethane	MW-5	9/18/2019		2.0	1.0	ug/L
Chloroethane	MW-5	3/25/2020		2.0	1.0	ug/L
Chloroethane	MW-5	9/15/2020		1.9	1.0	ug/L
Chloroethane	MW-5	3/08/2021		1.8	1.0	ug/L
Chloroethane	MW-5	8/30/2022		2.7	1.0	ug/L
Chloroethane	MW-5	3/07/2023		3.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-5	4/23/2008		1.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-5	6/23/2008		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW-5	12/13/2008		1.0	1.0	ug/L
Di-n-octyl phthalate	MW-5	9/20/2016		64	8	ug/L
1,1-dichloroethylene	MW-9	1/24/1994		4.1	1.0	ug/L
Benzene	MW-9	1/24/1994		2.7	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-9	4/10/2014		9	8	ug/L
Trichloroethylene	MW-9	1/24/1994		4.4	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 F

Assessment Statistics for Verified VOC Detections

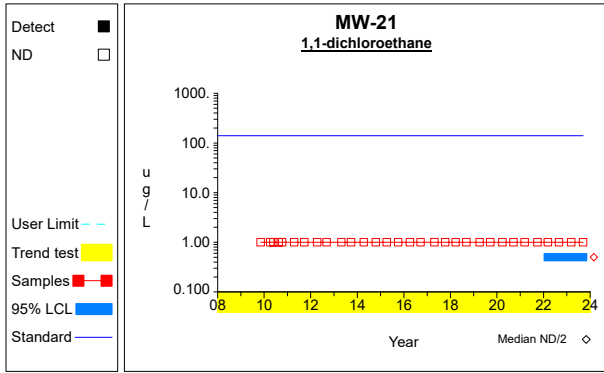
Table 1

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

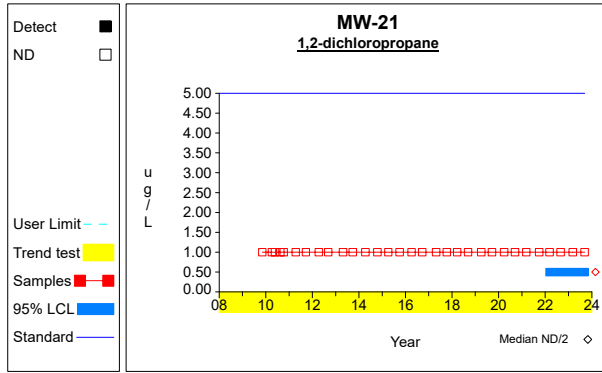
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
1,1-dichloroethane	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,2-dichloropropane	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	5.000		
1,4-dichlorobenzene	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	75.000		
Acetone	ug/L	MW-21	4	5.000	0.000	1.176	5.000	5.000	6300.000		
Benzene	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	5.000		
Bis(2-ethylhexyl) phthalate	ug/L	MW-21	3								*
Chloroethane	ug/L	MW-21	4	0.850	0.436	1.176	0.337	1.363	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	70.000		
Vinyl chloride	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	2.000		
1,1-dichloroethane	ug/L	MW-4	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,2-dichloropropane	ug/L	MW-4	4	0.775	0.320	1.176	0.398	1.152	5.000		
1,4-dichlorobenzene	ug/L	MW-4	4	5.875	1.153	1.176	4.519	7.231	75.000		
Acetone	ug/L	MW-4	4	5.000	0.000	1.176	5.000	5.000	6300.000		
Benzene	ug/L	MW-4	4	1.525	0.236	1.176	1.247	1.803	5.000	dec	
Bis(2-ethylhexyl) phthalate	ug/L	MW-4	4	8.000	3.559	1.176	3.814	12.186	6.000		
Chloroethane	ug/L	MW-4	4	1.625	0.386	1.176	1.171	2.079	2800.000	dec	
Cis-1,2-dichloroethylene	ug/L	MW-4	4	2.050	1.935	1.176	0.000	4.326	70.000		
Vinyl chloride	ug/L	MW-4	4	1.750	1.745	1.176	0.000	3.802	2.000	dec	
1,1-dichloroethane	ug/L	MW-5	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,2-dichloropropane	ug/L	MW-5	4	0.500	0.000	1.176	0.500	0.500	5.000		
1,4-dichlorobenzene	ug/L	MW-5	4	0.500	0.000	1.176	0.500	0.500	75.000		
Acetone	ug/L	MW-5	4	5.000	0.000	1.176	5.000	5.000	6300.000		
Benzene	ug/L	MW-5	4	0.500	0.000	1.176	0.500	0.500	5.000		
Bis(2-ethylhexyl) phthalate	ug/L	MW-5	4	4.250	2.500	1.176	1.309	7.191	6.000		
Chloroethane	ug/L	MW-5	4	1.700	1.395	1.176	0.059	3.341	2800.000	dec	
Cis-1,2-dichloroethylene	ug/L	MW-5	4	0.500	0.000	1.176	0.500	0.500	70.000		
Vinyl chloride	ug/L	MW-5	4	0.500	0.000	1.176	0.500	0.500	2.000		

* - Insufficient Data
 ** - Significant Exceedance
 LCL = Lower Confidence Limit
 UCL = Upper Confidence Limit

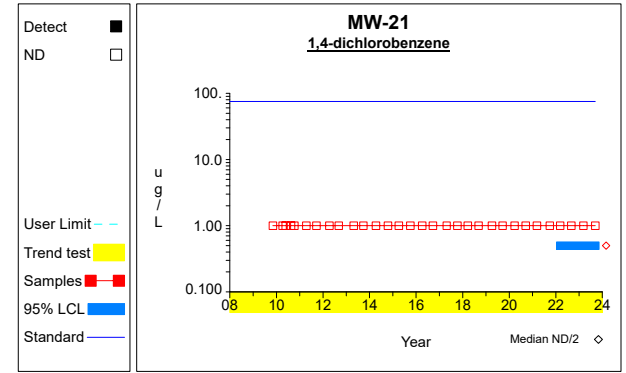
Confidence Limits (Assessment)



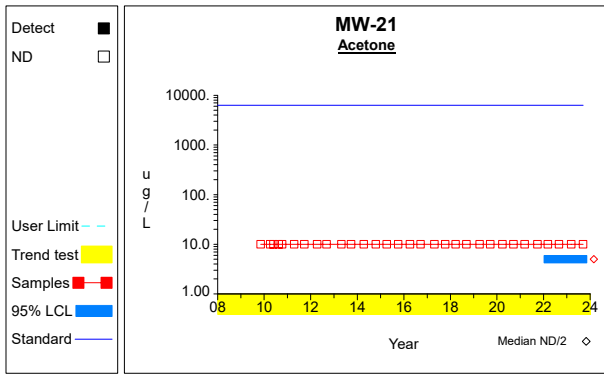
Graph 1



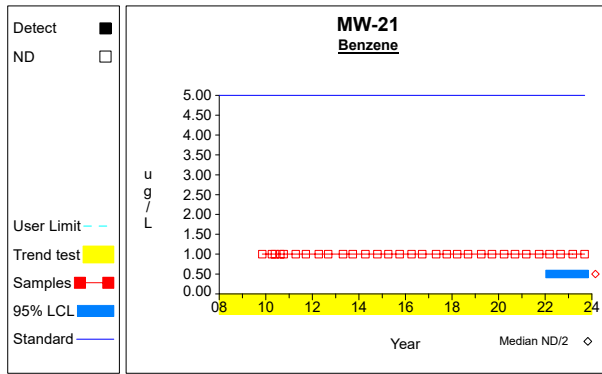
Graph 2



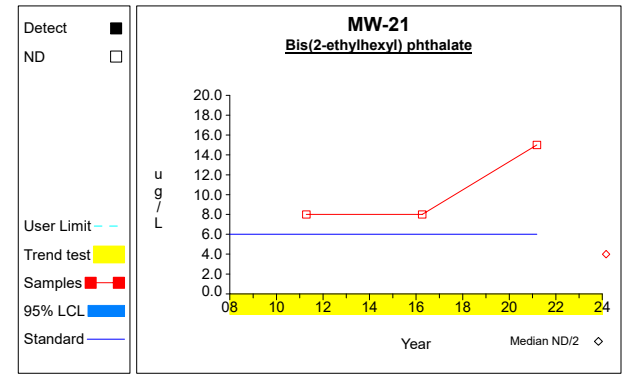
Graph 3



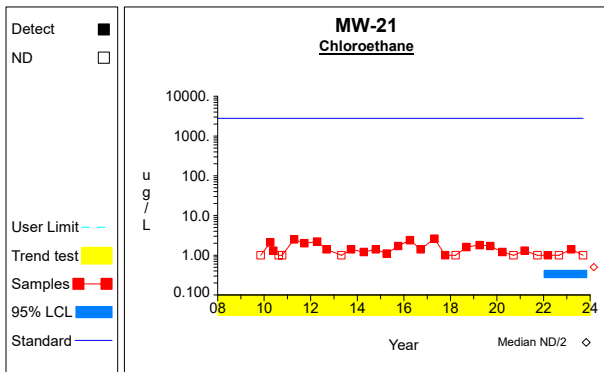
Graph 4



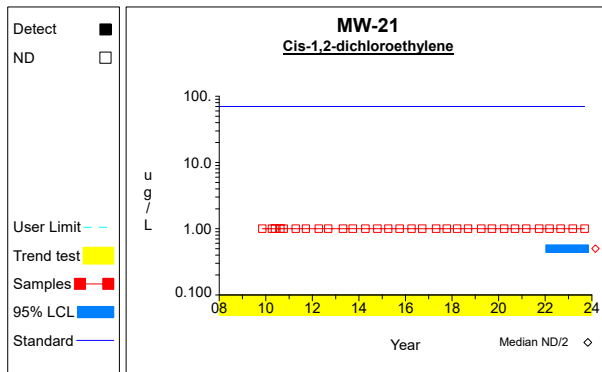
Graph 5



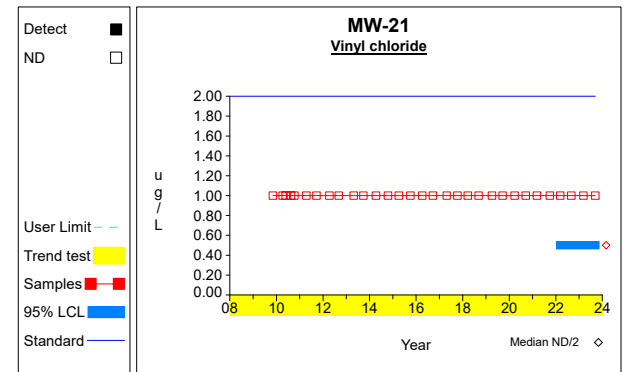
Graph 6



Graph 7

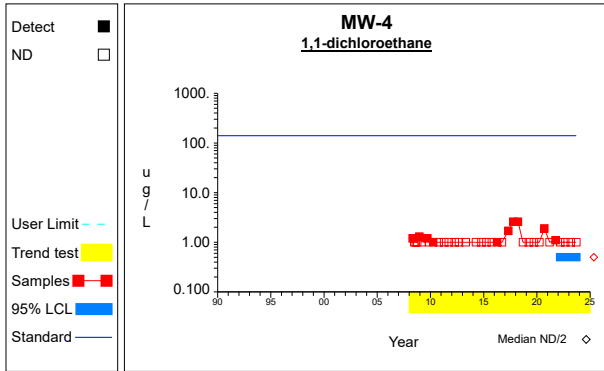


Graph 8

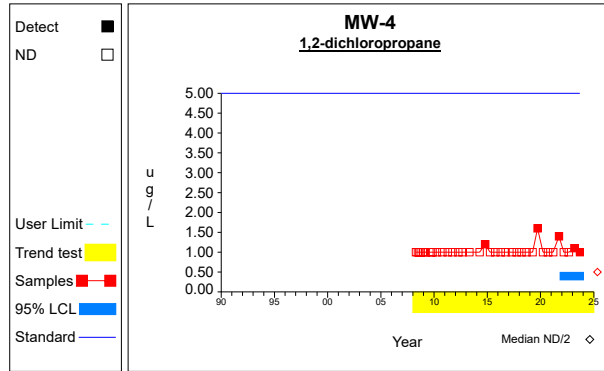


Graph 9

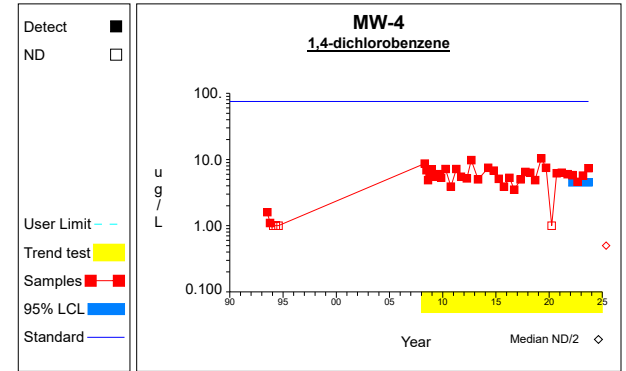
Confidence Limits (Assessment)



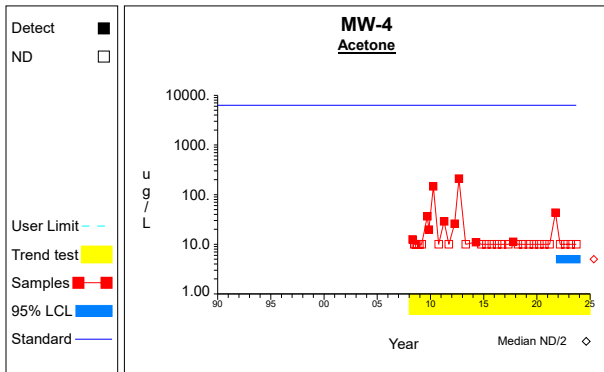
Graph 10



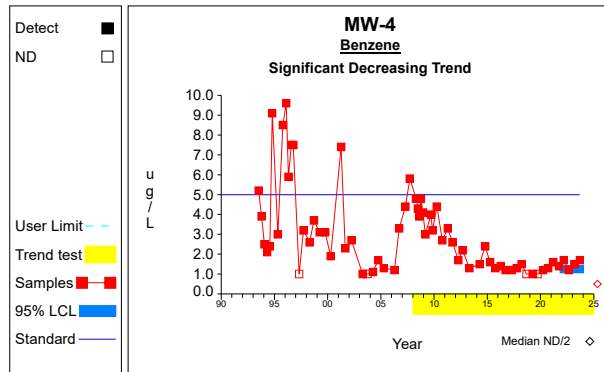
Graph 11



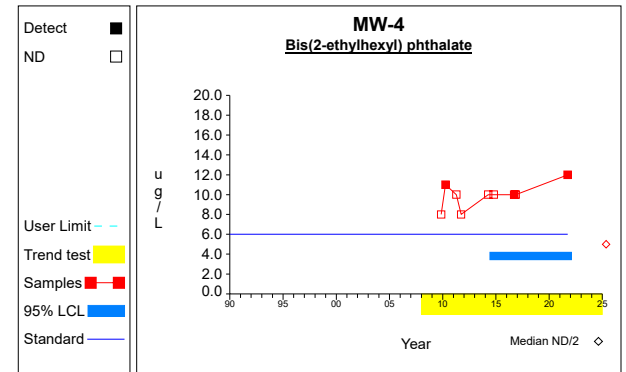
Graph 12



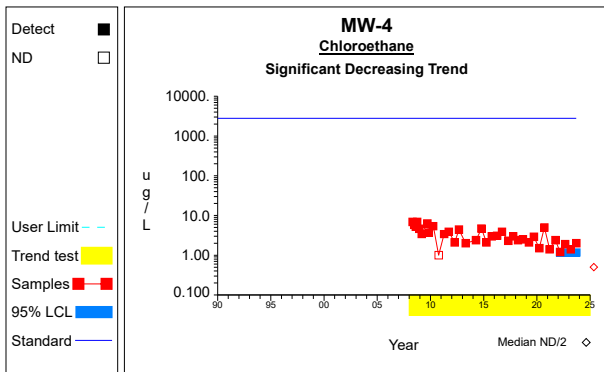
Graph 13



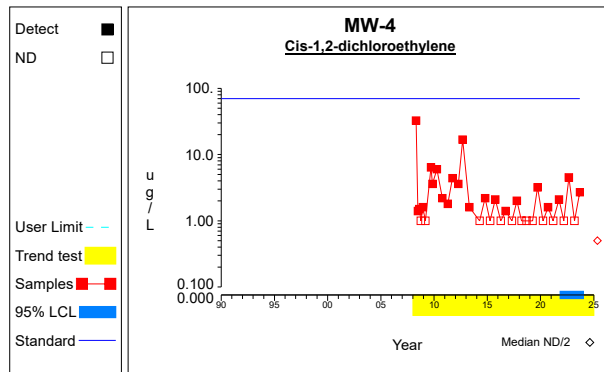
Graph 14



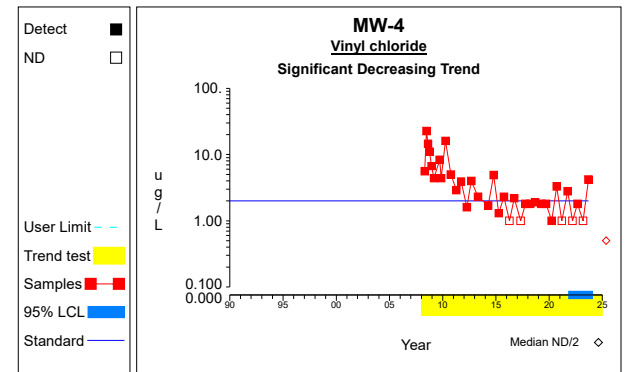
Graph 15



Graph 16

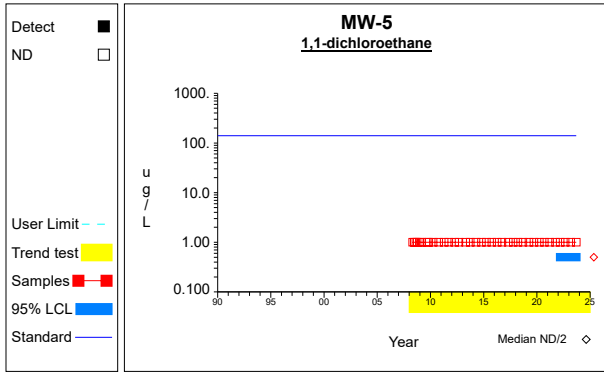


Graph 17

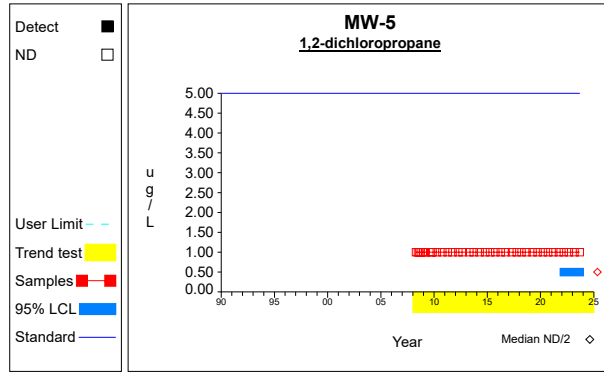


Graph 18

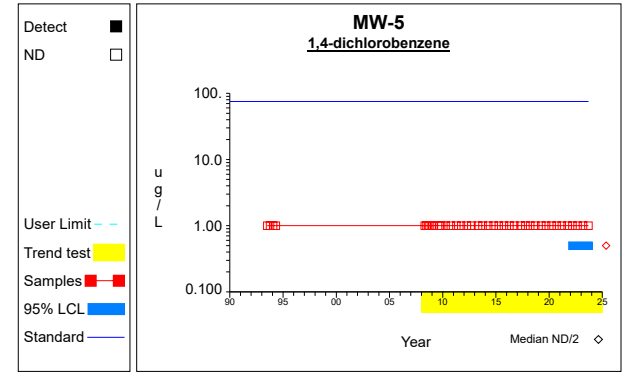
Confidence Limits (Assessment)



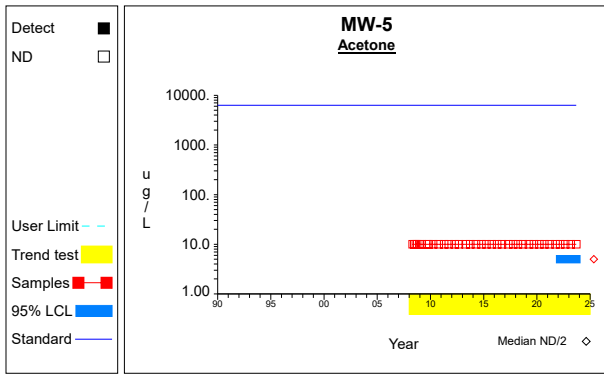
Graph 19



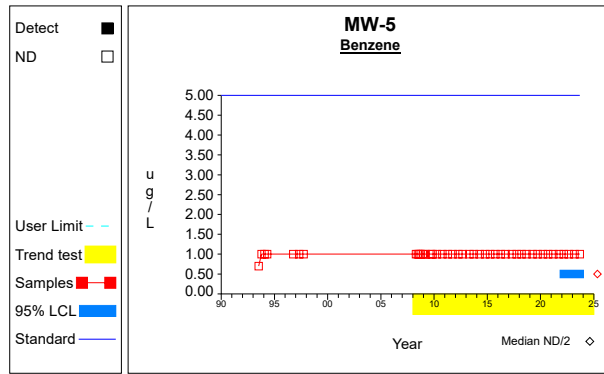
Graph 20



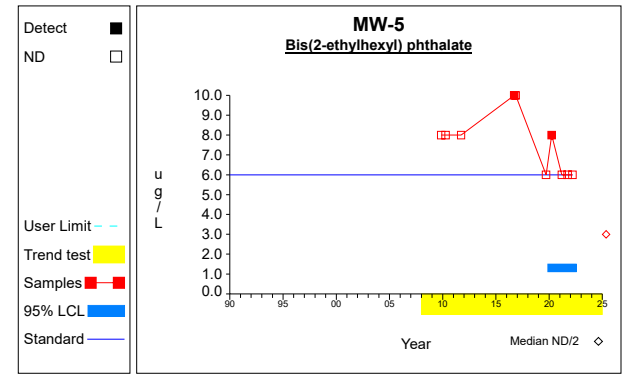
Graph 21



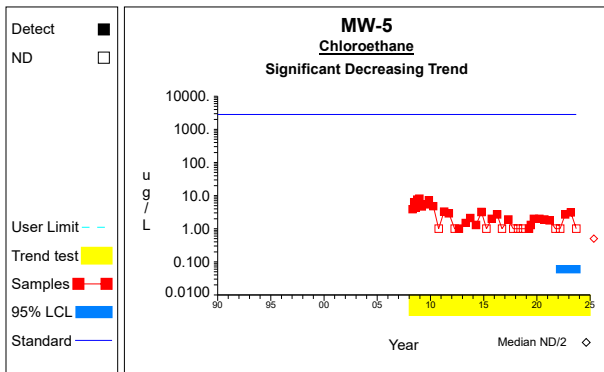
Graph 22



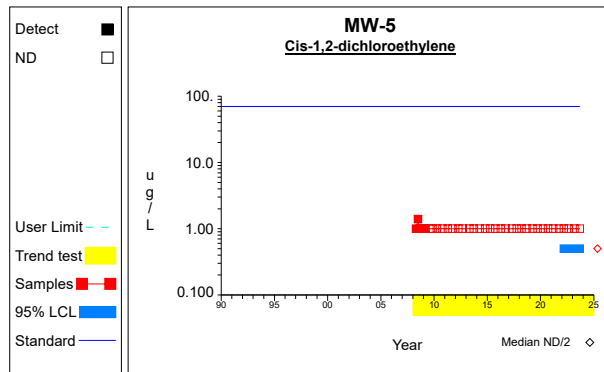
Graph 23



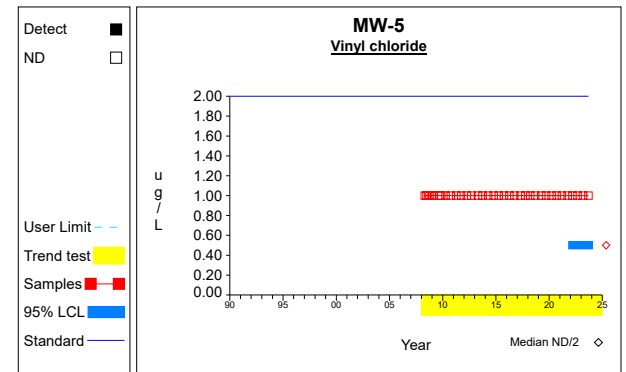
Graph 24



Graph 25



Graph 26



Graph 27

Appendix C

Laboratory Reports for Reporting Period *With Chain of Custody*

ANALYTICAL REPORT

March 19, 2023

Work Order: 1GC0745

Page 1 of 62

Report To
Todd Whipple HLW Engineering PO Box 314 Story City, IA 50248

Work Order Information
Date Received: 3/8/2023 10:00:00AM Collector: JGH Phone: (515) 733-4144 PO Number: 2023 Spring Sampling

Project: South Dallas Co. - New Regs

Project Number: Appendix Sampling

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-01	MW-9			Matrix: Water		Collected: 03/07/23 09:05	
Acrylonitrile	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
<i>Surrogate: Dibromofluoromethane</i>	<i>112 %</i>			<i>80-126</i>	AJM	03/09/23 23:55	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>116 %</i>			<i>63-138</i>	AJM	03/09/23 23:55	
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>			<i>87-116</i>	AJM	03/09/23 23:55	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>99.8 %</i>			<i>85-111</i>	AJM	03/09/23 23:55	
Chloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Vinyl Chloride	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Bromomethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Chloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Acetone	<10.0 ug/L	10.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Methyl Iodide	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Carbon Disulfide	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Methylene Chloride	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Vinyl Acetate	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Bromochloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Chloroform	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Benzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Trichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 2 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-01	MW-9			Matrix: Water		Collected: 03/07/23 09:05	
Dibromomethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Bromodichloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Toluene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Tetrachloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Dibromochloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Chlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Ethylbenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Xylenes, total	<2.0 ug/L	2.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Styrene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
Bromoform	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/09/23 23:55	
<i>Surrogate: Dibromofluoromethane</i>	<i>112 %</i>			<i>75-136</i>	AJM	03/09/23 23:55	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>116 %</i>			<i>61-142</i>	AJM	03/09/23 23:55	
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>			<i>82-121</i>	AJM	03/09/23 23:55	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>99.8 %</i>			<i>80-116</i>	AJM	03/09/23 23:55	
Silver, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:23	
Arsenic, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:23	
Barium, total	0.269 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:23	
Beryllium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:23	
Cadmium, total	<0.0008 mg/L	0.0008	1GC0738	EPA 6020A	RVV	03/15/23 23:23	
Cobalt, total	0.0048 mg/L	0.0004	1GC0738	EPA 6020A	RVV	03/15/23 23:23	
Chromium, total	<0.0080 mg/L	0.0080	1GC0738	EPA 6020A	RVV	03/15/23 23:23	
Copper, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:23	
Nickel, total	0.0100 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:23	
Lead, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:23	
Antimony, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/15/23 23:23	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 3 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-01	MW-9			Matrix: Water		Collected: 03/07/23 09:05	
Selenium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:23	
Thallium, total	0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/15/23 23:23	
Vanadium, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/15/23 23:23	
Zinc, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/15/23 23:23	
1GC0745-02	MW-17			Matrix: Water		Collected: 03/07/23 10:30	
Acrylonitrile	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Surrogate: Dibromofluoromethane	112 %			80-126	AJM	03/10/23 0:41	
Surrogate: 1,2-Dichloroethane-d4	117 %			63-138	AJM	03/10/23 0:41	
Surrogate: Toluene-d8	103 %			87-116	AJM	03/10/23 0:41	
Surrogate: 4-Bromofluorobenzene	99.6 %			85-111	AJM	03/10/23 0:41	
Chloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Vinyl Chloride	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Bromomethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Chloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Acetone	<10.0 ug/L	10.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Methyl Iodide	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Carbon Disulfide	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Methylene Chloride	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Vinyl Acetate	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Bromochloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Chloroform	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Benzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Trichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Dibromomethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Bromodichloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 4 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-02	MW-17			Matrix: Water		Collected: 03/07/23 10:30	
Toluene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Tetrachloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Dibromochloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Chlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Ethylbenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Xylenes, total	<2.0 ug/L	2.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Styrene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Bromoform	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 0:41	
Surrogate: Dibromofluoromethane	112 %			75-136	AJM	03/10/23 0:41	
Surrogate: 1,2-Dichloroethane-d4	117 %			61-142	AJM	03/10/23 0:41	
Surrogate: Toluene-d8	103 %			82-121	AJM	03/10/23 0:41	
Surrogate: 4-Bromofluorobenzene	99.6 %			80-116	AJM	03/10/23 0:41	
Silver, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:46	
Arsenic, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:46	
Barium, total	0.162 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:46	
Beryllium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:46	
Cadmium, total	<0.0008 mg/L	0.0008	1GC0738	EPA 6020A	RVV	03/15/23 23:46	
Cobalt, total	0.0130 mg/L	0.0004	1GC0738	EPA 6020A	RVV	03/15/23 23:46	
Chromium, total	<0.0080 mg/L	0.0080	1GC0738	EPA 6020A	RVV	03/15/23 23:46	
Copper, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:46	
Nickel, total	0.0091 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:46	
Lead, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:46	
Antimony, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/15/23 23:46	
Selenium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/15/23 23:46	
Thallium, total	0.0023 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/15/23 23:46	
Vanadium, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/15/23 23:46	
Zinc, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/15/23 23:46	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 5 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-03	MW-18			Matrix: Water		Collected: 03/07/23 09:42	
Acrylonitrile	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Surrogate: Dibromofluoromethane	113 %			80-126	AJM	03/10/23 1:28	
Surrogate: 1,2-Dichloroethane-d4	118 %			63-138	AJM	03/10/23 1:28	
Surrogate: Toluene-d8	104 %			87-116	AJM	03/10/23 1:28	
Surrogate: 4-Bromofluorobenzene	99.3 %			85-111	AJM	03/10/23 1:28	
Chloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Vinyl Chloride	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Bromomethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Chloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Acetone	<10.0 ug/L	10.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Methyl Iodide	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Carbon Disulfide	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Methylene Chloride	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Vinyl Acetate	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Bromochloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Chloroform	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Benzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Trichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Dibromomethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Bromodichloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Toluene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Tetrachloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Dibromochloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 6 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-03	MW-18			Matrix: Water		Collected: 03/07/23 09:42	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Chlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Ethylbenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Xylenes, total	<2.0 ug/L	2.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Styrene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
Bromoform	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 1:28	
<i>Surrogate: Dibromofluoromethane</i>	<i>113 %</i>			<i>75-136</i>	AJM	03/10/23 1:28	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>118 %</i>			<i>61-142</i>	AJM	03/10/23 1:28	
<i>Surrogate: Toluene-d8</i>	<i>104 %</i>			<i>82-121</i>	AJM	03/10/23 1:28	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>99.3 %</i>			<i>80-116</i>	AJM	03/10/23 1:28	
Silver, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:03	
Arsenic, total	0.0183 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:03	
Barium, total	0.702 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:03	
Beryllium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:03	
Cadmium, total	<0.0008 mg/L	0.0008	1GC0738	EPA 6020A	RVV	03/16/23 0:03	
Cobalt, total	0.0092 mg/L	0.0004	1GC0738	EPA 6020A	RVV	03/16/23 0:03	
Chromium, total	<0.0080 mg/L	0.0080	1GC0738	EPA 6020A	RVV	03/16/23 0:03	
Copper, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:03	
Nickel, total	0.0198 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:03	
Lead, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:03	
Antimony, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:03	
Selenium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:03	
Thallium, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:03	
Vanadium, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:03	
Zinc, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:03	

1GC0745-04	MW-19A			Matrix: Water		Collected: 03/07/23 10:03	
Acrylonitrile	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
<i>Surrogate: Dibromofluoromethane</i>	<i>113 %</i>			<i>80-126</i>	AJM	03/10/23 2:13	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>116 %</i>			<i>63-138</i>	AJM	03/10/23 2:13	
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>			<i>87-116</i>	AJM	03/10/23 2:13	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>99.7 %</i>			<i>85-111</i>	AJM	03/10/23 2:13	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 7 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-04	MW-19A			Matrix: Water		Collected: 03/07/23 10:03	
Chloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Vinyl Chloride	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Bromomethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Chloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Acetone	<10.0 ug/L	10.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Methyl Iodide	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Carbon Disulfide	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Methylene Chloride	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Vinyl Acetate	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Bromochloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Chloroform	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Benzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Trichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Dibromomethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Bromodichloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Toluene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Tetrachloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Dibromochloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Chlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Ethylbenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 8 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-04	MW-19A			Matrix: Water		Collected: 03/07/23 10:03	
Xylenes, total	<2.0 ug/L	2.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Styrene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Bromoform	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 2:13	
Surrogate: Dibromofluoromethane	113 %			75-136	AJM	03/10/23 2:13	
Surrogate: 1,2-Dichloroethane-d4	116 %			61-142	AJM	03/10/23 2:13	
Surrogate: Toluene-d8	103 %			82-121	AJM	03/10/23 2:13	
Surrogate: 4-Bromofluorobenzene	99.7 %			80-116	AJM	03/10/23 2:13	
Silver, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:09	
Arsenic, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:09	
Barium, total	0.0325 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:09	
Beryllium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:09	
Cadmium, total	<0.0008 mg/L	0.0008	1GC0738	EPA 6020A	RVV	03/16/23 0:09	
Cobalt, total	0.0004 mg/L	0.0004	1GC0738	EPA 6020A	RVV	03/16/23 0:09	
Chromium, total	<0.0080 mg/L	0.0080	1GC0738	EPA 6020A	RVV	03/16/23 0:09	
Copper, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:09	
Nickel, total	0.0114 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:09	
Lead, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:09	
Antimony, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:09	
Selenium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:09	
Thallium, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:09	
Vanadium, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:09	
Zinc, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:09	

1GC0745-05	MW-24			Matrix: Water		Collected: 03/07/23 09:20	
Acrylonitrile	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Surrogate: Dibromofluoromethane	114 %			80-126	AJM	03/10/23 3:00	
Surrogate: 1,2-Dichloroethane-d4	118 %			63-138	AJM	03/10/23 3:00	
Surrogate: Toluene-d8	104 %			87-116	AJM	03/10/23 3:00	
Surrogate: 4-Bromofluorobenzene	100 %			85-111	AJM	03/10/23 3:00	
Chloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Vinyl Chloride	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Bromomethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Chloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 9 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-05	MW-24			Matrix: Water		Collected: 03/07/23 09:20	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Acetone	<10.0 ug/L	10.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Methyl Iodide	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Carbon Disulfide	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Methylene Chloride	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Vinyl Acetate	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Bromochloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Chloroform	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Benzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Trichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Dibromomethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Bromodichloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Toluene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Tetrachloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Dibromochloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Chlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Ethylbenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Xylenes, total	<2.0 ug/L	2.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Styrene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
Bromoform	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 10 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-05	MW-24			Matrix: Water		Collected: 03/07/23 09:20	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 3:00	
<i>Surrogate: Dibromofluoromethane</i>	<i>114 %</i>			<i>75-136</i>	AJM	03/10/23 3:00	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>118 %</i>			<i>61-142</i>	AJM	03/10/23 3:00	
<i>Surrogate: Toluene-d8</i>	<i>104 %</i>			<i>82-121</i>	AJM	03/10/23 3:00	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>100 %</i>			<i>80-116</i>	AJM	03/10/23 3:00	
Silver, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:15	
Arsenic, total	0.0129 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:15	
Barium, total	0.385 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:15	
Beryllium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:15	
Cadmium, total	<0.0008 mg/L	0.0008	1GC0738	EPA 6020A	RVV	03/16/23 0:15	
Cobalt, total	<0.0004 mg/L	0.0004	1GC0738	EPA 6020A	RVV	03/16/23 0:15	
Chromium, total	<0.0080 mg/L	0.0080	1GC0738	EPA 6020A	RVV	03/16/23 0:15	
Copper, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:15	
Nickel, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:15	
Lead, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:15	
Antimony, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:15	
Selenium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:15	
Thallium, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:15	
Vanadium, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:15	
Zinc, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:15	
1GC0745-06	MW-4			Matrix: Water		Collected: 03/07/23 11:13	
Acrylonitrile	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
<i>Surrogate: Dibromofluoromethane</i>	<i>112 %</i>			<i>80-126</i>	AJM	03/10/23 3:46	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>117 %</i>			<i>63-138</i>	AJM	03/10/23 3:46	
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>			<i>87-116</i>	AJM	03/10/23 3:46	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>100 %</i>			<i>85-111</i>	AJM	03/10/23 3:46	
Chloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Vinyl Chloride	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Bromomethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Chloroethane	1.4 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Acetone	<10.0 ug/L	10.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Methyl Iodide	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 11 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-06	MW-4			Matrix: Water		Collected: 03/07/23 11:13	
Carbon Disulfide	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Methylene Chloride	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Vinyl Acetate	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Bromochloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Chloroform	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Benzene	1.5 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Trichloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
1,2-Dichloropropane	1.1 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Dibromomethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Bromodichloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Toluene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Tetrachloroethylene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Dibromochloromethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Chlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Ethylbenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Xylenes, total	<2.0 ug/L	2.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Styrene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
Bromoform	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
1,4-Dichlorobenzene	5.7 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GC0499	EPA 8260B	AJM	03/10/23 3:46	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 12 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-06	MW-4			Matrix: Water		Collected: 03/07/23 11:13	
<i>Surrogate: Dibromofluoromethane</i>	112 %			75-136	AJM	03/10/23 3:46	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	117 %			61-142	AJM	03/10/23 3:46	
<i>Surrogate: Toluene-d8</i>	103 %			82-121	AJM	03/10/23 3:46	
<i>Surrogate: 4-Bromofluorobenzene</i>	100 %			80-116	AJM	03/10/23 3:46	
Silver, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:21	
Arsenic, total	0.0508 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:21	
Barium, total	0.890 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:21	
Beryllium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:21	
Cadmium, total	<0.0008 mg/L	0.0008	1GC0738	EPA 6020A	RVV	03/16/23 0:21	
Cobalt, total	0.0016 mg/L	0.0004	1GC0738	EPA 6020A	RVV	03/16/23 0:21	
Chromium, total	<0.0080 mg/L	0.0080	1GC0738	EPA 6020A	RVV	03/16/23 0:21	
Copper, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:21	
Nickel, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:21	
Lead, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:21	
Antimony, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:21	
Selenium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:21	
Thallium, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:21	
Vanadium, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:21	
Zinc, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:21	
1GC0745-07	MW-5			Matrix: Water		Collected: 03/07/23 11:53	
Acrylonitrile	<5.0 ug/L	5.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
<i>Surrogate: Dibromofluoromethane</i>	115 %			80-126	AJM	03/10/23 19:35	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	118 %			63-138	AJM	03/10/23 19:35	
<i>Surrogate: Toluene-d8</i>	104 %			87-116	AJM	03/10/23 19:35	
<i>Surrogate: 4-Bromofluorobenzene</i>	102 %			85-111	AJM	03/10/23 19:35	
Chloromethane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Vinyl Chloride	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Bromomethane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Chloroethane	3.1 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Acetone	<10.0 ug/L	10.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Methyl Iodide	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Carbon Disulfide	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Methylene Chloride	<5.0 ug/L	5.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Vinyl Acetate	<5.0 ug/L	5.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 13 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-07	MW-5			Matrix: Water		Collected: 03/07/23 11:53	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Bromochloromethane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Chloroform	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Benzene	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Trichloroethylene	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Dibromomethane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Bromodichloromethane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Toluene	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Tetrachloroethylene	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Dibromochloromethane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Chlorobenzene	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Ethylbenzene	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Xylenes, total	<2.0 ug/L	2.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Styrene	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Bromoform	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GC0566	EPA 8260B	AJM	03/10/23 19:35	
Surrogate: Dibromofluoromethane	115 %			75-136	AJM	03/10/23 19:35	
Surrogate: 1,2-Dichloroethane-d4	118 %			61-142	AJM	03/10/23 19:35	
Surrogate: Toluene-d8	104 %			82-121	AJM	03/10/23 19:35	
Surrogate: 4-Bromofluorobenzene	102 %			80-116	AJM	03/10/23 19:35	
Silver, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:27	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 14 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-07	MW-5			Matrix: Water		Collected: 03/07/23 11:53	
Arsenic, total	0.0830 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:27	
Barium, total	0.460 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:27	
Beryllium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:27	
Cadmium, total	<0.0008 mg/L	0.0008	1GC0738	EPA 6020A	RVV	03/16/23 0:27	
Cobalt, total	0.0052 mg/L	0.0004	1GC0738	EPA 6020A	RVV	03/16/23 0:27	
Chromium, total	<0.0080 mg/L	0.0080	1GC0738	EPA 6020A	RVV	03/16/23 0:27	
Copper, total	0.0092 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:27	
Nickel, total	0.0087 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:27	
Lead, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:27	
Antimony, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:27	
Selenium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:27	
Thallium, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:27	
Vanadium, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:27	
Zinc, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:27	

1GC0745-08	MW-12			Matrix: Water		Collected: 03/07/23 12:36	
Acrylonitrile	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
<i>Surrogate: Dibromofluoromethane</i>	<i>103 %</i>			<i>80-126</i>	BDF	03/11/23 10:50	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>99.2 %</i>			<i>63-138</i>	BDF	03/11/23 10:50	
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>			<i>87-116</i>	BDF	03/11/23 10:50	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>100 %</i>			<i>85-111</i>	BDF	03/11/23 10:50	
Chloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Vinyl Chloride	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Bromomethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Chloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Acetone	<10.0 ug/L	10.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Methyl Iodide	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Carbon Disulfide	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Methylene Chloride	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Vinyl Acetate	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Bromochloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Chloroform	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 15 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-08	MW-12			Matrix: Water		Collected: 03/07/23 12:36	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Benzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Trichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Dibromomethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Bromodichloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Toluene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Tetrachloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Dibromochloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Chlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Ethylbenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Xylenes, total	<2.0 ug/L	2.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Styrene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Bromoform	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 10:50	
Surrogate: Dibromofluoromethane	103 %			75-136	BDF	03/11/23 10:50	
Surrogate: 1,2-Dichloroethane-d4	99.2 %			61-142	BDF	03/11/23 10:50	
Surrogate: Toluene-d8	105 %			82-121	BDF	03/11/23 10:50	
Surrogate: 4-Bromofluorobenzene	100 %			80-116	BDF	03/11/23 10:50	
Silver, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:32	
Arsenic, total	0.0102 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:32	
Barium, total	0.450 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:32	
Beryllium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:32	
Cadmium, total	<0.0008 mg/L	0.0008	1GC0738	EPA 6020A	RVV	03/16/23 0:32	
Cobalt, total	0.0044 mg/L	0.0004	1GC0738	EPA 6020A	RVV	03/16/23 0:32	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 16 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-08	MW-12			Matrix: Water		Collected: 03/07/23 12:36	
Chromium, total	<0.0080 mg/L	0.0080	1GC0738	EPA 6020A	RVV	03/16/23 0:32	
Copper, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:32	
Nickel, total	0.0082 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:32	
Lead, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:32	
Antimony, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:32	
Selenium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:32	
Thallium, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:32	
Vanadium, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:32	
Zinc, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:32	
1GC0745-09	MW-15R			Matrix: Water		Collected: 03/07/23 13:00	
Acrylonitrile	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
<i>Surrogate: Dibromofluoromethane</i>	<i>102 %</i>			<i>80-126</i>	BDF	03/11/23 11:30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>98.3 %</i>			<i>63-138</i>	BDF	03/11/23 11:30	
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>			<i>87-116</i>	BDF	03/11/23 11:30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.6 %</i>			<i>85-111</i>	BDF	03/11/23 11:30	
Chloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Vinyl Chloride	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Bromomethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Chloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Acetone	<10.0 ug/L	10.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Methyl Iodide	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Carbon Disulfide	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Methylene Chloride	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Vinyl Acetate	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Bromochloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Chloroform	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Benzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Trichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 17 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-09	MW-15R			Matrix: Water		Collected: 03/07/23 13:00	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Dibromomethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Bromodichloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Toluene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Tetrachloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Dibromochloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Chlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Ethylbenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Xylenes, total	<2.0 ug/L	2.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Styrene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Bromoform	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 11:30	
Surrogate: Dibromofluoromethane	102 %			75-136	BDF	03/11/23 11:30	
Surrogate: 1,2-Dichloroethane-d4	98.3 %			61-142	BDF	03/11/23 11:30	
Surrogate: Toluene-d8	105 %			82-121	BDF	03/11/23 11:30	
Surrogate: 4-Bromofluorobenzene	98.6 %			80-116	BDF	03/11/23 11:30	
Silver, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:38	
Arsenic, total	0.0215 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:38	
Barium, total	0.393 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:38	
Beryllium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:38	
Cadmium, total	<0.0008 mg/L	0.0008	1GC0738	EPA 6020A	RVV	03/16/23 0:38	
Cobalt, total	0.0018 mg/L	0.0004	1GC0738	EPA 6020A	RVV	03/16/23 0:38	
Chromium, total	<0.0080 mg/L	0.0080	1GC0738	EPA 6020A	RVV	03/16/23 0:38	
Copper, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:38	
Nickel, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:38	
Lead, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:38	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 18 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-09	MW-15R			Matrix: Water		Collected: 03/07/23 13:00	
Antimony, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:38	
Selenium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:38	
Thallium, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:38	
Vanadium, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:38	
Zinc, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:38	
1GC0745-10	MW-20R			Matrix: Water		Collected: 03/07/23 12:47	
Acrylonitrile	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
<i>Surrogate: Dibromofluoromethane</i>	105 %			80-126	BDF	03/11/23 12:09	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.3 %			63-138	BDF	03/11/23 12:09	
<i>Surrogate: Toluene-d8</i>	106 %			87-116	BDF	03/11/23 12:09	
<i>Surrogate: 4-Bromofluorobenzene</i>	101 %			85-111	BDF	03/11/23 12:09	
Chloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Vinyl Chloride	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Bromomethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Chloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Acetone	<10.0 ug/L	10.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Methyl Iodide	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Carbon Disulfide	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Methylene Chloride	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Vinyl Acetate	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Bromochloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Chloroform	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Benzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Trichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Dibromomethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Bromodichloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 19 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-10	MW-20R			Matrix: Water		Collected: 03/07/23 12:47	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Toluene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Tetrachloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Dibromochloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Chlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Ethylbenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Xylenes, total	<2.0 ug/L	2.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Styrene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Bromoform	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 12:09	
Surrogate: Dibromofluoromethane	105 %			75-136	BDF	03/11/23 12:09	
Surrogate: 1,2-Dichloroethane-d4	97.3 %			61-142	BDF	03/11/23 12:09	
Surrogate: Toluene-d8	106 %			82-121	BDF	03/11/23 12:09	
Surrogate: 4-Bromofluorobenzene	101 %			80-116	BDF	03/11/23 12:09	
Silver, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:44	
Arsenic, total	0.0430 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:44	
Barium, total	0.599 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:44	
Beryllium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:44	
Cadmium, total	<0.0008 mg/L	0.0008	1GC0738	EPA 6020A	RVV	03/16/23 0:44	
Cobalt, total	0.0005 mg/L	0.0004	1GC0738	EPA 6020A	RVV	03/16/23 0:44	
Chromium, total	<0.0080 mg/L	0.0080	1GC0738	EPA 6020A	RVV	03/16/23 0:44	
Copper, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:44	
Nickel, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:44	
Lead, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:44	
Antimony, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:44	
Selenium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:44	
Thallium, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:44	
Vanadium, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:44	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 20 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-10	MW-20R			Matrix: Water		Collected: 03/07/23 12:47	
Zinc, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:44	
1GC0745-11	MW-21			Matrix: Water		Collected: 03/07/23 12:18	
Acrylonitrile	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Surrogate: Dibromofluoromethane	104 %			80-126	BDF	03/11/23 12:49	
Surrogate: 1,2-Dichloroethane-d4	99.1 %			63-138	BDF	03/11/23 12:49	
Surrogate: Toluene-d8	106 %			87-116	BDF	03/11/23 12:49	
Surrogate: 4-Bromofluorobenzene	99.2 %			85-111	BDF	03/11/23 12:49	
Chloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Vinyl Chloride	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Bromomethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Chloroethane	1.4 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Acetone	<10.0 ug/L	10.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Methyl Iodide	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Carbon Disulfide	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Methylene Chloride	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Vinyl Acetate	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Bromochloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Chloroform	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Benzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Trichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Dibromomethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Bromodichloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Toluene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 21 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-11	MW-21			Matrix: Water		Collected: 03/07/23 12:18	
Tetrachloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Dibromochloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Chlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Ethylbenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Xylenes, total	<2.0 ug/L	2.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Styrene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Bromoform	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 12:49	
Surrogate: Dibromofluoromethane	104 %			75-136	BDF	03/11/23 12:49	
Surrogate: 1,2-Dichloroethane-d4	99.1 %			61-142	BDF	03/11/23 12:49	
Surrogate: Toluene-d8	106 %			82-121	BDF	03/11/23 12:49	
Surrogate: 4-Bromofluorobenzene	99.2 %			80-116	BDF	03/11/23 12:49	
Silver, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:50	
Arsenic, total	0.0305 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:50	
Barium, total	1.42 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:50	
Beryllium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:50	
Cadmium, total	<0.0008 mg/L	0.0008	1GC0738	EPA 6020A	RVV	03/16/23 0:50	
Cobalt, total	0.0009 mg/L	0.0004	1GC0738	EPA 6020A	RVV	03/16/23 0:50	
Chromium, total	<0.0080 mg/L	0.0080	1GC0738	EPA 6020A	RVV	03/16/23 0:50	
Copper, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:50	
Nickel, total	0.0068 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:50	
Lead, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:50	
Antimony, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:50	
Selenium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:50	
Thallium, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:50	
Vanadium, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:50	
Zinc, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:50	

1GC0745-12	MW-22			Matrix: Water		Collected: 03/07/23 10:59	
Acrylonitrile	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Surrogate: Dibromofluoromethane	102 %			80-126	BDF	03/11/23 13:29	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 22 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-12	MW-22			Matrix: Water		Collected: 03/07/23 10:59	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.7 %			63-138	BDF	03/11/23 13:29	
<i>Surrogate: Toluene-d8</i>	106 %			87-116	BDF	03/11/23 13:29	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.9 %			85-111	BDF	03/11/23 13:29	
Chloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Vinyl Chloride	1.3 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Bromomethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Chloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Acetone	<10.0 ug/L	10.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Methyl Iodide	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Carbon Disulfide	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Methylene Chloride	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Vinyl Acetate	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Bromochloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Chloroform	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Benzene	2.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Trichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Dibromomethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Bromodichloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Toluene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Tetrachloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Dibromochloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Chlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 23 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-12	MW-22			Matrix: Water		Collected: 03/07/23 10:59	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Ethylbenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Xylenes, total	<2.0 ug/L	2.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Styrene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Bromoform	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 13:29	
Surrogate: Dibromofluoromethane	102 %			75-136	BDF	03/11/23 13:29	
Surrogate: 1,2-Dichloroethane-d4	97.7 %			61-142	BDF	03/11/23 13:29	
Surrogate: Toluene-d8	106 %			82-121	BDF	03/11/23 13:29	
Surrogate: 4-Bromofluorobenzene	98.9 %			80-116	BDF	03/11/23 13:29	
Silver, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:56	
Arsenic, total	0.0955 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:56	
Barium, total	0.367 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:56	
Beryllium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:56	
Cadmium, total	0.0010 mg/L	0.0008	1GC0738	EPA 6020A	RVV	03/16/23 0:56	
Cobalt, total	0.0042 mg/L	0.0004	1GC0738	EPA 6020A	RVV	03/16/23 0:56	
Chromium, total	<0.0080 mg/L	0.0080	1GC0738	EPA 6020A	RVV	03/16/23 0:56	
Copper, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:56	
Nickel, total	0.0077 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:56	
Lead, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:56	
Antimony, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:56	
Selenium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 0:56	
Thallium, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 0:56	
Vanadium, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:56	
Zinc, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 0:56	
1GC0745-13	MW-25			Matrix: Water		Collected: 03/07/23 11:38	
Vinyl Chloride	<1.0 ug/L	1.0	1GC0613	EPA 8260B	MSV	03/13/23 14:04	
Surrogate: Dibromofluoromethane	98.9 %			80-126	MSV	03/13/23 14:04	
Surrogate: 1,2-Dichloroethane-d4	102 %			63-138	MSV	03/13/23 14:04	
Surrogate: Toluene-d8	102 %			87-116	MSV	03/13/23 14:04	
Surrogate: 4-Bromofluorobenzene	93.8 %			85-111	MSV	03/13/23 14:04	
Arsenic, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:13	
Barium, total	0.105 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:13	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 24 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-14	MW-26			Matrix: Water		Collected: 03/07/23 11:26	
Vinyl Chloride	<1.0 ug/L	1.0	1GC0613	EPA 8260B	MSV	03/13/23 14:41	
Surrogate: Dibromofluoromethane	99.4 %			80-126	MSV	03/13/23 14:41	
Surrogate: 1,2-Dichloroethane-d4	97.5 %			63-138	MSV	03/13/23 14:41	
Surrogate: Toluene-d8	108 %			87-116	MSV	03/13/23 14:41	
Surrogate: 4-Bromofluorobenzene	97.6 %			85-111	MSV	03/13/23 14:41	
Arsenic, total	0.0238 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:19	
Barium, total	0.341 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:19	
1GC0745-15	GWD-1			Matrix: Water		Collected: 03/07/23 10:42	
Acrylonitrile	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Surrogate: Dibromofluoromethane	104 %			80-126	BDF	03/11/23 14:09	
Surrogate: 1,2-Dichloroethane-d4	95.1 %			63-138	BDF	03/11/23 14:09	
Surrogate: Toluene-d8	106 %			87-116	BDF	03/11/23 14:09	
Surrogate: 4-Bromofluorobenzene	100 %			85-111	BDF	03/11/23 14:09	
Chloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Vinyl Chloride	1.3 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Bromomethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Chloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Acetone	<10.0 ug/L	10.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Methyl Iodide	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Carbon Disulfide	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Methylene Chloride	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Vinyl Acetate	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Bromochloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Chloroform	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Benzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Trichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Dibromomethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Bromodichloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 25 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-15	GWD-1			Matrix: Water		Collected: 03/07/23 10:42	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Toluene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Tetrachloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Dibromochloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Chlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Ethylbenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Xylenes, total	<2.0 ug/L	2.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Styrene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Bromoform	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 14:09	
Surrogate: Dibromofluoromethane	104 %			75-136	BDF	03/11/23 14:09	
Surrogate: 1,2-Dichloroethane-d4	95.1 %			61-142	BDF	03/11/23 14:09	
Surrogate: Toluene-d8	106 %			82-121	BDF	03/11/23 14:09	
Surrogate: 4-Bromofluorobenzene	100 %			80-116	BDF	03/11/23 14:09	
Silver, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:25	
Arsenic, total	0.0053 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:25	
Barium, total	0.199 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:25	
Beryllium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:25	
Cadmium, total	<0.0008 mg/L	0.0008	1GC0738	EPA 6020A	RVV	03/16/23 1:25	
Cobalt, total	0.0006 mg/L	0.0004	1GC0738	EPA 6020A	RVV	03/16/23 1:25	
Chromium, total	<0.0080 mg/L	0.0080	1GC0738	EPA 6020A	RVV	03/16/23 1:25	
Copper, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:25	
Nickel, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:25	
Lead, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:25	
Antimony, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 1:25	
Selenium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:25	
Thallium, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 1:25	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 26 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-15	GWD-1			Matrix: Water		Collected: 03/07/23 10:42	
Vanadium, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 1:25	
Zinc, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 1:25	
1GC0745-16	Duplicate			Matrix: Water		Collected: 03/07/23 12:18	
Acrylonitrile	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
<i>Surrogate: Dibromofluoromethane</i>	103 %			80-126	BDF	03/11/23 14:49	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	100 %			63-138	BDF	03/11/23 14:49	
<i>Surrogate: Toluene-d8</i>	106 %			87-116	BDF	03/11/23 14:49	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.9 %			85-111	BDF	03/11/23 14:49	
Chloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Vinyl Chloride	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Bromomethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Chloroethane	1.4 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Acetone	<10.0 ug/L	10.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Methyl Iodide	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Carbon Disulfide	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Methylene Chloride	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Vinyl Acetate	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Bromochloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Chloroform	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Benzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Trichloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Dibromomethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Bromodichloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Toluene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 27 of 62

Work Order: 1GC0745

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0745-16	Duplicate			Matrix: Water		Collected: 03/07/23 12:18	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Tetrachloroethylene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Dibromochloromethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Chlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Ethylbenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Xylenes, total	<2.0 ug/L	2.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Styrene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Bromoform	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GC0575	EPA 8260B	BDF	03/11/23 14:49	
Surrogate: Dibromofluoromethane	103 %			75-136	BDF	03/11/23 14:49	
Surrogate: 1,2-Dichloroethane-d4	100 %			61-142	BDF	03/11/23 14:49	
Surrogate: Toluene-d8	106 %			82-121	BDF	03/11/23 14:49	
Surrogate: 4-Bromofluorobenzene	98.9 %			80-116	BDF	03/11/23 14:49	
Silver, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:31	
Arsenic, total	0.0293 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:31	
Barium, total	1.48 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:31	
Beryllium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:31	
Cadmium, total	<0.0008 mg/L	0.0008	1GC0738	EPA 6020A	RVV	03/16/23 1:31	
Cobalt, total	0.0009 mg/L	0.0004	1GC0738	EPA 6020A	RVV	03/16/23 1:31	
Chromium, total	<0.0080 mg/L	0.0080	1GC0738	EPA 6020A	RVV	03/16/23 1:31	
Copper, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:31	
Nickel, total	0.0064 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:31	
Lead, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:31	
Antimony, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 1:31	
Selenium, total	<0.0040 mg/L	0.0040	1GC0738	EPA 6020A	RVV	03/16/23 1:31	
Thallium, total	<0.0020 mg/L	0.0020	1GC0738	EPA 6020A	RVV	03/16/23 1:31	
Vanadium, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 1:31	
Zinc, total	<0.0200 mg/L	0.0200	1GC0738	EPA 6020A	RVV	03/16/23 1:31	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 28 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0499 - EPA 5030B

Blank (1GC0499-BLK1)

Prepared & Analyzed: 03/09/23

Surrogate: Dibromofluoromethane	55.7		ug/L	50.3520	111		80-126			
Surrogate: Dibromofluoromethane	55.7		"	50.3520	111		75-136			
Surrogate: 1,2-Dichloroethane-d4	57.1		"	50.4080	113		61-142			
Surrogate: 1,2-Dichloroethane-d4	57.1		"	50.4080	113		63-138			
Surrogate: Toluene-d8	51.8		"	50.2360	103		82-121			
Surrogate: Toluene-d8	51.8		"	50.2360	103		87-116			
Surrogate: 4-Bromofluorobenzene	49.9		"	50.4200	98.9		85-111			
Surrogate: 4-Bromofluorobenzene	49.9		"	50.4200	98.9		80-116			
Chloromethane	ND	1.0	"							
Vinyl Chloride	ND	1.0	"							
Bromomethane	ND	1.0	"							
Chloroethane	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,1-Dichloroethylene	ND	1.0	"							
Acetone	ND	10.0	"							
Methyl Iodide	ND	1.0	"							
Carbon Disulfide	ND	1.0	"							
Methylene Chloride	ND	5.0	"							
Acrylonitrile	ND	5.0	"							
trans-1,2-Dichloroethylene	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
Vinyl Acetate	ND	5.0	"							
cis-1,2-Dichloroethylene	ND	1.0	"							
2-Butanone (MEK)	ND	10.0	"							
Bromochloromethane	ND	1.0	"							
Chloroform	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Carbon Tetrachloride	ND	1.0	"							
Benzene	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Trichloroethylene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
Dibromomethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
4-Methyl-2-pentanone (MIBK)	ND	5.0	"							
Toluene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 29 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0499 - EPA 5030B

Blank (1GC0499-BLK1)				Prepared & Analyzed: 03/09/23						
1,1,2-Trichloroethane	ND	1.0	ug/L							
Tetrachloroethylene	ND	1.0	"							
2-Hexanone (MBK)	ND	5.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromoethane	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	2.0	"							
Styrene	ND	1.0	"							
Bromoform	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
trans-1,4-Dichloro-2-butene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							

LCS (1GC0499-BS1)				Prepared & Analyzed: 03/09/23						
Surrogate: Dibromofluoromethane	49.9		ug/L	50.3520		99.2	75-136			
Surrogate: Dibromofluoromethane	49.9		"	50.3520		99.2	80-126			
Surrogate: 1,2-Dichloroethane-d4	50.1		"	50.4080		99.3	61-142			
Surrogate: 1,2-Dichloroethane-d4	50.1		"	50.4080		99.3	63-138			
Surrogate: Toluene-d8	50.5		"	50.2360		100	82-121			
Surrogate: Toluene-d8	50.5		"	50.2360		100	87-116			
Surrogate: 4-Bromofluorobenzene	50.2		"	50.4200		99.6	80-116			
Surrogate: 4-Bromofluorobenzene	50.2		"	50.4200		99.6	85-111			
Chloromethane	24.92	1.0	"	30.0000		83.1	63-155			
Vinyl Chloride	38.39	1.0	"	30.0000		128	70-154			
Bromomethane	22.07	1.0	"	30.0000		73.6	52-176			
Chloroethane	38.79	1.0	"	30.0000		129	72-148			
Trichlorofluoromethane	33.84	1.0	"	30.0000		113	70-152			
1,1-Dichloroethylene	56.35	1.0	"	50.0000		113	70-148			
Acetone	113.2	10.0	"	108.800		104	43-172			
Methyl Iodide	98.69	1.0	"	99.6930		99.0	69-170			
Carbon Disulfide	117.6	1.0	"	104.600		112	72-162			
Methylene Chloride	47.71	5.0	"	50.0000		95.4	68-142			
Acrylonitrile	103.2	5.0	"	100.500		103	67-144			
trans-1,2-Dichloroethylene	51.98	1.0	"	50.0000		104	66-148			

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 30 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0499 - EPA 5030B

LCS (1GC0499-BS1)

Prepared & Analyzed: 03/09/23

1,1-Dichloroethane	50.26	1.0	ug/L	50.0000	101	66-143
Vinyl Acetate	63.05	5.0	"	115.300	54.7	43-153
cis-1,2-Dichloroethylene	64.83	1.0	"	50.0000	130	71-149
2-Butanone (MEK)	79.96	10.0	"	105.600	75.7	52-159
Bromochloromethane	48.63	1.0	"	50.0000	97.3	69-143
Chloroform	53.81	1.0	"	50.0000	108	69-144
1,1,1-Trichloroethane	45.47	1.0	"	49.9750	91.0	62-129
Carbon Tetrachloride	54.43	1.0	"	50.0000	109	63-141
Benzene	49.42	1.0	"	50.0000	98.8	71-134
1,2-Dichloroethane	48.78	1.0	"	50.0000	97.6	72-132
Trichloroethylene	45.89	1.0	"	50.0000	91.8	71-135
1,2-Dichloropropane	49.44	1.0	"	50.0000	98.9	69-136
Dibromomethane	44.99	1.0	"	50.0000	90.0	73-147
Bromodichloromethane	47.57	1.0	"	50.0000	95.1	68-129
cis-1,3-Dichloropropene	47.03	1.0	"	50.3250	93.5	65-134
4-Methyl-2-pentanone (MIBK)	100.4	5.0	"	106.400	94.4	58-147
Toluene	49.12	1.0	"	50.0000	98.2	72-133
trans-1,3-Dichloropropene	46.37	1.0	"	50.4250	92.0	67-130
1,1,2-Trichloroethane	48.92	1.0	"	50.0000	97.8	69-135
Tetrachloroethylene	41.63	1.0	"	50.0000	83.3	69-130
2-Hexanone (MBK)	96.04	5.0	"	105.000	91.5	55-144
Dibromochloromethane	49.96	1.0	"	49.5000	101	73-127
1,2-Dibromoethane	51.13	1.0	"	50.0000	102	67-132
Chlorobenzene	47.68	1.0	"	50.0000	95.4	72-123
1,1,1,2-Tetrachloroethane	48.62	1.0	"	50.0000	97.2	73-127
Ethylbenzene	46.35	1.0	"	50.0000	92.7	71-127
Xylenes, total	139.2	2.0	"	150.000	92.8	74-127
Styrene	45.29	1.0	"	50.0000	90.6	66-126
Bromoform	54.14	1.0	"	50.0000	108	68-130
1,2,3-Trichloropropane	49.86	1.0	"	50.0000	99.7	63-136
trans-1,4-Dichloro-2-butene	99.00	5.0	"	116.300	85.1	54-134
1,1,2,2-Tetrachloroethane	49.34	1.0	"	49.8500	99.0	61-131
1,4-Dichlorobenzene	48.18	1.0	"	50.0000	96.4	70-129
1,2-Dichlorobenzene	46.66	1.0	"	50.0000	93.3	69-126
1,2-Dibromo-3-chloropropane	52.17	5.0	"	50.0000	104	50-143

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 31 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0499 - EPA 5030B

LCS Dup (1GC0499-BSD1)

Prepared & Analyzed: 03/09/23

Surrogate: Dibromofluoromethane	49.5		ug/L	50.3520		98.2	80-126			
Surrogate: Dibromofluoromethane	49.5		"	50.3520		98.2	75-136			
Surrogate: 1,2-Dichloroethane-d4	49.2		"	50.4080		97.6	63-138			
Surrogate: 1,2-Dichloroethane-d4	49.2		"	50.4080		97.6	61-142			
Surrogate: Toluene-d8	50.5		"	50.2360		100	87-116			
Surrogate: Toluene-d8	50.5		"	50.2360		100	82-121			
Surrogate: 4-Bromofluorobenzene	50.9		"	50.4200		101	80-116			
Surrogate: 4-Bromofluorobenzene	50.9		"	50.4200		101	85-111			
Chloromethane	22.77	1.0	"	30.0000		75.9	63-155	9.02	24	
Vinyl Chloride	37.48	1.0	"	30.0000		125	70-154	2.40	25	
Bromomethane	25.15	1.0	"	30.0000		83.8	52-176	13.0	27	
Chloroethane	37.01	1.0	"	30.0000		123	72-148	4.70	25	
Trichlorofluoromethane	31.91	1.0	"	30.0000		106	70-152	5.87	26	
1,1-Dichloroethylene	53.95	1.0	"	50.0000		108	70-148	4.35	24	
Acetone	105.0	10.0	"	108.800		96.5	43-172	7.50	30	
Methyl Iodide	149.8	1.0	"	99.6930		150	69-170	41.1	30	QR-02
Carbon Disulfide	110.3	1.0	"	104.600		105	72-162	6.36	24	
Methylene Chloride	46.87	5.0	"	50.0000		93.7	68-142	1.78	21	
Acrylonitrile	99.96	5.0	"	100.500		99.5	67-144	3.24	24	
trans-1,2-Dichloroethylene	50.00	1.0	"	50.0000		100	66-148	3.88	27	
1,1-Dichloroethane	48.33	1.0	"	50.0000		96.7	66-143	3.92	24	
Vinyl Acetate	88.43	5.0	"	115.300		76.7	43-153	33.5	30	QR-02
cis-1,2-Dichloroethylene	63.70	1.0	"	50.0000		127	71-149	1.76	26	
2-Butanone (MEK)	88.35	10.0	"	105.600		83.7	52-159	9.97	27	
Bromochloromethane	49.36	1.0	"	50.0000		98.7	69-143	1.49	23	
Chloroform	51.98	1.0	"	50.0000		104	69-144	3.46	23	
1,1,1-Trichloroethane	44.19	1.0	"	49.9750		88.4	62-129	2.86	24	
Carbon Tetrachloride	56.23	1.0	"	50.0000		112	63-141	3.25	25	
Benzene	47.50	1.0	"	50.0000		95.0	71-134	3.96	24	
1,2-Dichloroethane	48.28	1.0	"	50.0000		96.6	72-132	1.03	24	
Trichloroethylene	44.83	1.0	"	50.0000		89.7	71-135	2.34	24	
1,2-Dichloropropane	48.86	1.0	"	50.0000		97.7	69-136	1.18	24	
Dibromomethane	48.71	1.0	"	50.0000		97.4	73-147	7.94	25	
Bromodichloromethane	46.89	1.0	"	50.0000		93.8	68-129	1.44	22	
cis-1,3-Dichloropropene	47.00	1.0	"	50.3250		93.4	65-134	0.0638	23	
4-Methyl-2-pentanone (MIBK)	97.38	5.0	"	106.400		91.5	58-147	3.10	27	
Toluene	48.24	1.0	"	50.0000		96.5	72-133	1.81	24	
trans-1,3-Dichloropropene	45.75	1.0	"	50.4250		90.7	67-130	1.35	24	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 32 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0499 - EPA 5030B

LCS Dup (1GC0499-BSD1)				Prepared & Analyzed: 03/09/23						
1,1,2-Trichloroethane	48.19	1.0	ug/L	50.0000	96.4	69-135	1.50	23		
Tetrachloroethylene	40.80	1.0	"	50.0000	81.6	69-130	2.01	25		
2-Hexanone (MBK)	94.11	5.0	"	105.000	89.6	55-144	2.03	25		
Dibromochloromethane	50.05	1.0	"	49.5000	101	73-127	0.180	22		
1,2-Dibromoethane	50.73	1.0	"	50.0000	101	67-132	0.785	24		
Chlorobenzene	47.39	1.0	"	50.0000	94.8	72-123	0.610	23		
1,1,1,2-Tetrachloroethane	48.82	1.0	"	50.0000	97.6	73-127	0.411	24		
Ethylbenzene	45.81	1.0	"	50.0000	91.6	71-127	1.17	26		
Xylenes, total	137.2	2.0	"	150.000	91.5	74-127	1.48	25		
Styrene	44.90	1.0	"	50.0000	89.8	66-126	0.865	23		
Bromoform	53.96	1.0	"	50.0000	108	68-130	0.333	23		
1,2,3-Trichloropropane	48.21	1.0	"	50.0000	96.4	63-136	3.36	24		
trans-1,4-Dichloro-2-butene	97.35	5.0	"	116.300	83.7	54-134	1.68	27		
1,1,2,2-Tetrachloroethane	47.17	1.0	"	49.8500	94.6	61-131	4.50	29		
1,4-Dichlorobenzene	46.29	1.0	"	50.0000	92.6	70-129	4.00	24		
1,2-Dichlorobenzene	46.12	1.0	"	50.0000	92.2	69-126	1.16	26		
1,2-Dibromo-3-chloropropane	50.46	5.0	"	50.0000	101	50-143	3.33	30		

Matrix Spike (1GC0499-MS1)			Source: 1GC0672-16		Prepared & Analyzed: 03/09/23					
Surrogate: Dibromofluoromethane	503		ug/L	503.520	99.9	80-126				
Surrogate: Dibromofluoromethane	503		"	503.520	99.9	75-136				
Surrogate: 1,2-Dichloroethane-d4	512		"	504.080	102	61-142				
Surrogate: 1,2-Dichloroethane-d4	512		"	504.080	102	63-138				
Surrogate: Toluene-d8	498		"	502.360	99.2	82-121				
Surrogate: Toluene-d8	498		"	502.360	99.2	87-116				
Surrogate: 4-Bromofluorobenzene	503		"	504.200	99.8	80-116				
Surrogate: 4-Bromofluorobenzene	503		"	504.200	99.8	85-111				
Chloromethane	257.4	10.0	"	300.000	ND	85.8	61-152			
Vinyl Chloride	380.1	10.0	"	300.000	ND	127	66-149			
Bromomethane	265.0	10.0	"	300.000	ND	88.3	43-171			
Chloroethane	380.1	10.0	"	300.000	ND	127	69-148			
Trichlorofluoromethane	321.0	10.0	"	300.000	ND	107	62-163			
1,1-Dichloroethylene	548.8	10.0	"	500.000	ND	110	70-148			
Acetone	1115	100	"	1088.00	ND	102	45-173			
Methyl Iodide	1384	10.0	"	996.930	ND	139	62-167			
Carbon Disulfide	1108	10.0	"	1046.00	ND	106	71-163			
Methylene Chloride	469.3	50.0	"	500.000	ND	93.9	69-140			
Acrylonitrile	1011	50.0	"	1005.00	ND	101	58-151			
trans-1,2-Dichloroethylene	510.8	10.0	"	500.000	ND	102	69-144			

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 33 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0499 - EPA 5030B

Matrix Spike (1GC0499-MS1)	Source: 1GC0672-16			Prepared & Analyzed: 03/09/23						
1,1-Dichloroethane	486.6	10.0	ug/L	500.000	ND	97.3	70-138			
Vinyl Acetate	1086	50.0	"	1153.00	ND	94.1	58-142			
cis-1,2-Dichloroethylene	649.7	10.0	"	500.000	ND	130	68-151			
2-Butanone (MEK)	972.7	100	"	1056.00	ND	92.1	50-160			
Bromochloromethane	501.1	10.0	"	500.000	ND	100	65-143			
Chloroform	522.4	10.0	"	500.000	ND	104	71-143			
1,1,1-Trichloroethane	449.6	10.0	"	499.750	ND	90.0	63-133			
Carbon Tetrachloride	571.0	10.0	"	500.000	ND	114	63-142			
Benzene	476.4	10.0	"	500.000	ND	95.3	69-133			
1,2-Dichloroethane	482.3	10.0	"	500.000	ND	96.5	63-138			
Trichloroethylene	444.9	10.0	"	500.000	ND	89.0	71-133			
1,2-Dichloropropane	485.7	10.0	"	500.000	ND	97.1	69-132			
Dibromomethane	484.3	10.0	"	500.000	ND	96.9	70-147			
Bromodichloromethane	462.5	10.0	"	500.000	ND	92.5	67-130			
cis-1,3-Dichloropropene	451.7	10.0	"	503.250	ND	89.8	61-126			
4-Methyl-2-pentanone (MIBK)	987.5	50.0	"	1064.00	ND	92.8	55-147			
Toluene	476.4	10.0	"	500.000	ND	95.3	71-133			
trans-1,3-Dichloropropene	441.6	10.0	"	504.250	ND	87.6	63-124			
1,1,2-Trichloroethane	476.3	10.0	"	500.000	ND	95.3	69-133			
Tetrachloroethylene	401.7	10.0	"	500.000	ND	80.3	70-124			
2-Hexanone (MBK)	973.3	50.0	"	1050.00	ND	92.7	53-141			
Dibromochloromethane	487.9	10.0	"	495.000	ND	98.6	74-122			
1,2-Dibromoethane	496.8	10.0	"	500.000	ND	99.4	66-127			
Chlorobenzene	465.8	10.0	"	500.000	ND	93.2	76-116			
1,1,1,2-Tetrachloroethane	473.6	10.0	"	500.000	ND	94.7	77-121			
Ethylbenzene	451.8	10.0	"	500.000	ND	90.4	73-124			
Xylenes, total	1362	20.0	"	1500.00	ND	90.8	75-123			
Styrene	439.0	10.0	"	500.000	ND	87.8	70-120			
Bromoform	522.6	10.0	"	500.000	ND	105	70-124			
1,2,3-Trichloropropane	484.6	10.0	"	500.000	ND	96.9	62-135			
trans-1,4-Dichloro-2-butene	947.1	50.0	"	1163.00	ND	81.4	50-120			
1,1,2,2-Tetrachloroethane	478.2	10.0	"	498.500	ND	95.9	63-126			
1,4-Dichlorobenzene	463.1	10.0	"	500.000	ND	92.6	72-119			
1,2-Dichlorobenzene	449.5	10.0	"	500.000	ND	89.9	71-117			
1,2-Dibromo-3-chloropropane	508.0	50.0	"	500.000	ND	102	49-134			

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 34 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0499 - EPA 5030B

Matrix Spike Dup (1GC0499-MSD1)	Source: 1GC0672-16			Prepared & Analyzed: 03/09/23						
Surrogate: Dibromofluoromethane	501		ug/L	503.520		99.6	75-136			
Surrogate: Dibromofluoromethane	501		"	503.520		99.6	80-126			
Surrogate: 1,2-Dichloroethane-d4	504		"	504.080		100	63-138			
Surrogate: 1,2-Dichloroethane-d4	504		"	504.080		100	61-142			
Surrogate: Toluene-d8	502		"	502.360		99.8	82-121			
Surrogate: Toluene-d8	502		"	502.360		99.8	87-116			
Surrogate: 4-Bromofluorobenzene	500		"	504.200		99.2	85-111			
Surrogate: 4-Bromofluorobenzene	500		"	504.200		99.2	80-116			
Chloromethane	227.0	10.0	"	300.000	ND	75.7	61-152	12.6	26	
Vinyl Chloride	360.0	10.0	"	300.000	ND	120	66-149	5.43	23	
Bromomethane	260.2	10.0	"	300.000	ND	86.7	43-171	1.83	29	
Chloroethane	364.1	10.0	"	300.000	ND	121	69-148	4.30	25	
Trichlorofluoromethane	311.3	10.0	"	300.000	ND	104	62-163	3.07	25	
1,1-Dichloroethylene	525.4	10.0	"	500.000	ND	105	70-148	4.36	22	
Acetone	1158	100	"	1088.00	ND	106	45-173	3.79	30	
Methyl Iodide	1432	10.0	"	996.930	ND	144	62-167	3.39	24	
Carbon Disulfide	1063	10.0	"	1046.00	ND	102	71-163	4.14	22	
Methylene Chloride	454.2	50.0	"	500.000	ND	90.8	69-140	3.27	19	
Acrylonitrile	1059	50.0	"	1005.00	ND	105	58-151	4.57	15	
trans-1,2-Dichloroethylene	489.9	10.0	"	500.000	ND	98.0	69-144	4.18	22	
1,1-Dichloroethane	466.1	10.0	"	500.000	ND	93.2	70-138	4.30	20	
Vinyl Acetate	1117	50.0	"	1153.00	ND	96.9	58-142	2.90	24	
cis-1,2-Dichloroethylene	641.9	10.0	"	500.000	ND	128	68-151	1.21	22	
2-Butanone (MEK)	1011	100	"	1056.00	ND	95.8	50-160	3.88	23	
Bromochloromethane	501.4	10.0	"	500.000	ND	100	65-143	0.0598	22	
Chloroform	505.5	10.0	"	500.000	ND	101	71-143	3.29	21	
1,1,1-Trichloroethane	437.8	10.0	"	499.750	ND	87.6	63-133	2.66	23	
Carbon Tetrachloride	561.4	10.0	"	500.000	ND	112	63-142	1.70	22	
Benzene	464.9	10.0	"	500.000	ND	93.0	69-133	2.44	18	
1,2-Dichloroethane	481.9	10.0	"	500.000	ND	96.4	63-138	0.0830	20	
Trichloroethylene	431.4	10.0	"	500.000	ND	86.3	71-133	3.08	23	
1,2-Dichloropropane	478.4	10.0	"	500.000	ND	95.7	69-132	1.51	20	
Dibromomethane	514.1	10.0	"	500.000	ND	103	70-147	5.97	22	
Bromodichloromethane	464.9	10.0	"	500.000	ND	93.0	67-130	0.518	21	
cis-1,3-Dichloropropene	452.1	10.0	"	503.250	ND	89.8	61-126	0.0885	21	
4-Methyl-2-pentanone (MIBK)	1050	50.0	"	1064.00	ND	98.7	55-147	6.17	23	
Toluene	465.4	10.0	"	500.000	ND	93.1	71-133	2.34	19	
trans-1,3-Dichloropropene	445.7	10.0	"	504.250	ND	88.4	63-124	0.924	21	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 35 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0499 - EPA 5030B

Matrix Spike Dup (1GC0499-MSD1)	Source: 1GC0672-16			Prepared & Analyzed: 03/09/23						
1,1,2-Trichloroethane	483.1	10.0	ug/L	500.000	ND	96.6	69-133	1.42	19	
Tetrachloroethylene	385.2	10.0	"	500.000	ND	77.0	70-124	4.19	24	
2-Hexanone (MBK)	1018	50.0	"	1050.00	ND	96.9	53-141	4.45	24	
Dibromochloromethane	490.5	10.0	"	495.000	ND	99.1	74-122	0.531	21	
1,2-Dibromoethane	505.8	10.0	"	500.000	ND	101	66-127	1.80	23	
Chlorobenzene	450.7	10.0	"	500.000	ND	90.1	76-116	3.30	21	
1,1,1,2-Tetrachloroethane	464.2	10.0	"	500.000	ND	92.8	77-121	2.00	25	
Ethylbenzene	434.2	10.0	"	500.000	ND	86.8	73-124	3.97	20	
Xylenes, total	1308	20.0	"	1500.00	ND	87.2	75-123	4.05	20	
Styrene	427.6	10.0	"	500.000	ND	85.5	70-120	2.63	23	
Bromoform	530.1	10.0	"	500.000	ND	106	70-124	1.42	22	
1,2,3-Trichloropropane	504.7	10.0	"	500.000	ND	101	62-135	4.06	28	
trans-1,4-Dichloro-2-butene	974.2	50.0	"	1163.00	ND	83.8	50-120	2.82	26	
1,1,2,2-Tetrachloroethane	494.5	10.0	"	498.500	ND	99.2	63-126	3.35	24	
1,4-Dichlorobenzene	455.0	10.0	"	500.000	ND	91.0	72-119	1.76	24	
1,2-Dichlorobenzene	445.1	10.0	"	500.000	ND	89.0	71-117	0.984	24	
1,2-Dibromo-3-chloropropane	541.1	50.0	"	500.000	ND	108	49-134	6.31	28	

Batch 1GC0566 - EPA 5030B

Blank (1GC0566-BLK1)	Prepared & Analyzed: 03/10/23									
Surrogate: Dibromofluoromethane	55.2		ug/L	50.3520		110	80-126			
Surrogate: Dibromofluoromethane	55.2		"	50.3520		110	75-136			
Surrogate: 1,2-Dichloroethane-d4	57.5		"	50.4080		114	61-142			
Surrogate: 1,2-Dichloroethane-d4	57.5		"	50.4080		114	63-138			
Surrogate: Toluene-d8	52.0		"	50.2360		103	87-116			
Surrogate: Toluene-d8	52.0		"	50.2360		103	82-121			
Surrogate: 4-Bromofluorobenzene	50.4		"	50.4200		99.9	85-111			
Surrogate: 4-Bromofluorobenzene	50.4		"	50.4200		99.9	80-116			
Chloromethane	ND	1.0	"							
Vinyl Chloride	ND	1.0	"							
Bromomethane	ND	1.0	"							
Chloroethane	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,1-Dichloroethylene	ND	1.0	"							
Acetone	ND	10.0	"							
Methyl Iodide	ND	1.0	"							
Carbon Disulfide	ND	1.0	"							
Methylene Chloride	ND	5.0	"							

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 36 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0566 - EPA 5030B

Blank (1GC0566-BLK1)

Prepared & Analyzed: 03/10/23

Acrylonitrile	ND	5.0	ug/L							
trans-1,2-Dichloroethylene	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
Vinyl Acetate	ND	5.0	"							
cis-1,2-Dichloroethylene	ND	1.0	"							
2-Butanone (MEK)	ND	10.0	"							
Bromochloromethane	ND	1.0	"							
Chloroform	2.38	1.0	"							QB-02
1,1,1-Trichloroethane	ND	1.0	"							
Carbon Tetrachloride	ND	1.0	"							
Benzene	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Trichloroethylene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
Dibromomethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
4-Methyl-2-pentanone (MIBK)	ND	5.0	"							
Toluene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
Tetrachloroethylene	ND	1.0	"							
2-Hexanone (MBK)	ND	5.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromoethane	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	2.0	"							
Styrene	ND	1.0	"							
Bromoform	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
trans-1,4-Dichloro-2-butene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 37 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0566 - EPA 5030B

LCS (1GC0566-BS1)

Prepared & Analyzed: 03/10/23

Surrogate: Dibromofluoromethane	50.7		ug/L	50.3520		101	80-126			
Surrogate: Dibromofluoromethane	50.7		"	50.3520		101	75-136			
Surrogate: 1,2-Dichloroethane-d4	50.0		"	50.4080		99.1	61-142			
Surrogate: 1,2-Dichloroethane-d4	50.0		"	50.4080		99.1	63-138			
Surrogate: Toluene-d8	49.3		"	50.2360		98.1	87-116			
Surrogate: Toluene-d8	49.3		"	50.2360		98.1	82-121			
Surrogate: 4-Bromofluorobenzene	50.8		"	50.4200		101	80-116			
Surrogate: 4-Bromofluorobenzene	50.8		"	50.4200		101	85-111			
Chloromethane	28.65	1.0	"	30.0000		95.5	63-155			
Vinyl Chloride	38.00	1.0	"	30.0000		127	70-154			
Bromomethane	29.03	1.0	"	30.0000		96.8	52-176			
Chloroethane	37.58	1.0	"	30.0000		125	72-148			
Trichlorofluoromethane	32.88	1.0	"	30.0000		110	70-152			
1,1-Dichloroethylene	54.20	1.0	"	50.0000		108	70-148			
Acetone	105.8	10.0	"	108.800		97.3	43-172			
Methyl Iodide	142.4	1.0	"	99.6930		143	69-170			
Carbon Disulfide	111.8	1.0	"	104.600		107	72-162			
Methylene Chloride	46.67	5.0	"	50.0000		93.3	68-142			
Acrylonitrile	100.9	5.0	"	100.500		100	67-144			
trans-1,2-Dichloroethylene	50.54	1.0	"	50.0000		101	66-148			
1,1-Dichloroethane	48.06	1.0	"	50.0000		96.1	66-143			
Vinyl Acetate	100.2	5.0	"	115.300		86.9	43-153			
cis-1,2-Dichloroethylene	64.90	1.0	"	50.0000		130	71-149			
2-Butanone (MEK)	92.14	10.0	"	105.600		87.3	52-159			
Bromochloromethane	50.83	1.0	"	50.0000		102	69-143			
Chloroform	53.21	1.0	"	50.0000		106	69-144			
1,1,1-Trichloroethane	46.48	1.0	"	49.9750		93.0	62-129			
Carbon Tetrachloride	59.35	1.0	"	50.0000		119	63-141			
Benzene	47.52	1.0	"	50.0000		95.0	71-134			
1,2-Dichloroethane	48.38	1.0	"	50.0000		96.8	72-132			
Trichloroethylene	44.84	1.0	"	50.0000		89.7	71-135			
1,2-Dichloropropane	48.72	1.0	"	50.0000		97.4	69-136			
Dibromomethane	48.61	1.0	"	50.0000		97.2	73-147			
Bromodichloromethane	46.75	1.0	"	50.0000		93.5	68-129			
cis-1,3-Dichloropropene	46.70	1.0	"	50.3250		92.8	65-134			
4-Methyl-2-pentanone (MIBK)	99.98	5.0	"	106.400		94.0	58-147			
Toluene	47.64	1.0	"	50.0000		95.3	72-133			
trans-1,3-Dichloropropene	45.67	1.0	"	50.4250		90.6	67-130			

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 38 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0566 - EPA 5030B

LCS (1GC0566-BS1)				Prepared & Analyzed: 03/10/23						
1,1,2-Trichloroethane	47.85	1.0	ug/L	50.0000	95.7	69-135				
Tetrachloroethylene	40.83	1.0	"	50.0000	81.7	69-130				
2-Hexanone (MBK)	96.02	5.0	"	105.000	91.4	55-144				
Dibromochloromethane	48.71	1.0	"	49.5000	98.4	73-127				
1,2-Dibromoethane	50.16	1.0	"	50.0000	100	67-132				
Chlorobenzene	46.91	1.0	"	50.0000	93.8	72-123				
1,1,1,2-Tetrachloroethane	47.83	1.0	"	50.0000	95.7	73-127				
Ethylbenzene	45.44	1.0	"	50.0000	90.9	71-127				
Xylenes, total	136.2	2.0	"	150.000	90.8	74-127				
Styrene	44.71	1.0	"	50.0000	89.4	66-126				
Bromoform	52.48	1.0	"	50.0000	105	68-130				
1,2,3-Trichloropropane	48.04	1.0	"	50.0000	96.1	63-136				
trans-1,4-Dichloro-2-butene	100.3	5.0	"	116.300	86.3	54-134				
1,1,2,2-Tetrachloroethane	47.44	1.0	"	49.8500	95.2	61-131				
1,4-Dichlorobenzene	47.22	1.0	"	50.0000	94.4	70-129				
1,2-Dichlorobenzene	45.90	1.0	"	50.0000	91.8	69-126				
1,2-Dibromo-3-chloropropane	51.94	5.0	"	50.0000	104	50-143				

LCS Dup (1GC0566-BSD1)				Prepared & Analyzed: 03/10/23						
Surrogate: Dibromofluoromethane	51.1		ug/L	50.3520	102	75-136				
Surrogate: Dibromofluoromethane	51.1		"	50.3520	102	80-126				
Surrogate: 1,2-Dichloroethane-d4	50.1		"	50.4080	99.4	61-142				
Surrogate: 1,2-Dichloroethane-d4	50.1		"	50.4080	99.4	63-138				
Surrogate: Toluene-d8	49.4		"	50.2360	98.3	87-116				
Surrogate: Toluene-d8	49.4		"	50.2360	98.3	82-121				
Surrogate: 4-Bromofluorobenzene	50.2		"	50.4200	99.5	85-111				
Surrogate: 4-Bromofluorobenzene	50.2		"	50.4200	99.5	80-116				
Chloromethane	27.43	1.0	"	30.0000	91.4	63-155	4.35		24	
Vinyl Chloride	36.55	1.0	"	30.0000	122	70-154	3.89		25	
Bromomethane	29.53	1.0	"	30.0000	98.4	52-176	1.71		27	
Chloroethane	36.50	1.0	"	30.0000	122	72-148	2.92		25	
Trichlorofluoromethane	31.50	1.0	"	30.0000	105	70-152	4.29		26	
1,1-Dichloroethylene	52.80	1.0	"	50.0000	106	70-148	2.62		24	
Acetone	106.4	10.0	"	108.800	97.8	43-172	0.528		30	
Methyl Iodide	127.0	1.0	"	99.6930	127	69-170	11.4		30	
Carbon Disulfide	108.2	1.0	"	104.600	103	72-162	3.27		24	
Methylene Chloride	46.13	5.0	"	50.0000	92.3	68-142	1.16		21	
Acrylonitrile	103.0	5.0	"	100.500	102	67-144	2.08		24	
trans-1,2-Dichloroethylene	49.79	1.0	"	50.0000	99.6	66-148	1.50		27	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 39 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0566 - EPA 5030B

LCS Dup (1GC0566-BSD1)

Prepared & Analyzed: 03/10/23

1,1-Dichloroethane	47.74	1.0	ug/L	50.0000		95.5	66-143	0.668	24	
Vinyl Acetate	64.50	5.0	"	115.300		55.9	43-153	43.4	30	QR-02
cis-1,2-Dichloroethylene	62.19	1.0	"	50.0000		124	71-149	4.26	26	
2-Butanone (MEK)	78.30	10.0	"	105.600		74.1	52-159	16.2	27	
Bromochloromethane	51.45	1.0	"	50.0000		103	69-143	1.21	23	
Chloroform	52.26	1.0	"	50.0000		105	69-144	1.80	23	
1,1,1-Trichloroethane	45.23	1.0	"	49.9750		90.5	62-129	2.73	24	
Carbon Tetrachloride	57.59	1.0	"	50.0000		115	63-141	3.01	25	
Benzene	46.94	1.0	"	50.0000		93.9	71-134	1.23	24	
1,2-Dichloroethane	48.21	1.0	"	50.0000		96.4	72-132	0.352	24	
Trichloroethylene	43.99	1.0	"	50.0000		88.0	71-135	1.91	24	
1,2-Dichloropropane	47.90	1.0	"	50.0000		95.8	69-136	1.70	24	
Dibromomethane	48.25	1.0	"	50.0000		96.5	73-147	0.743	25	
Bromodichloromethane	46.34	1.0	"	50.0000		92.7	68-129	0.881	22	
cis-1,3-Dichloropropene	45.73	1.0	"	50.3250		90.9	65-134	2.10	23	
4-Methyl-2-pentanone (MIBK)	97.76	5.0	"	106.400		91.9	58-147	2.25	27	
Toluene	46.51	1.0	"	50.0000		93.0	72-133	2.40	24	
trans-1,3-Dichloropropene	45.22	1.0	"	50.4250		89.7	67-130	0.990	24	
1,1,2-Trichloroethane	47.89	1.0	"	50.0000		95.8	69-135	0.0836	23	
Tetrachloroethylene	39.47	1.0	"	50.0000		78.9	69-130	3.39	25	
2-Hexanone (MBK)	93.11	5.0	"	105.000		88.7	55-144	3.08	25	
Dibromochloromethane	50.06	1.0	"	49.5000		101	73-127	2.73	22	
1,2-Dibromoethane	50.55	1.0	"	50.0000		101	67-132	0.774	24	
Chlorobenzene	46.08	1.0	"	50.0000		92.2	72-123	1.79	23	
1,1,1,2-Tetrachloroethane	47.37	1.0	"	50.0000		94.7	73-127	0.966	24	
Ethylbenzene	44.47	1.0	"	50.0000		88.9	71-127	2.16	26	
Xylenes, total	133.0	2.0	"	150.000		88.7	74-127	2.34	25	
Styrene	43.91	1.0	"	50.0000		87.8	66-126	1.81	23	
Bromoform	53.85	1.0	"	50.0000		108	68-130	2.58	23	
1,2,3-Trichloropropane	49.82	1.0	"	50.0000		99.6	63-136	3.64	24	
trans-1,4-Dichloro-2-butene	98.77	5.0	"	116.300		84.9	54-134	1.57	27	
1,1,2,2-Tetrachloroethane	48.92	1.0	"	49.8500		98.1	61-131	3.07	29	
1,4-Dichlorobenzene	46.23	1.0	"	50.0000		92.5	70-129	2.12	24	
1,2-Dichlorobenzene	45.52	1.0	"	50.0000		91.0	69-126	0.831	26	
1,2-Dibromo-3-chloropropane	53.19	5.0	"	50.0000		106	50-143	2.38	30	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 40 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0566 - EPA 5030B

Matrix Spike (1GC0566-MS1)

Source: 1GC0745-09

Prepared & Analyzed: 03/10/23

Surrogate: Dibromofluoromethane	509		ug/L	503.520		101	75-136			
Surrogate: Dibromofluoromethane	509		"	503.520		101	80-126			
Surrogate: 1,2-Dichloroethane-d4	505		"	504.080		100	61-142			
Surrogate: 1,2-Dichloroethane-d4	505		"	504.080		100	63-138			
Surrogate: Toluene-d8	500		"	502.360		99.5	87-116			
Surrogate: Toluene-d8	500		"	502.360		99.5	82-121			
Surrogate: 4-Bromofluorobenzene	503		"	504.200		99.7	85-111			
Surrogate: 4-Bromofluorobenzene	503		"	504.200		99.7	80-116			
Chloromethane	243.6	10.0	"	300.000	ND	81.2	61-152			
Vinyl Chloride	384.5	10.0	"	300.000	ND	128	66-149			
Bromomethane	288.9	10.0	"	300.000	ND	96.3	43-171			
Chloroethane	385.8	10.0	"	300.000	ND	129	69-148			
Trichlorofluoromethane	333.3	10.0	"	300.000	ND	111	62-163			
1,1-Dichloroethylene	563.7	10.0	"	500.000	ND	113	70-148			
Acetone	1149	100	"	1088.00	ND	106	45-173			
Methyl Iodide	1163	10.0	"	996.930	ND	117	62-167			
Carbon Disulfide	1151	10.0	"	1046.00	ND	110	71-163			
Methylene Chloride	473.4	50.0	"	500.000	ND	94.7	69-140			
Acrylonitrile	1072	50.0	"	1005.00	ND	107	58-151			
trans-1,2-Dichloroethylene	518.5	10.0	"	500.000	ND	104	69-144			
1,1-Dichloroethane	497.1	10.0	"	500.000	ND	99.4	70-138			
Vinyl Acetate	1139	50.0	"	1153.00	ND	98.8	58-142			
cis-1,2-Dichloroethylene	669.1	10.0	"	500.000	ND	134	68-151			
2-Butanone (MEK)	1006	100	"	1056.00	ND	95.2	50-160			
Bromochloromethane	501.4	10.0	"	500.000	ND	100	65-143			
Chloroform	517.2	10.0	"	500.000	ND	103	71-143			
1,1,1-Trichloroethane	459.0	10.0	"	499.750	ND	91.8	63-133			
Carbon Tetrachloride	574.2	10.0	"	500.000	ND	115	63-142			
Benzene	476.9	10.0	"	500.000	ND	95.4	69-133			
1,2-Dichloroethane	485.7	10.0	"	500.000	ND	97.1	63-138			
Trichloroethylene	452.5	10.0	"	500.000	ND	90.5	71-133			
1,2-Dichloropropane	485.6	10.0	"	500.000	ND	97.1	69-132			
Dibromomethane	454.9	10.0	"	500.000	ND	91.0	70-147			
Bromodichloromethane	463.6	10.0	"	500.000	ND	92.7	67-130			
cis-1,3-Dichloropropene	449.0	10.0	"	503.250	ND	89.2	61-126			
4-Methyl-2-pentanone (MIBK)	1022	50.0	"	1064.00	ND	96.1	55-147			
Toluene	475.6	10.0	"	500.000	ND	95.1	71-133			
trans-1,3-Dichloropropene	439.5	10.0	"	504.250	ND	87.2	63-124			

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 41 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0566 - EPA 5030B

Matrix Spike (1GC0566-MS1)	Source: 1GC0745-09			Prepared & Analyzed: 03/10/23						
1,1,2-Trichloroethane	475.7	10.0	ug/L	500.000	ND	95.1	69-133			
Tetrachloroethylene	398.0	10.0	"	500.000	ND	79.6	70-124			
2-Hexanone (MBK)	996.4	50.0	"	1050.00	ND	94.9	53-141			
Dibromochloromethane	482.5	10.0	"	495.000	ND	97.5	74-122			
1,2-Dibromoethane	502.6	10.0	"	500.000	ND	101	66-127			
Chlorobenzene	458.4	10.0	"	500.000	ND	91.7	76-116			
1,1,1,2-Tetrachloroethane	467.6	10.0	"	500.000	ND	93.5	77-121			
Ethylbenzene	449.3	10.0	"	500.000	ND	89.9	73-124			
Xylenes, total	1343	20.0	"	1500.00	ND	89.5	75-123			
Styrene	436.6	10.0	"	500.000	ND	87.3	70-120			
Bromoform	520.8	10.0	"	500.000	ND	104	70-124			
1,2,3-Trichloropropane	492.8	10.0	"	500.000	ND	98.6	62-135			
trans-1,4-Dichloro-2-butene	953.5	50.0	"	1163.00	ND	82.0	50-120			
1,1,2,2-Tetrachloroethane	483.7	10.0	"	498.500	ND	97.0	63-126			
1,4-Dichlorobenzene	459.6	10.0	"	500.000	ND	91.9	72-119			
1,2-Dichlorobenzene	449.3	10.0	"	500.000	ND	89.9	71-117			
1,2-Dibromo-3-chloropropane	522.7	50.0	"	500.000	ND	105	49-134			

Matrix Spike Dup (1GC0566-MSD1)	Source: 1GC0745-09			Prepared & Analyzed: 03/10/23						
Surrogate: Dibromofluoromethane	512		ug/L	503.520		102	80-126			
Surrogate: Dibromofluoromethane	512		"	503.520		102	75-136			
Surrogate: 1,2-Dichloroethane-d4	514		"	504.080		102	63-138			
Surrogate: 1,2-Dichloroethane-d4	514		"	504.080		102	61-142			
Surrogate: Toluene-d8	504		"	502.360		100	87-116			
Surrogate: Toluene-d8	504		"	502.360		100	82-121			
Surrogate: 4-Bromofluorobenzene	506		"	504.200		100	85-111			
Surrogate: 4-Bromofluorobenzene	506		"	504.200		100	80-116			
Chloromethane	256.4	10.0	"	300.000	ND	85.5	61-152	5.12	26	
Vinyl Chloride	365.8	10.0	"	300.000	ND	122	66-149	4.98	23	
Bromomethane	283.8	10.0	"	300.000	ND	94.6	43-171	1.78	29	
Chloroethane	365.2	10.0	"	300.000	ND	122	69-148	5.49	25	
Trichlorofluoromethane	316.1	10.0	"	300.000	ND	105	62-163	5.30	25	
1,1-Dichloroethylene	530.5	10.0	"	500.000	ND	106	70-148	6.07	22	
Acetone	1151	100	"	1088.00	ND	106	45-173	0.217	30	
Methyl Iodide	1371	10.0	"	996.930	ND	138	62-167	16.5	24	
Carbon Disulfide	1081	10.0	"	1046.00	ND	103	71-163	6.26	22	
Methylene Chloride	468.2	50.0	"	500.000	ND	93.6	69-140	1.10	19	
Acrylonitrile	1078	50.0	"	1005.00	ND	107	58-151	0.633	15	
trans-1,2-Dichloroethylene	504.6	10.0	"	500.000	ND	101	69-144	2.72	22	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 42 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0566 - EPA 5030B

Matrix Spike Dup (1GC0566-MSD1)	Source: 1GC0745-09			Prepared & Analyzed: 03/10/23						
1,1-Dichloroethane	478.5	10.0	ug/L	500.000	ND	95.7	70-138	3.81	20	
Vinyl Acetate	1143	50.0	"	1153.00	ND	99.1	58-142	0.368	24	
cis-1,2-Dichloroethylene	656.1	10.0	"	500.000	ND	131	68-151	1.96	22	
2-Butanone (MEK)	1025	100	"	1056.00	ND	97.1	50-160	1.90	23	
Bromochloromethane	507.9	10.0	"	500.000	ND	102	65-143	1.29	22	
Chloroform	501.3	10.0	"	500.000	ND	100	71-143	3.12	21	
1,1,1-Trichloroethane	446.2	10.0	"	499.750	ND	89.3	63-133	2.83	23	
Carbon Tetrachloride	576.1	10.0	"	500.000	ND	115	63-142	0.330	22	
Benzene	462.7	10.0	"	500.000	ND	92.5	69-133	3.02	18	
1,2-Dichloroethane	485.9	10.0	"	500.000	ND	97.2	63-138	0.0412	20	
Trichloroethylene	434.0	10.0	"	500.000	ND	86.8	71-133	4.17	23	
1,2-Dichloropropane	480.7	10.0	"	500.000	ND	96.1	69-132	1.01	20	
Dibromomethane	499.3	10.0	"	500.000	ND	99.9	70-147	9.31	22	
Bromodichloromethane	464.3	10.0	"	500.000	ND	92.9	67-130	0.151	21	
cis-1,3-Dichloropropene	448.8	10.0	"	503.250	ND	89.2	61-126	0.0446	21	
4-Methyl-2-pentanone (MIBK)	1042	50.0	"	1064.00	ND	97.9	55-147	1.87	23	
Toluene	464.7	10.0	"	500.000	ND	92.9	71-133	2.32	19	
trans-1,3-Dichloropropene	440.0	10.0	"	504.250	ND	87.3	63-124	0.114	21	
1,1,2-Trichloroethane	478.7	10.0	"	500.000	ND	95.7	69-133	0.629	19	
Tetrachloroethylene	379.7	10.0	"	500.000	ND	75.9	70-124	4.71	24	
2-Hexanone (MBK)	1004	50.0	"	1050.00	ND	95.6	53-141	0.780	24	
Dibromochloromethane	480.2	10.0	"	495.000	ND	97.0	74-122	0.478	21	
1,2-Dibromoethane	497.0	10.0	"	500.000	ND	99.4	66-127	1.12	23	
Chlorobenzene	444.8	10.0	"	500.000	ND	89.0	76-116	3.01	21	
1,1,1,2-Tetrachloroethane	457.8	10.0	"	500.000	ND	91.6	77-121	2.12	25	
Ethylbenzene	429.2	10.0	"	500.000	ND	85.8	73-124	4.58	20	
Xylenes, total	1287	20.0	"	1500.00	ND	85.8	75-123	4.30	20	
Styrene	423.8	10.0	"	500.000	ND	84.8	70-120	2.98	23	
Bromoform	527.6	10.0	"	500.000	ND	106	70-124	1.30	22	
1,2,3-Trichloropropane	493.1	10.0	"	500.000	ND	98.6	62-135	0.0609	28	
trans-1,4-Dichloro-2-butene	959.0	50.0	"	1163.00	ND	82.5	50-120	0.575	26	
1,1,2,2-Tetrachloroethane	487.7	10.0	"	498.500	ND	97.8	63-126	0.824	24	
1,4-Dichlorobenzene	447.0	10.0	"	500.000	ND	89.4	72-119	2.78	24	
1,2-Dichlorobenzene	441.2	10.0	"	500.000	ND	88.2	71-117	1.82	24	
1,2-Dibromo-3-chloropropane	537.8	50.0	"	500.000	ND	108	49-134	2.85	28	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 43 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0575 - EPA 5030B

Blank (1GC0575-BLK1)

Prepared & Analyzed: 03/11/23

Surrogate: Dibromofluoromethane	52.6		ug/L	50.3520		104	75-136			
Surrogate: Dibromofluoromethane	52.6		"	50.3520		104	80-126			
Surrogate: 1,2-Dichloroethane-d4	50.4		"	50.4080		100	63-138			
Surrogate: 1,2-Dichloroethane-d4	50.4		"	50.4080		100	61-142			
Surrogate: Toluene-d8	52.9		"	50.2360		105	87-116			
Surrogate: Toluene-d8	52.9		"	50.2360		105	82-121			
Surrogate: 4-Bromofluorobenzene	50.3		"	50.4200		99.7	80-116			
Surrogate: 4-Bromofluorobenzene	50.3		"	50.4200		99.7	85-111			
Chloromethane	ND	1.0	"							
Vinyl Chloride	ND	1.0	"							
Bromomethane	ND	1.0	"							
Chloroethane	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,1-Dichloroethylene	ND	1.0	"							
Acetone	ND	10.0	"							
Methyl Iodide	ND	1.0	"							
Carbon Disulfide	ND	1.0	"							
Methylene Chloride	ND	5.0	"							
Acrylonitrile	ND	5.0	"							
trans-1,2-Dichloroethylene	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
Vinyl Acetate	ND	5.0	"							
cis-1,2-Dichloroethylene	ND	1.0	"							
2-Butanone (MEK)	ND	10.0	"							
Bromochloromethane	ND	1.0	"							
Chloroform	2.44	1.0	"							QB-02
1,1,1-Trichloroethane	ND	1.0	"							
Carbon Tetrachloride	ND	1.0	"							
Benzene	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Trichloroethylene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
Dibromomethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
4-Methyl-2-pentanone (MIBK)	ND	5.0	"							
Toluene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 44 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0575 - EPA 5030B

Blank (1GC0575-BLK1)				Prepared & Analyzed: 03/11/23						
1,1,2-Trichloroethane	ND	1.0	ug/L							
Tetrachloroethylene	ND	1.0	"							
2-Hexanone (MBK)	ND	5.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromoethane	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	2.0	"							
Styrene	ND	1.0	"							
Bromoform	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
trans-1,4-Dichloro-2-butene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							

LCS (1GC0575-BS1)				Prepared & Analyzed: 03/11/23						
Surrogate: Dibromofluoromethane	52.4		ug/L	50.3520		104	75-136			
Surrogate: Dibromofluoromethane	52.4		"	50.3520		104	80-126			
Surrogate: 1,2-Dichloroethane-d4	50.5		"	50.4080		100	61-142			
Surrogate: 1,2-Dichloroethane-d4	50.5		"	50.4080		100	63-138			
Surrogate: Toluene-d8	52.3		"	50.2360		104	87-116			
Surrogate: Toluene-d8	52.3		"	50.2360		104	82-121			
Surrogate: 4-Bromofluorobenzene	51.8		"	50.4200		103	80-116			
Surrogate: 4-Bromofluorobenzene	51.8		"	50.4200		103	85-111			
Chloromethane	36.21	1.0	"	30.0000		121	63-155			
Vinyl Chloride	35.89	1.0	"	30.0000		120	70-154			
Bromomethane	30.69	1.0	"	30.0000		102	52-176			
Chloroethane	36.14	1.0	"	30.0000		120	72-148			
Trichlorofluoromethane	30.19	1.0	"	30.0000		101	70-152			
1,1-Dichloroethylene	57.63	1.0	"	50.0000		115	70-148			
Acetone	103.5	10.0	"	108.800		95.1	43-172			
Methyl Iodide	127.5	1.0	"	99.6930		128	69-170			
Carbon Disulfide	109.3	1.0	"	104.600		104	72-162			
Methylene Chloride	58.07	5.0	"	50.0000		116	68-142			
Acrylonitrile	132.3	5.0	"	100.500		132	67-144			
trans-1,2-Dichloroethylene	54.70	1.0	"	50.0000		109	66-148			

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 45 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0575 - EPA 5030B

LCS (1GC0575-BS1)

Prepared & Analyzed: 03/11/23

1,1-Dichloroethane	54.40	1.0	ug/L	50.0000	109	66-143
Vinyl Acetate	113.6	5.0	"	115.300	98.6	43-153
cis-1,2-Dichloroethylene	54.07	1.0	"	50.0000	108	71-149
2-Butanone (MEK)	107.7	10.0	"	105.600	102	52-159
Bromochloromethane	56.07	1.0	"	50.0000	112	69-143
Chloroform	55.48	1.0	"	50.0000	111	69-144
1,1,1-Trichloroethane	48.06	1.0	"	49.9750	96.2	62-129
Carbon Tetrachloride	52.00	1.0	"	50.0000	104	63-141
Benzene	52.67	1.0	"	50.0000	105	71-134
1,2-Dichloroethane	49.31	1.0	"	50.0000	98.6	72-132
Trichloroethylene	51.04	1.0	"	50.0000	102	71-135
1,2-Dichloropropane	55.32	1.0	"	50.0000	111	69-136
Dibromomethane	53.66	1.0	"	50.0000	107	73-147
Bromodichloromethane	49.83	1.0	"	50.0000	99.7	68-129
cis-1,3-Dichloropropene	51.31	1.0	"	50.3250	102	65-134
4-Methyl-2-pentanone (MIBK)	111.1	5.0	"	106.400	104	58-147
Toluene	52.07	1.0	"	50.0000	104	72-133
trans-1,3-Dichloropropene	50.12	1.0	"	50.4250	99.4	67-130
1,1,2-Trichloroethane	51.43	1.0	"	50.0000	103	69-135
Tetrachloroethylene	40.53	1.0	"	50.0000	81.1	69-130
2-Hexanone (MBK)	103.2	5.0	"	105.000	98.3	55-144
Dibromochloromethane	48.13	1.0	"	49.5000	97.2	73-127
1,2-Dibromoethane	48.53	1.0	"	50.0000	97.1	67-132
Chlorobenzene	48.62	1.0	"	50.0000	97.2	72-123
1,1,1,2-Tetrachloroethane	47.05	1.0	"	50.0000	94.1	73-127
Ethylbenzene	48.38	1.0	"	50.0000	96.8	71-127
Xylenes, total	146.4	2.0	"	150.000	97.6	74-127
Styrene	46.39	1.0	"	50.0000	92.8	66-126
Bromoform	48.19	1.0	"	50.0000	96.4	68-130
1,2,3-Trichloropropane	48.74	1.0	"	50.0000	97.5	63-136
trans-1,4-Dichloro-2-butene	102.2	5.0	"	116.300	87.9	54-134
1,1,2,2-Tetrachloroethane	48.11	1.0	"	49.8500	96.5	61-131
1,4-Dichlorobenzene	48.79	1.0	"	50.0000	97.6	70-129
1,2-Dichlorobenzene	49.28	1.0	"	50.0000	98.6	69-126
1,2-Dibromo-3-chloropropane	43.86	5.0	"	50.0000	87.7	50-143

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 46 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0575 - EPA 5030B

LCS (1GC0575-BS2)

Prepared: 03/11/23 Analyzed: 03/12/23

Surrogate: Dibromofluoromethane	51.7		ug/L	50.3520		103	80-126			
Surrogate: Dibromofluoromethane	51.7		"	50.3520		103	75-136			
Surrogate: 1,2-Dichloroethane-d4	50.0		"	50.4080		99.2	63-138			
Surrogate: 1,2-Dichloroethane-d4	50.0		"	50.4080		99.2	61-142			
Surrogate: Toluene-d8	51.8		"	50.2360		103	82-121			
Surrogate: Toluene-d8	51.8		"	50.2360		103	87-116			
Surrogate: 4-Bromofluorobenzene	51.3		"	50.4200		102	85-111			
Surrogate: 4-Bromofluorobenzene	51.3		"	50.4200		102	80-116			
Chloromethane	35.38	1.0	"	30.0000		118	63-155			
Vinyl Chloride	36.15	1.0	"	30.0000		120	70-154			
Bromomethane	30.31	1.0	"	30.0000		101	52-176			
Chloroethane	36.03	1.0	"	30.0000		120	72-148			
Trichlorofluoromethane	29.43	1.0	"	30.0000		98.1	70-152			
1,1-Dichloroethylene	57.16	1.0	"	50.0000		114	70-148			
Acetone	126.8	10.0	"	108.800		117	43-172			
Methyl Iodide	120.9	1.0	"	99.6930		121	69-170			
Carbon Disulfide	106.0	1.0	"	104.600		101	72-162			
Methylene Chloride	58.23	5.0	"	50.0000		116	68-142			
Acrylonitrile	137.0	5.0	"	100.500		136	67-144			
trans-1,2-Dichloroethylene	55.40	1.0	"	50.0000		111	66-148			
1,1-Dichloroethane	54.63	1.0	"	50.0000		109	66-143			
Vinyl Acetate	42.35	5.0	"	115.300		36.7	43-153			QS-01
cis-1,2-Dichloroethylene	54.28	1.0	"	50.0000		109	71-149			
2-Butanone (MEK)	80.66	10.0	"	105.600		76.4	52-159			
Bromochloromethane	56.60	1.0	"	50.0000		113	69-143			
Chloroform	56.19	1.0	"	50.0000		112	69-144			
1,1,1-Trichloroethane	47.95	1.0	"	49.9750		95.9	62-129			
Carbon Tetrachloride	52.28	1.0	"	50.0000		105	63-141			
Benzene	53.84	1.0	"	50.0000		108	71-134			
1,2-Dichloroethane	48.93	1.0	"	50.0000		97.9	72-132			
Trichloroethylene	52.24	1.0	"	50.0000		104	71-135			
1,2-Dichloropropane	56.40	1.0	"	50.0000		113	69-136			
Dibromomethane	54.43	1.0	"	50.0000		109	73-147			
Bromodichloromethane	50.21	1.0	"	50.0000		100	68-129			
cis-1,3-Dichloropropene	47.96	1.0	"	50.3250		95.3	65-134			
4-Methyl-2-pentanone (MIBK)	118.3	5.0	"	106.400		111	58-147			
Toluene	52.67	1.0	"	50.0000		105	72-133			
trans-1,3-Dichloropropene	47.27	1.0	"	50.4250		93.7	67-130			

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 47 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0575 - EPA 5030B

LCS (1GC0575-BS2)		Prepared: 03/11/23 Analyzed: 03/12/23								
1,1,2-Trichloroethane	53.47	1.0	ug/L	50.0000	107	69-135				
Tetrachloroethylene	40.60	1.0	"	50.0000	81.2	69-130				
2-Hexanone (MBK)	108.8	5.0	"	105.000	104	55-144				
Dibromochloromethane	48.70	1.0	"	49.5000	98.4	73-127				
1,2-Dibromoethane	50.23	1.0	"	50.0000	100	67-132				
Chlorobenzene	49.90	1.0	"	50.0000	99.8	72-123				
1,1,1,2-Tetrachloroethane	48.98	1.0	"	50.0000	98.0	73-127				
Ethylbenzene	49.36	1.0	"	50.0000	98.7	71-127				
Xylenes, total	149.0	2.0	"	150.000	99.3	74-127				
Styrene	47.51	1.0	"	50.0000	95.0	66-126				
Bromoform	49.84	1.0	"	50.0000	99.7	68-130				
1,2,3-Trichloropropane	51.57	1.0	"	50.0000	103	63-136				
trans-1,4-Dichloro-2-butene	90.67	5.0	"	116.300	78.0	54-134				
1,1,2,2-Tetrachloroethane	49.85	1.0	"	49.8500	100	61-131				
1,4-Dichlorobenzene	49.00	1.0	"	50.0000	98.0	70-129				
1,2-Dichlorobenzene	49.83	1.0	"	50.0000	99.7	69-126				
1,2-Dibromo-3-chloropropane	44.56	5.0	"	50.0000	89.1	50-143				

LCS Dup (1GC0575-BSD1)		Prepared & Analyzed: 03/11/23								
Surrogate: Dibromofluoromethane	52.8		ug/L	50.3520	105	75-136				
Surrogate: Dibromofluoromethane	52.8		"	50.3520	105	80-126				
Surrogate: 1,2-Dichloroethane-d4	51.2		"	50.4080	102	61-142				
Surrogate: 1,2-Dichloroethane-d4	51.2		"	50.4080	102	63-138				
Surrogate: Toluene-d8	52.1		"	50.2360	104	82-121				
Surrogate: Toluene-d8	52.1		"	50.2360	104	87-116				
Surrogate: 4-Bromofluorobenzene	51.4		"	50.4200	102	80-116				
Surrogate: 4-Bromofluorobenzene	51.4		"	50.4200	102	85-111				
Chloromethane	37.11	1.0	"	30.0000	124	63-155	2.45		24	
Vinyl Chloride	37.45	1.0	"	30.0000	125	70-154	4.25		25	
Bromomethane	32.23	1.0	"	30.0000	107	52-176	4.90		27	
Chloroethane	37.02	1.0	"	30.0000	123	72-148	2.41		25	
Trichlorofluoromethane	31.53	1.0	"	30.0000	105	70-152	4.34		26	
1,1-Dichloroethylene	60.32	1.0	"	50.0000	121	70-148	4.56		24	
Acetone	120.0	10.0	"	108.800	110	43-172	14.8		30	
Methyl Iodide	129.9	1.0	"	99.6930	130	69-170	1.86		30	
Carbon Disulfide	113.4	1.0	"	104.600	108	72-162	3.68		24	
Methylene Chloride	59.20	5.0	"	50.0000	118	68-142	1.93		21	
Acrylonitrile	143.4	5.0	"	100.500	143	67-144	8.06		24	
trans-1,2-Dichloroethylene	57.47	1.0	"	50.0000	115	66-148	4.94		27	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 48 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0575 - EPA 5030B

LCS Dup (1GC0575-BSD1)				Prepared & Analyzed: 03/11/23						
1,1-Dichloroethane	56.73	1.0	ug/L	50.0000	113	66-143	4.19	24		
Vinyl Acetate	108.4	5.0	"	115.300	94.0	43-153	4.75	30		
cis-1,2-Dichloroethylene	55.27	1.0	"	50.0000	111	71-149	2.19	26		
2-Butanone (MEK)	113.9	10.0	"	105.600	108	52-159	5.63	27		
Bromochloromethane	56.92	1.0	"	50.0000	114	69-143	1.50	23		
Chloroform	57.44	1.0	"	50.0000	115	69-144	3.47	23		
1,1,1-Trichloroethane	49.95	1.0	"	49.9750	99.9	62-129	3.86	24		
Carbon Tetrachloride	54.25	1.0	"	50.0000	108	63-141	4.24	25		
Benzene	54.33	1.0	"	50.0000	109	71-134	3.10	24		
1,2-Dichloroethane	49.94	1.0	"	50.0000	99.9	72-132	1.27	24		
Trichloroethylene	53.32	1.0	"	50.0000	107	71-135	4.37	24		
1,2-Dichloropropane	56.07	1.0	"	50.0000	112	69-136	1.35	24		
Dibromomethane	54.78	1.0	"	50.0000	110	73-147	2.07	25		
Bromodichloromethane	49.94	1.0	"	50.0000	99.9	68-129	0.221	22		
cis-1,3-Dichloropropene	52.55	1.0	"	50.3250	104	65-134	2.39	23		
4-Methyl-2-pentanone (MIBK)	115.9	5.0	"	106.400	109	58-147	4.23	27		
Toluene	53.18	1.0	"	50.0000	106	72-133	2.11	24		
trans-1,3-Dichloropropene	50.91	1.0	"	50.4250	101	67-130	1.56	24		
1,1,2-Trichloroethane	52.97	1.0	"	50.0000	106	69-135	2.95	23		
Tetrachloroethylene	41.92	1.0	"	50.0000	83.8	69-130	3.37	25		
2-Hexanone (MBK)	108.6	5.0	"	105.000	103	55-144	5.05	25		
Dibromochloromethane	49.36	1.0	"	49.5000	99.7	73-127	2.52	22		
1,2-Dibromoethane	49.60	1.0	"	50.0000	99.2	67-132	2.18	24		
Chlorobenzene	50.31	1.0	"	50.0000	101	72-123	3.42	23		
1,1,1,2-Tetrachloroethane	49.40	1.0	"	50.0000	98.8	73-127	4.87	24		
Ethylbenzene	50.13	1.0	"	50.0000	100	71-127	3.55	26		
Xylenes, total	150.8	2.0	"	150.000	101	74-127	2.91	25		
Styrene	48.00	1.0	"	50.0000	96.0	66-126	3.41	23		
Bromoform	50.12	1.0	"	50.0000	100	68-130	3.93	23		
1,2,3-Trichloropropane	51.46	1.0	"	50.0000	103	63-136	5.43	24		
trans-1,4-Dichloro-2-butene	108.4	5.0	"	116.300	93.2	54-134	5.79	27		
1,1,2,2-Tetrachloroethane	49.29	1.0	"	49.8500	98.9	61-131	2.42	29		
1,4-Dichlorobenzene	49.75	1.0	"	50.0000	99.5	70-129	1.95	24		
1,2-Dichlorobenzene	49.78	1.0	"	50.0000	99.6	69-126	1.01	26		
1,2-Dibromo-3-chloropropane	47.86	5.0	"	50.0000	95.7	50-143	8.72	30		

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 49 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0575 - EPA 5030B

LCS Dup (1GC0575-BSD2)

Prepared: 03/11/23 Analyzed: 03/12/23

Surrogate: Dibromofluoromethane	51.4		ug/L	50.3520		102	80-126			
Surrogate: Dibromofluoromethane	51.4		"	50.3520		102	75-136			
Surrogate: 1,2-Dichloroethane-d4	50.5		"	50.4080		100	63-138			
Surrogate: 1,2-Dichloroethane-d4	50.5		"	50.4080		100	61-142			
Surrogate: Toluene-d8	51.9		"	50.2360		103	87-116			
Surrogate: Toluene-d8	51.9		"	50.2360		103	82-121			
Surrogate: 4-Bromofluorobenzene	52.1		"	50.4200		103	80-116			
Surrogate: 4-Bromofluorobenzene	52.1		"	50.4200		103	85-111			
Chloromethane	35.14	1.0	"	30.0000		117	63-155	0.681	24	
Vinyl Chloride	35.95	1.0	"	30.0000		120	70-154	0.555	25	
Bromomethane	30.53	1.0	"	30.0000		102	52-176	0.723	27	
Chloroethane	36.47	1.0	"	30.0000		122	72-148	1.21	25	
Trichlorofluoromethane	29.67	1.0	"	30.0000		98.9	70-152	0.812	26	
1,1-Dichloroethylene	57.91	1.0	"	50.0000		116	70-148	1.30	24	
Acetone	127.0	10.0	"	108.800		117	43-172	0.221	30	
Methyl Iodide	123.8	1.0	"	99.6930		124	69-170	2.40	30	
Carbon Disulfide	107.1	1.0	"	104.600		102	72-162	0.967	24	
Methylene Chloride	57.77	5.0	"	50.0000		116	68-142	0.793	21	
Acrylonitrile	141.3	5.0	"	100.500		141	67-144	3.07	24	
trans-1,2-Dichloroethylene	55.78	1.0	"	50.0000		112	66-148	0.684	27	
1,1-Dichloroethane	54.49	1.0	"	50.0000		109	66-143	0.257	24	
Vinyl Acetate	67.95	5.0	"	115.300		58.9	43-153	46.4	30	QR-02
cis-1,2-Dichloroethylene	52.90	1.0	"	50.0000		106	71-149	2.58	26	
2-Butanone (MEK)	97.18	10.0	"	105.600		92.0	52-159	18.6	27	
Bromochloromethane	56.36	1.0	"	50.0000		113	69-143	0.425	23	
Chloroform	56.08	1.0	"	50.0000		112	69-144	0.196	23	
1,1,1-Trichloroethane	48.81	1.0	"	49.9750		97.7	62-129	1.78	24	
Carbon Tetrachloride	52.71	1.0	"	50.0000		105	63-141	0.819	25	
Benzene	53.78	1.0	"	50.0000		108	71-134	0.112	24	
1,2-Dichloroethane	49.81	1.0	"	50.0000		99.6	72-132	1.78	24	
Trichloroethylene	52.72	1.0	"	50.0000		105	71-135	0.915	24	
1,2-Dichloropropane	57.30	1.0	"	50.0000		115	69-136	1.58	24	
Dibromomethane	54.53	1.0	"	50.0000		109	73-147	0.184	25	
Bromodichloromethane	49.97	1.0	"	50.0000		99.9	68-129	0.479	22	
cis-1,3-Dichloropropene	47.55	1.0	"	50.3250		94.5	65-134	0.859	23	
4-Methyl-2-pentanone (MIBK)	119.1	5.0	"	106.400		112	58-147	0.725	27	
Toluene	52.86	1.0	"	50.0000		106	72-133	0.360	24	
trans-1,3-Dichloropropene	47.11	1.0	"	50.4250		93.4	67-130	0.339	24	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 50 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0575 - EPA 5030B

LCS Dup (1GC0575-BSD2)		Prepared: 03/11/23 Analyzed: 03/12/23								
1,1,2-Trichloroethane	52.48	1.0	ug/L	50.0000	105	69-135	1.87	23		
Tetrachloroethylene	40.31	1.0	"	50.0000	80.6	69-130	0.717	25		
2-Hexanone (MBK)	111.2	5.0	"	105.000	106	55-144	2.15	25		
Dibromochloromethane	48.73	1.0	"	49.5000	98.4	73-127	0.0616	22		
1,2-Dibromoethane	49.82	1.0	"	50.0000	99.6	67-132	0.820	24		
Chlorobenzene	49.15	1.0	"	50.0000	98.3	72-123	1.51	23		
1,1,1,2-Tetrachloroethane	48.09	1.0	"	50.0000	96.2	73-127	1.83	24		
Ethylbenzene	48.75	1.0	"	50.0000	97.5	71-127	1.24	26		
Xylenes, total	148.0	2.0	"	150.000	98.6	74-127	0.700	25		
Styrene	47.09	1.0	"	50.0000	94.2	66-126	0.888	23		
Bromoform	49.72	1.0	"	50.0000	99.4	68-130	0.241	23		
1,2,3-Trichloropropane	51.04	1.0	"	50.0000	102	63-136	1.03	24		
trans-1,4-Dichloro-2-butene	89.58	5.0	"	116.300	77.0	54-134	1.21	27		
1,1,2,2-Tetrachloroethane	48.89	1.0	"	49.8500	98.1	61-131	1.94	29		
1,4-Dichlorobenzene	48.29	1.0	"	50.0000	96.6	70-129	1.46	24		
1,2-Dichlorobenzene	48.71	1.0	"	50.0000	97.4	69-126	2.27	26		
1,2-Dibromo-3-chloropropane	45.55	5.0	"	50.0000	91.1	50-143	2.20	30		

Matrix Spike (1GC0575-MS1)

Source: 1GC0747-05

Prepared & Analyzed: 03/11/23

Surrogate: Dibromofluoromethane	206		ug/L	201.408	102	80-126				
Surrogate: Dibromofluoromethane	206		"	201.408	102	75-136				
Surrogate: 1,2-Dichloroethane-d4	203		"	201.632	101	63-138				
Surrogate: 1,2-Dichloroethane-d4	203		"	201.632	101	61-142				
Surrogate: Toluene-d8	208		"	200.944	104	82-121				
Surrogate: Toluene-d8	208		"	200.944	104	87-116				
Surrogate: 4-Bromofluorobenzene	208		"	201.680	103	80-116				
Surrogate: 4-Bromofluorobenzene	208		"	201.680	103	85-111				
Chloromethane	142.3	4.0	"	120.000	ND	119	61-152			
Vinyl Chloride	145.4	4.0	"	120.000	ND	121	66-149			
Bromomethane	125.6	4.0	"	120.000	ND	105	43-171			
Chloroethane	144.4	4.0	"	120.000	ND	120	69-148			
Trichlorofluoromethane	120.9	4.0	"	120.000	ND	101	62-163			
1,1-Dichloroethylene	224.8	4.0	"	200.000	ND	112	70-148			
Acetone	389.1	40.0	"	435.200	ND	89.4	45-173			
Methyl Iodide	492.9	4.0	"	398.772	ND	124	62-167			
Carbon Disulfide	434.8	4.0	"	418.400	ND	104	71-163			
Methylene Chloride	233.4	20.0	"	200.000	ND	117	69-140			
Acrylonitrile	582.2	20.0	"	402.000	ND	145	58-151			
trans-1,2-Dichloroethylene	221.3	4.0	"	200.000	ND	111	69-144			

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 51 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0575 - EPA 5030B

Matrix Spike (1GC0575-MS1)	Source: 1GC0747-05			Prepared & Analyzed: 03/11/23						
1,1-Dichloroethane	218.2	4.0	ug/L	200.000	ND	109	70-138			
Vinyl Acetate	465.1	20.0	"	461.200	ND	101	58-142			
cis-1,2-Dichloroethylene	214.5	4.0	"	200.000	ND	107	68-151			
2-Butanone (MEK)	464.2	40.0	"	422.400	ND	110	50-160			
Bromochloromethane	224.7	4.0	"	200.000	ND	112	65-143			
Chloroform	221.5	4.0	"	200.000	ND	111	71-143			
1,1,1-Trichloroethane	195.7	4.0	"	199.900	ND	97.9	63-133			
Carbon Tetrachloride	212.0	4.0	"	200.000	ND	106	63-142			
Benzene	216.0	4.0	"	200.000	ND	108	69-133			
1,2-Dichloroethane	200.2	4.0	"	200.000	ND	100	63-138			
Trichloroethylene	211.2	4.0	"	200.000	ND	106	71-133			
1,2-Dichloropropane	226.2	4.0	"	200.000	ND	113	69-132			
Dibromomethane	220.2	4.0	"	200.000	ND	110	70-147			
Bromodichloromethane	200.4	4.0	"	200.000	ND	100	67-130			
cis-1,3-Dichloropropene	203.5	4.0	"	201.300	ND	101	61-126			
4-Methyl-2-pentanone (MIBK)	495.6	20.0	"	425.600	ND	116	55-147			
Toluene	212.4	4.0	"	200.000	ND	106	71-133			
trans-1,3-Dichloropropene	200.5	4.0	"	201.700	ND	99.4	63-124			
1,1,2-Trichloroethane	218.3	4.0	"	200.000	ND	109	69-133			
Tetrachloroethylene	168.4	4.0	"	200.000	ND	84.2	70-124			
2-Hexanone (MBK)	468.6	20.0	"	420.000	ND	112	53-141			
Dibromochloromethane	204.0	4.0	"	198.000	ND	103	74-122			
1,2-Dibromoethane	206.6	4.0	"	200.000	ND	103	66-127			
Chlorobenzene	200.6	4.0	"	200.000	ND	100	76-116			
1,1,1,2-Tetrachloroethane	202.2	4.0	"	200.000	ND	101	77-121			
Ethylbenzene	199.0	4.0	"	200.000	ND	99.5	73-124			
Xylenes, total	602.9	8.0	"	600.000	ND	100	75-123			
Styrene	192.2	4.0	"	200.000	ND	96.1	70-120			
Bromoform	211.8	4.0	"	200.000	ND	106	70-124			
1,2,3-Trichloropropane	210.4	4.0	"	200.000	ND	105	62-135			
trans-1,4-Dichloro-2-butene	420.0	20.0	"	465.200	ND	90.3	50-120			
1,1,2,2-Tetrachloroethane	207.2	4.0	"	199.400	ND	104	63-126			
1,4-Dichlorobenzene	198.7	4.0	"	200.000	ND	99.3	72-119			
1,2-Dichlorobenzene	201.5	4.0	"	200.000	ND	101	71-117			
1,2-Dibromo-3-chloropropane	196.2	20.0	"	200.000	ND	98.1	49-134			

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 52 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0575 - EPA 5030B

Matrix Spike Dup (1GC0575-MSD1)	Source: 1GC0747-05			Prepared & Analyzed: 03/11/23						
Surrogate: Dibromofluoromethane	207		ug/L	201.408	103		80-126			
Surrogate: Dibromofluoromethane	207		"	201.408	103		75-136			
Surrogate: 1,2-Dichloroethane-d4	202		"	201.632	100		61-142			
Surrogate: 1,2-Dichloroethane-d4	202		"	201.632	100		63-138			
Surrogate: Toluene-d8	207		"	200.944	103		82-121			
Surrogate: Toluene-d8	207		"	200.944	103		87-116			
Surrogate: 4-Bromofluorobenzene	209		"	201.680	104		80-116			
Surrogate: 4-Bromofluorobenzene	209		"	201.680	104		85-111			
Chloromethane	137.1	4.0	"	120.000	ND	114	61-152	3.72	26	
Vinyl Chloride	140.4	4.0	"	120.000	ND	117	66-149	3.50	23	
Bromomethane	118.3	4.0	"	120.000	ND	98.6	43-171	6.00	29	
Chloroethane	140.5	4.0	"	120.000	ND	117	69-148	2.70	25	
Trichlorofluoromethane	115.4	4.0	"	120.000	ND	96.1	62-163	4.67	25	
1,1-Dichloroethylene	221.2	4.0	"	200.000	ND	111	70-148	1.61	22	
Acetone	331.7	40.0	"	435.200	ND	76.2	45-173	15.9	30	
Methyl Iodide	483.7	4.0	"	398.772	ND	121	62-167	1.89	24	
Carbon Disulfide	418.7	4.0	"	418.400	ND	100	71-163	3.77	22	
Methylene Chloride	224.5	20.0	"	200.000	ND	112	69-140	3.91	19	
Acrylonitrile	557.9	20.0	"	402.000	ND	139	58-151	4.26	15	
trans-1,2-Dichloroethylene	212.0	4.0	"	200.000	ND	106	69-144	4.30	22	
1,1-Dichloroethane	211.0	4.0	"	200.000	ND	105	70-138	3.36	20	
Vinyl Acetate	426.2	20.0	"	461.200	ND	92.4	58-142	8.72	24	
cis-1,2-Dichloroethylene	209.5	4.0	"	200.000	ND	105	68-151	2.36	22	
2-Butanone (MEK)	430.3	40.0	"	422.400	ND	102	50-160	7.58	23	
Bromochloromethane	218.3	4.0	"	200.000	ND	109	65-143	2.87	22	
Chloroform	214.4	4.0	"	200.000	ND	107	71-143	3.27	21	
1,1,1-Trichloroethane	186.8	4.0	"	199.900	ND	93.4	63-133	4.64	23	
Carbon Tetrachloride	203.7	4.0	"	200.000	ND	102	63-142	3.96	22	
Benzene	207.8	4.0	"	200.000	ND	104	69-133	3.87	18	
1,2-Dichloroethane	191.2	4.0	"	200.000	ND	95.6	63-138	4.62	20	
Trichloroethylene	203.5	4.0	"	200.000	ND	102	71-133	3.72	23	
1,2-Dichloropropane	214.9	4.0	"	200.000	ND	107	69-132	5.13	20	
Dibromomethane	213.0	4.0	"	200.000	ND	106	70-147	3.34	22	
Bromodichloromethane	193.3	4.0	"	200.000	ND	96.7	67-130	3.58	21	
cis-1,3-Dichloropropene	195.6	4.0	"	201.300	ND	97.2	61-126	3.95	21	
4-Methyl-2-pentanone (MIBK)	468.2	20.0	"	425.600	ND	110	55-147	5.68	23	
Toluene	204.2	4.0	"	200.000	ND	102	71-133	3.92	19	
trans-1,3-Dichloropropene	191.7	4.0	"	201.700	ND	95.0	63-124	4.49	21	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 53 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0575 - EPA 5030B

Matrix Spike Dup (1GC0575-MSD1)	Source: 1GC0747-05			Prepared & Analyzed: 03/11/23						
1,1,2-Trichloroethane	207.5	4.0	ug/L	200.000	ND	104	69-133	5.05	19	
Tetrachloroethylene	164.4	4.0	"	200.000	ND	82.2	70-124	2.40	24	
2-Hexanone (MBK)	443.8	20.0	"	420.000	ND	106	53-141	5.43	24	
Dibromochloromethane	193.4	4.0	"	198.000	ND	97.7	74-122	5.33	21	
1,2-Dibromoethane	197.6	4.0	"	200.000	ND	98.8	66-127	4.43	23	
Chlorobenzene	193.5	4.0	"	200.000	ND	96.7	76-116	3.59	21	
1,1,1,2-Tetrachloroethane	194.2	4.0	"	200.000	ND	97.1	77-121	4.04	25	
Ethylbenzene	194.3	4.0	"	200.000	ND	97.2	73-124	2.40	20	
Xylenes, total	584.6	8.0	"	600.000	ND	97.4	75-123	3.08	20	
Styrene	184.8	4.0	"	200.000	ND	92.4	70-120	3.97	23	
Bromoform	202.7	4.0	"	200.000	ND	101	70-124	4.40	22	
1,2,3-Trichloropropane	205.9	4.0	"	200.000	ND	103	62-135	2.17	28	
trans-1,4-Dichloro-2-butene	406.4	20.0	"	465.200	ND	87.4	50-120	3.29	26	
1,1,2,2-Tetrachloroethane	196.2	4.0	"	199.400	ND	98.4	63-126	5.49	24	
1,4-Dichlorobenzene	189.8	4.0	"	200.000	ND	94.9	72-119	4.57	24	
1,2-Dichlorobenzene	191.8	4.0	"	200.000	ND	95.9	71-117	4.94	24	
1,2-Dibromo-3-chloropropane	185.8	20.0	"	200.000	ND	92.9	49-134	5.44	28	

Batch 1GC0613 - EPA 5030B

Blank (1GC0613-BLK1)	Prepared & Analyzed: 03/13/23									
Surrogate: Dibromofluoromethane	48.9		ug/L	50.3520		97.1	80-126			
Surrogate: 1,2-Dichloroethane-d4	52.9		"	50.4080		105	63-138			
Surrogate: Toluene-d8	53.9		"	50.2360		107	87-116			
Surrogate: 4-Bromofluorobenzene	47.7		"	50.4200		94.7	85-111			
Vinyl Chloride	ND	1.0	"							

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 54 of 62

Work Order: 1GC0745

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0613 - EPA 5030B

Blank (1GC0613-BLK2)		Prepared & Analyzed: 03/13/23								
Surrogate: Dibromofluoromethane	49.7		ug/L	50.3520		98.8	80-126			
Surrogate: 1,2-Dichloroethane-d4	53.9		"	50.4080		107	63-138			
Surrogate: Toluene-d8	52.4		"	50.2360		104	87-116			
Surrogate: 4-Bromofluorobenzene	48.9		"	50.4200		97.0	85-111			
Vinyl Chloride	ND	1.0	"							

LCS (1GC0613-BS1)		Prepared & Analyzed: 03/13/23								
Surrogate: Dibromofluoromethane	48.1		ug/L	50.3520		95.4	80-126			
Surrogate: 1,2-Dichloroethane-d4	51.9		"	50.4080		103	63-138			
Surrogate: Toluene-d8	50.5		"	50.2360		101	87-116			
Surrogate: 4-Bromofluorobenzene	46.7		"	50.4200		92.6	85-111			
Vinyl Chloride	39.84	1.0	"	30.0000		133	62-151			

LCS Dup (1GC0613-BSD1)		Prepared & Analyzed: 03/13/23								
Surrogate: Dibromofluoromethane	47.3		ug/L	50.3520		93.9	80-126			
Surrogate: 1,2-Dichloroethane-d4	53.2		"	50.4080		106	63-138			
Surrogate: Toluene-d8	52.4		"	50.2360		104	87-116			
Surrogate: 4-Bromofluorobenzene	46.9		"	50.4200		93.0	85-111			
Vinyl Chloride	42.20	1.0	"	30.0000		141	62-151	5.75	28	

Matrix Spike (1GC0613-MS1)		Source: 1GC0745-14		Prepared & Analyzed: 03/13/23						
Surrogate: Dibromofluoromethane	499		ug/L	503.520		99.0	80-126			
Surrogate: 1,2-Dichloroethane-d4	528		"	504.080		105	63-138			
Surrogate: Toluene-d8	538		"	502.360		107	87-116			
Surrogate: 4-Bromofluorobenzene	496		"	504.200		98.3	85-111			
Vinyl Chloride	481.4	10.0	"	300.000	ND	160	61-152			QS-02

Matrix Spike Dup (1GC0613-MSD1)		Source: 1GC0745-14		Prepared & Analyzed: 03/13/23						
Surrogate: Dibromofluoromethane	494		ug/L	503.520		98.1	80-126			
Surrogate: 1,2-Dichloroethane-d4	510		"	504.080		101	63-138			
Surrogate: Toluene-d8	525		"	502.360		104	87-116			
Surrogate: 4-Bromofluorobenzene	447		"	504.200		88.6	85-111			
Vinyl Chloride	476.2	10.0	"	300.000	ND	159	61-152	1.09	24	QS-02

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 55 of 62

Work Order: 1GC0745

Determination of Total Metals - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0738 - EPA 3005A Total Recoverable Metals

Blank (1GC0738-BLK1)

Prepared & Analyzed: 03/15/23

Antimony, total	ND	0.0020	mg/L							
Arsenic, total	ND	0.0040	"							
Barium, total	ND	0.0040	"							
Beryllium, total	ND	0.0040	"							
Cadmium, total	ND	0.0008	"							
Chromium, total	ND	0.0080	"							
Cobalt, total	ND	0.0004	"							
Copper, total	ND	0.0040	"							
Lead, total	ND	0.0040	"							
Nickel, total	ND	0.0040	"							
Selenium, total	ND	0.0040	"							
Silver, total	ND	0.0040	"							
Thallium, total	ND	0.0020	"							
Vanadium, total	ND	0.0200	"							
Zinc, total	ND	0.0200	"							

LCS (1GC0738-BS1)

Prepared & Analyzed: 03/15/23

Antimony, total	0.0933	0.0020	mg/L	0.100000		93.3	80-120			
Arsenic, total	0.0957	0.0040	"	0.100000		95.7	80-120			
Barium, total	0.101	0.0040	"	0.100000		101	80-120			
Beryllium, total	0.0971	0.0040	"	0.100000		97.1	80-120			
Cadmium, total	0.0945	0.0008	"	0.100000		94.5	80-120			
Chromium, total	0.0943	0.0080	"	0.100000		94.3	80-120			
Cobalt, total	0.104	0.0004	"	0.100000		104	80-120			
Copper, total	0.0983	0.0040	"	0.100000		98.3	80-120			
Lead, total	0.0982	0.0040	"	0.100000		98.2	80-120			
Nickel, total	0.101	0.0040	"	0.100000		101	80-120			
Selenium, total	0.0958	0.0040	"	0.100000		95.8	80-120			
Silver, total	0.102	0.0040	"	0.100000		102	80-120			
Thallium, total	0.0837	0.0020	"	0.100000		83.7	80-120			
Vanadium, total	0.102	0.0200	"	0.100000		102	80-120			
Zinc, total	0.0980	0.0200	"	0.100000		98.0	80-120			

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 56 of 62

Work Order: 1GC0745

Determination of Total Metals - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0738 - EPA 3005A Total Recoverable Metals

Matrix Spike (1GC0738-MS1)	Source: 1GC0745-01			Prepared & Analyzed: 03/15/23						
Antimony, total	0.0924	0.0020	mg/L	0.100000	ND	92.4	75-125			
Arsenic, total	0.100	0.0040	"	0.100000	0.0033	96.7	75-125			
Barium, total	0.352	0.0040	"	0.100000	0.269	82.4	75-125			
Beryllium, total	0.0966	0.0040	"	0.100000	ND	96.6	75-125			
Cadmium, total	0.0905	0.0008	"	0.100000	0.0002	90.3	75-125			
Chromium, total	0.0900	0.0080	"	0.100000	0.0006	89.4	75-125			
Cobalt, total	0.106	0.0004	"	0.100000	0.0048	101	75-125			
Copper, total	0.0928	0.0040	"	0.100000	0.0016	91.2	75-125			
Lead, total	0.0922	0.0040	"	0.100000	ND	92.2	75-125			
Nickel, total	0.107	0.0040	"	0.100000	0.0100	96.8	75-125			
Selenium, total	0.1026	0.0040	"	0.100000	ND	103	75-125			
Silver, total	0.0980	0.0040	"	0.100000	ND	98.0	75-125			
Thallium, total	0.0829	0.0020	"	0.100000	0.0020	81.0	75-125			
Vanadium, total	0.0917	0.0200	"	0.100000	ND	91.7	75-125			
Zinc, total	0.0960	0.0200	"	0.100000	ND	96.0	75-125			

Matrix Spike Dup (1GC0738-MSD1)	Source: 1GC0745-01			Prepared & Analyzed: 03/15/23						
Antimony, total	0.0980	0.0020	mg/L	0.100000	ND	98.0	75-125	5.92	20	
Arsenic, total	0.106	0.0040	"	0.100000	0.0033	103	75-125	5.76	20	
Barium, total	0.371	0.0040	"	0.100000	0.269	102	75-125	5.29	20	
Beryllium, total	0.102	0.0040	"	0.100000	ND	102	75-125	5.53	20	
Cadmium, total	0.0962	0.0008	"	0.100000	0.0002	96.0	75-125	6.13	20	
Chromium, total	0.0966	0.0080	"	0.100000	0.0006	96.0	75-125	7.10	20	
Cobalt, total	0.115	0.0004	"	0.100000	0.0048	111	75-125	8.88	20	
Copper, total	0.0984	0.0040	"	0.100000	0.0016	96.8	75-125	5.80	20	
Lead, total	0.0974	0.0040	"	0.100000	ND	97.4	75-125	5.55	20	
Nickel, total	0.114	0.0040	"	0.100000	0.0100	104	75-125	6.26	20	
Selenium, total	0.1061	0.0040	"	0.100000	ND	106	75-125	3.32	20	
Silver, total	0.102	0.0040	"	0.100000	ND	102	75-125	4.37	20	
Thallium, total	0.0893	0.0020	"	0.100000	0.0020	87.4	75-125	7.44	20	
Vanadium, total	0.0979	0.0200	"	0.100000	ND	97.9	75-125	6.52	20	
Zinc, total	0.101	0.0200	"	0.100000	ND	101	75-125	5.51	20	

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 57 of 62

Work Order: 1GC0745

Determination of Total Metals - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GC0738 - EPA 3005A Total Recoverable Metals

Post Spike (1GC0738-PS1)	Source: 1GC0745-01		Prepared & Analyzed: 03/15/23							
Antimony, total	0.0837		mg/L	0.0800000	0.0003	104	80-120			
Arsenic, total	0.0873		"	0.0800000	0.0032	105	80-120			
Barium, total	0.348		"	0.0800000	0.264	105	80-120			
Beryllium, total	0.0894		"	0.0800000	0.00003	112	80-120			
Cadmium, total	0.0815		"	0.0800000	0.0002	102	80-120			
Chromium, total	0.0766		"	0.0800000	0.0006	95.0	80-120			
Cobalt, total	0.0856		"	0.0800000	0.0047	101	80-120			
Copper, total	0.0751		"	0.0800000	0.0015	92.0	80-120			
Lead, total	0.0711		"	0.0800000	0.0001	88.7	80-120			
Nickel, total	0.0851		"	0.0800000	0.0098	94.2	80-120			
Selenium, total	0.0880		"	0.0800000	-0.0004	110	80-120			
Silver, total	0.0783		"	0.0800000	0.0012	96.3	80-120			
Thallium, total	0.0718		"	0.0800000	0.0019	87.4	80-120			
Vanadium, total	0.0794		"	0.0800000	0.0054	92.5	80-120			
Zinc, total	0.0870		"	0.0800000	0.0022	106	80-120			

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

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HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 58 of 62

Work Order: 1GC0745

Certified Analyses Included In This Report

Method/Matrix	Analyte	Certifications
EPA 6020A in Water		
	Antimony, total	SIA1X,KS-NT
	Arsenic, total	SIA1X,KS-NT
	Barium, total	SIA1X,KS-NT
	Beryllium, total	SIA1X,KS-NT
	Cadmium, total	SIA1X,KS-NT
	Chromium, total	SIA1X,KS-NT
	Cobalt, total	SIA1X,KS-NT
	Copper, total	SIA1X,KS-NT
	Lead, total	SIA1X,KS-NT
	Nickel, total	SIA1X,KS-NT
	Selenium, total	SIA1X,KS-NT
	Silver, total	SIA1X,KS-NT
	Thallium, total	SIA1X,KS-NT
	Vanadium, total	SIA1X,KS-NT
	Zinc, total	SIA1X,KS-NT
EPA 8260B in Water		
	Chloromethane	KS-NT,SIA1X
	Vinyl Chloride	KS-NT,SIA1X
	Vinyl Chloride	KS-NT,SIA1X
	Bromomethane	KS-NT,SIA1X
	Chloroethane	KS-NT,SIA1X
	Trichlorofluoromethane	KS-NT,SIA1X
	1,1-Dichloroethylene	KS-NT,SIA1X
	Acetone	KS-NT,SIA1X
	Methyl Iodide	SIA1X
	Carbon Disulfide	KS-NT,SIA1X
	Methylene Chloride	KS-NT,SIA1X
	Acrylonitrile	KS-NT,SIA1X
	trans-1,2-Dichloroethylene	KS-NT,SIA1X
	1,1-Dichloroethane	KS-NT,SIA1X
	Vinyl Acetate	KS-NT,SIA1X
	cis-1,2-Dichloroethylene	KS-NT,SIA1X
	2-Butanone (MEK)	KS-NT,SIA1X
	Bromochloromethane	KS-NT,SIA1X
	Chloroform	KS-NT,SIA1X
	1,1,1-Trichloroethane	KS-NT,SIA1X
	Carbon Tetrachloride	KS-NT,SIA1X
	Benzene	KS-NT,SIA1X
	1,2-Dichloroethane	KS-NT,SIA1X
	Trichloroethylene	KS-NT,SIA1X
	1,2-Dichloropropane	KS-NT,SIA1X
	Dibromomethane	SIA1X
	Bromodichloromethane	KS-NT,SIA1X
	cis-1,3-Dichloropropene	KS-NT,SIA1X
	4-Methyl-2-pentanone (MIBK)	KS-NT,SIA1X
	Toluene	KS-NT,SIA1X

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL = Method Reporting Limit.

HLW Engineering
PO Box 314
Story City, IA 50248

March 19, 2023
Page 59 of 62

Work Order: 1GC0745

trans-1,3-Dichloropropene	KS-NT,SIA1X
1,1,2-Trichloroethane	KS-NT,SIA1X
Tetrachloroethylene	KS-NT,SIA1X
2-Hexanone (MBK)	KS-NT,SIA1X
Dibromochloromethane	KS-NT,SIA1X
1,2-Dibromoethane	KS-NT,SIA1X
Chlorobenzene	KS-NT,SIA1X
1,1,1,2-Tetrachloroethane	KS-NT,SIA1X
Ethylbenzene	KS-NT,SIA1X
Xylenes, total	KS-NT,SIA1X
Styrene	KS-NT,SIA1X
Bromoform	KS-NT,SIA1X
1,2,3-Trichloropropane	KS-NT,SIA1X
trans-1,4-Dichloro-2-butene	SIA1X
1,1,2,2-Tetrachloroethane	KS-NT,SIA1X
1,4-Dichlorobenzene	KS-NT,SIA1X
1,2-Dichlorobenzene	KS-NT,SIA1X
1,2-Dibromo-3-chloropropane	KS-NT,SIA1X

Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2023
KS-NT	Kansas Department of Health and Environment (NELAP)	E-10287	10/31/2023
MO-KC	Missouri Department of Natural Resources	140	04/30/2023
SIA1X	Iowa Dept. of Natural Resources	95	02/01/2024

Notes and Definitions

- QB-02 The method blank contains analyte at a concentration above the MRL; however, sample concentration was less than the MRL or less than the applicable action level.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QS-01 The blank spike recovery and/or blank spike duplicate recovery were outside the established acceptance limits. Batch was accepted based on acceptable MS/MSD/RPD results.
- QS-02 The spike recovery for this QC sample exceeded established acceptance limits. However, all samples were below the reporting and/or regulatory limit so the data is acceptable.

End of Report

Keystone Laboratories

Sue Thompson
Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.



1 G C 0 7 4 5

HLW Engineering
PM: Sue Thompson

SITE INFORMATION

Sampler: JGH
Project: South Dallas Co. - New Regs

Appendix Sampling

SPECIAL INSTRUCTIONS

None

Turn Around Time

Standard RUSH, need by / /

REPORT TO

Todd Whipple
HLW Engineering
PO Box 314
Story City, IA 50248

INVOICE TO

Mike Fountas
South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

LAB USE ONLY

Work Order IGC0745

Temperature 2.9

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
01-001	MW-2 <u>NO SAMPLE</u>	Water	GRAB	<u> / / </u>	<u> : </u>	<u> </u>	indfil-app1-metals-6020 indfil-app1-voc	<u> </u>
02-001	MW-9	Water	GRAB	<u>3/7/23</u>	<u>9:05</u>	<u>7</u>	indfil-app1-metals-6020 indfil-app1-voc	<u>01</u>
03-001	MW-17	Water	GRAB	<u>3/7/23</u>	<u>10:30</u>	<u>7</u>	indfil-app1-metals-6020 indfil-app1-voc	<u>02</u>
04-001	MW-18	Water	GRAB	<u>3/7/23</u>	<u>9:42</u>	<u>7</u>	indfil-app1-metals-6020 indfil-app1-voc	<u>03</u>
05-001	MW-19A	Water	GRAB	<u>3/7/23</u>	<u>10:03</u>	<u>7</u>	indfil-app1-metals-6020 indfil-app1-voc	<u>04</u>
06-001	MW-24	Water	GRAB	<u>3/7/23</u>	<u>9:20</u>	<u>7</u>	indfil-app1-metals-6020 indfil-app1-voc	<u>05</u>
07-001	MW-4	Water	GRAB	<u>3/7/23</u>	<u>11:13</u>	<u>7</u>	indfil-app1-metals-6020 indfil-app1-voc	<u>06</u>

Relinquished By [Signature] Date/Time 3/8/23 10AM

Relinquished By _____ Date/Time _____

Received By _____ Date/Time _____

Received for Lab By _____ Date/Time _____

Original - Lab Copy Yellow - Sampler Copy

Remarks:



1 G C 0 7 4 5

HLW Engineering
PM: Sue Thompson

SITE INFORMATION

Sampler: Ja, H
Project: South Dallas Co. - New Regs

Appendix Sampling

SPECIAL INSTRUCTIONS

None

Turn Around Time

Standard RUSH, need by / /

REPORT TO

Todd Whipple
HLW Engineering
PO Box 314
Story City, IA 50248

INVOICE TO

Mike Fountas
South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

LAB USE ONLY

Work Order 16C0745
Temperature 2.9
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
08-001	MW-5	Water	GRAB	<u>3/7/23</u>	<u>11:53</u>	<u>7</u>	indfil-app1-metals-6020 indfil-app1-voc	<u>07</u>
09-001	MW-10 <u>NO SAMPLE</u>	Water	GRAB	<u> / / </u>	<u> : </u>	<u> </u>	indfil-app1-metals-6020 indfil-app1-voc	<u> </u>
10-001	MW-12	Water	GRAB	<u>3/7/23</u>	<u>12:36</u>	<u>7</u>	indfil-app1-metals-6020 indfil-app1-voc	<u>08</u>
11-001	MW-15R	Water	GRAB	<u>3/7/23</u>	<u>13:00</u>	<u>7</u>	indfil-app1-metals-6020 indfil-app1-voc	<u>09</u>
12-001	MW-20R	Water	GRAB	<u>3/7/23</u>	<u>12:47</u>	<u>7</u>	indfil-app1-metals-6020 indfil-app1-voc	<u>10</u>
13-001	MW-21	Water	GRAB	<u>3/7/23</u>	<u>12:18</u>	<u>7</u>	indfil-app1-metals-6020 indfil-app1-voc	<u>11</u>
14-001	MW-22	Water	GRAB	<u>3/7/23</u>	<u>10:59</u>	<u>7</u>	indfil-app1-metals-6020 indfil-app1-voc	<u>12</u>

Relinquished By [Signature] Date/Time 3/8/23 10 AM
Received By _____ Date/Time _____

Relinquished By _____ Date/Time _____
Received for Lab By _____ Date/Time _____
Original - Lab Copy Yellow - Sampler Copy

Remarks: _____



SITE INFORMATION

Sampler: 1GH
Project: South Dallas Co. - New Regs
Appendix Sampling

REPORT TO

Todd Whipple
HLW Engineering
PO Box 314
Story City, IA 50248

INVOICE TO

Mike Fountas
South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

SPECIAL INSTRUCTIONS

None
Turn Around Time
 Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order 1GCO745
Temperature 2.9
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
15-001	MW-25	Water	GRAB	<u>3/7/23</u>	<u>11:38</u>	<u>4</u>	8260@vc as-I-6020	8260-base-analysis ba-I-6020	<u>13</u>
16-001	MW-26	Water	GRAB	<u>3/7/23</u>	<u>11:26</u>	<u>4</u>	8260@vc as-I-6020	8260-base-analysis ba-I-6020	<u>14</u>
17-001	GWD-1	Water	GRAB	<u>3/7/23</u>	<u>10:42</u>	<u>7</u>	indfil-app1-metals-6020	indfil-app1-voc	<u>15</u>
18-001	Duplicate	Water	GRAB	<u>3/7/23</u>	<u>12:18</u>	<u>7</u>	indfil-app1-metals-6020	indfil-app1-voc	<u>16</u>

Relinquished By [Signature] Date/Time 3/8/23 10AM
Received By _____ Date/Time _____

Relinquished By _____ Date/Time _____

Received for Lab By _____ Date/Time _____
Original - Lab Copy Yellow - Sampler Copy

Remarks:

ANALYTICAL REPORT

May 23, 2023

Work Order: 1GE1365

Page 1 of 4

Report To
Todd Whipple HLW Engineering PO Box 314 Story City, IA 50248

Work Order Information
Date Received: 5/10/2023 10:10:00AM Collector: Whipple, Todd Phone: (515) 733-4144 PO Number:

Project: South Dallas Co. - New Regs

Project Number: Appendix Sampling

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GE1365-01	GWD-1			Matrix: Water		Collected: 05/09/23 11:11	
Vinyl Chloride	1.5 ug/L	1.0	1GE1007	EPA 8260B	MSV	05/16/23 13:31	
<i>Surrogate: Dibromofluoromethane</i>	<i>99.5 %</i>			<i>80-126</i>	MSV	05/16/23 13:31	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>88.6 %</i>			<i>63-138</i>	MSV	05/16/23 13:31	
<i>Surrogate: Toluene-d8</i>	<i>95.0 %</i>			<i>87-116</i>	MSV	05/16/23 13:31	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>103 %</i>			<i>85-111</i>	MSV	05/16/23 13:31	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

HLW Engineering
PO Box 314
Story City, IA 50248

May 23, 2023
Page 2 of 4

Work Order: 1GE1365

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GE1007 - EPA 5030B										
Blank (1GE1007-BLK1)				Prepared & Analyzed: 05/16/23						
Surrogate: Dibromofluoromethane	48.8		ug/L	50.3520		96.8	80-126			
Surrogate: 1,2-Dichloroethane-d4	45.4		"	50.4080		90.1	63-138			
Surrogate: Toluene-d8	47.8		"	50.2360		95.2	87-116			
Surrogate: 4-Bromofluorobenzene	51.9		"	50.4200		103	85-111			
Vinyl Chloride	ND	1.0	"							
LCS (1GE1007-BS1)				Prepared & Analyzed: 05/16/23						
Surrogate: Dibromofluoromethane	48.4		ug/L	50.3520		96.2	80-126			
Surrogate: 1,2-Dichloroethane-d4	44.6		"	50.4080		88.5	63-138			
Surrogate: Toluene-d8	49.6		"	50.2360		98.8	87-116			
Surrogate: 4-Bromofluorobenzene	50.1		"	50.4200		99.3	85-111			
Vinyl Chloride	21.91	1.0	"	30.0000		73.0	62-151			
LCS Dup (1GE1007-BSD1)				Prepared & Analyzed: 05/16/23						
Surrogate: Dibromofluoromethane	47.4		ug/L	50.3520		94.1	80-126			
Surrogate: 1,2-Dichloroethane-d4	43.9		"	50.4080		87.1	63-138			
Surrogate: Toluene-d8	49.7		"	50.2360		99.0	87-116			
Surrogate: 4-Bromofluorobenzene	50.2		"	50.4200		99.6	85-111			
Vinyl Chloride	20.22	1.0	"	30.0000		67.4	62-151	8.02	28	
Matrix Spike (1GE1007-MS1)				Source: 1GE1389-01		Prepared & Analyzed: 05/16/23				
Surrogate: Dibromofluoromethane	178		ug/L	201.408		88.6	80-126			
Surrogate: 1,2-Dichloroethane-d4	168		"	201.632		83.3	63-138			
Surrogate: Toluene-d8	199		"	200.944		98.9	87-116			
Surrogate: 4-Bromofluorobenzene	200		"	201.680		99.0	85-111			
Vinyl Chloride	82.44	4.0	"	120.000	ND	68.7	61-152			
Matrix Spike Dup (1GE1007-MSD1)				Source: 1GE1389-01		Prepared & Analyzed: 05/16/23				
Surrogate: Dibromofluoromethane	179		ug/L	201.408		88.7	80-126			
Surrogate: 1,2-Dichloroethane-d4	168		"	201.632		83.2	63-138			
Surrogate: Toluene-d8	198		"	200.944		98.6	87-116			
Surrogate: 4-Bromofluorobenzene	199		"	201.680		98.5	85-111			
Vinyl Chloride	77.60	4.0	"	120.000	ND	64.7	61-152	6.05	24	

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

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HLW Engineering
PO Box 314
Story City, IA 50248

May 23, 2023
Page 3 of 4

Work Order: 1GE1365

Certified Analyses Included In This Report

Method/Matrix	Analyte	Certifications	
<i>EPA 8260B in Water</i>	Vinyl Chloride	KS-NT,SIA1X	
Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2024
KS-NT	Kansas Department of Health and Environment (NELAP)	E-10287	10/31/2023
MO-KC	Missouri Department of Natural Resources (KC)	140	04/30/2023
MO-NT	Missouri Department of Natural Resources (Newton)	10170	04/30/2026
SIA1X	Iowa Dept. of Natural Resources	95	02/01/2024

End of Report



Keystone Laboratories

Sue Thompson
Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

CHAIN OF CUSTODY

Keystone
LABORATORIES, INC.

600 E. 17th St. S.
Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989

3012 Ansboro
Waterloo, IA 5
Phone: 319-23
Fax: 319-23



1 G E 1 3 6 5
HLW Engineering
PM: Sue Thompson

VanBuren St
rville, IA 52544
☎: 641-437-7023
641-437-7040

PAGE 1 OF 1

PRINT OR TYPE INFORMATION BELOW

SAMPLER: TODD WHIPPLE
SITE NAME: SOUTH DALLAS Co Landfill
ADDRESS: _____
CITY/ST/ZIP: Adel
PHONE: _____

REPORT TO:
NAME: TODD WHIPPLE
COMPANY NAME: HLW Engineering Group
ADDRESS: P.O. Box 314
CITY/ST/ZIP: STORY City Ia 50248
PHONE: 515 733-4144
FAX: -4146

BILL TO:
NAME: Mike Fountas, Director
COMPANY NAME: SOUTH DALLAS Co. SAN. Landf.
ADDRESS: P.O. Box 263
CITY/ST/ZIP: Adel Iowa 50003
PHONE: _____
Keystone Quote No: _____
(If Applicable)

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED										LAB USE ONLY				
																	LABORATORY WORK ORDER NO.	LABORATORY SAMPLE NUMBER			
GWD-1	5/9/23	11:11	GWD-1	3	W	G	X													On Top IGE1365	01

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>5/10/23</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>5/10/23</u>	Turn-Around: <input type="checkbox"/> Standard <input type="checkbox"/> Rush
Relinquished by: (Signature)	Date	Received for Lab by: (Signature)	Date	Remarks:
	Time		Time	

ANALYTICAL REPORT

June 23, 2023

Work Order: 1GF0724

Page 1 of 4

Report To
Todd Whipple HLW Engineering PO Box 314 Story City, IA 50248

Work Order Information
Date Received: 6/8/2023 9:22:00AM Collector: Whipple, Todd Phone: (515) 733-4144 PO Number:

Project: South Dallas Co. - New Regs

Project Number: Appendix Sampling

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GF0724-01	GWD-1			Matrix: Water		Collected: 06/07/23 09:45	
Vinyl Chloride	1.2 ug/L	1.0	1GF0698	EPA 8260B	LNH	06/13/23 18:36	
<i>Surrogate: Dibromofluoromethane</i>	<i>108 %</i>			<i>80-126</i>	LNH	06/13/23 18:36	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>114 %</i>			<i>63-138</i>	LNH	06/13/23 18:36	
<i>Surrogate: Toluene-d8</i>	<i>99.3 %</i>			<i>87-116</i>	LNH	06/13/23 18:36	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>93.9 %</i>			<i>85-111</i>	LNH	06/13/23 18:36	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

HLW Engineering
PO Box 314
Story City, IA 50248

June 23, 2023
Page 2 of 4

Work Order: 1GF0724

Determination of Volatile Organic Compounds - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GF0698 - EPA 5030B										
Blank (1GF0698-BLK1)				Prepared & Analyzed: 06/13/23						
Surrogate: Dibromofluoromethane	53.8		ug/L	50.3520		107	80-126			
Surrogate: 1,2-Dichloroethane-d4	55.9		"	50.4080		111	63-138			
Surrogate: Toluene-d8	50.7		"	50.2360		101	87-116			
Surrogate: 4-Bromofluorobenzene	48.1		"	50.4200		95.5	85-111			
Vinyl Chloride	ND	1.0	"							
LCS (1GF0698-BS1)				Prepared & Analyzed: 06/13/23						
Surrogate: Dibromofluoromethane	49.6		ug/L	50.3520		98.5	80-126			
Surrogate: 1,2-Dichloroethane-d4	48.1		"	50.4080		95.3	63-138			
Surrogate: Toluene-d8	49.5		"	50.2360		98.5	87-116			
Surrogate: 4-Bromofluorobenzene	48.0		"	50.4200		95.2	85-111			
Vinyl Chloride	27.39	1.0	"	30.0000		91.3	62-151			
LCS Dup (1GF0698-BSD1)				Prepared & Analyzed: 06/13/23						
Surrogate: Dibromofluoromethane	49.2		ug/L	50.3520		97.7	80-126			
Surrogate: 1,2-Dichloroethane-d4	48.1		"	50.4080		95.3	63-138			
Surrogate: Toluene-d8	48.1		"	50.2360		95.8	87-116			
Surrogate: 4-Bromofluorobenzene	48.3		"	50.4200		95.9	85-111			
Vinyl Chloride	28.05	1.0	"	30.0000		93.5	62-151	2.38	28	

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

Certified Analyses Included In This Report

Method/Matrix	Analyte	Certifications	
EPA 8260B in Water	Vinyl Chloride	KS-NT,SIA1X	
Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2024
KS-NT	Kansas Department of Health and Environment (NELAP)	E-10287	10/31/2023
MO-KC	Missouri Department of Natural Resources (KC)	140	04/30/2024
MO-NT	Missouri Department of Natural Resources (Newton)	10170	04/30/2026
SIA1X	Iowa Dept. of Natural Resources	95	02/01/2024

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

HLW Engineering
PO Box 314
Story City, IA 50248

June 23, 2023
Page 3 of 4

Work Order: 1GF0724

End of Report

Sue Thompson

Keystone Laboratories

Sue Thompson
Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.



600 E. 17th St. S.
Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989

3012 Anst
Waterloo,
Phone: 31
Fax: 31



1 G F 0 7 2 4

HLW Engineering
PM: Sue Thompson

05 E VanBuren St
enterville, IA 52544
Phone: 641-437-7023
Fax: 641-437-7040

PAGE 1 OF 1

PRINT OR TYPE INFORMATION BELOW

SAMPLER: <u>TODD WHIPPLE</u> SITE NAME: <u>SDCLF</u> ADDRESS: _____ CITY/ST/ZIP: <u>Adel IA</u> PHONE: _____	REPORT TO: NAME: <u>TODD WHIPPLE</u> COMPANY NAME: <u>HLW Engineering Group</u> ADDRESS: <u>P.O. Box 314</u> CITY/ST/ZIP: <u>Story City, IA 50248</u> PHONE: <u>515 733 4144</u> FAX: <u>4146</u>	BILL TO: NAME: <u>Mike Fontas, Director</u> COMPANY NAME: <u>SOUTH DAWAS Co. SLF</u> ADDRESS: <u>P.O. Box 263</u> CITY/ST/ZIP: <u>Adel, IA 50003</u> PHONE: _____ Keystone Quote No: _____ (If Applicable)
--	---	---

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED										LAB USE ONLY		
							Vinyl Chloride												LABORATORY WORK ORDER NO.
GWD-1	6-7-23	9:45	GWD-1	3	W	G	X											16F0724	01

Relinquished by: (Signature)	Date	Received by: (Signature)	Date	Turn-Around:
	Time		Time	<input type="checkbox"/> Standard <input type="checkbox"/> Rush
				Contact Lab Prior to Submission
Relinquished by: (Signature)	Date	Received for Lab by: (Signature)	Date	Remarks:
	Time		Time	



Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GI1018

Project Description

South Dallas Co. - New Regs

For:

Todd Whipple

HLW Engineering

PO Box 314

Story City, IA 50248

A handwritten signature in black ink that reads "Heather Murphy".

Heather Murphy

Customer Relationship Specialist

Friday, September 29, 2023

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Keystone Laboratories - 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



Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GI1018

HLW Engineering

Todd Whipple
PO Box 314
Story City, IA 50248

Project Name: South Dallas Co. - New Regs

Project / PO Number: / Appendix Sampling
Received: 09/13/2023
Reported: 09/29/2023

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-9	1GI1018-01	Water	GRAB		09/11/23 12:31	09/13/23 09:55
MW-17	1GI1018-02	Water	GRAB		09/11/23 10:49	09/13/23 09:55
MW-18	1GI1018-03	Water	GRAB		09/11/23 12:15	09/13/23 09:55
MW-19A	1GI1018-04	Water	GRAB		09/11/23 11:21	09/13/23 09:55
MW-24	1GI1018-05	Water	GRAB		09/11/23 11:48	09/13/23 09:55
MW-4	1GI1018-06	Water	GRAB		09/11/23 10:15	09/13/23 09:55
MW-5	1GI1018-07	Water	GRAB		09/11/23 09:32	09/13/23 09:55
MW-12	1GI1018-08	Water	GRAB		09/11/23 08:58	09/13/23 09:55
MW-15R	1GI1018-09	Water	GRAB		09/11/23 08:35	09/13/23 09:55
MW-20R	1GI1018-10	Water	GRAB		09/11/23 08:35	09/13/23 09:55
MW-21	1GI1018-11	Water	GRAB		09/11/23 09:14	09/13/23 09:55
MW-25	1GI1018-12	Water	GRAB		09/11/23 09:45	09/13/23 09:55
MW-26	1GI1018-13	Water	GRAB		09/11/23 09:59	09/13/23 09:55
Duplicate	1GI1018-14	Water	GRAB		09/11/23 00:00	09/13/23 09:55



Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Analytical Testing Parameters

Client Sample ID:	MW-9	Collected By:	Whipple, Todd
Sample Matrix:	Water	Collection Date:	09/11/2023 12:31
Lab Sample ID:	1G11018-01		

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Bromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Chloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Acetone	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Chloroform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Benzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Dibromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Toluene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Xylenes, total	<2.0	2.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Styrene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS

Keystone Laboratories - Newton
CERTIFICATE OF ANALYSIS
1G11018

Client Sample ID: MW-9	Collected By: Whipple, Todd
Sample Matrix: Water	Collection Date: 09/11/2023 12:31
Lab Sample ID: 1G11018-01	

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Bromoform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1343	LJS
Surrogate: Dibromofluoromethane	97.6	Limit: 75-136	% Rec	1		09/15/23 0000	09/15/23 1343	LJS
Surrogate: Dibromofluoromethane	97.6	Limit: 80-126	% Rec	1		09/15/23 0000	09/15/23 1343	LJS
Surrogate: 1,2-Dichloroethane-d4	95.0	Limit: 61-142	% Rec	1		09/15/23 0000	09/15/23 1343	LJS
Surrogate: 1,2-Dichloroethane-d4	95.0	Limit: 63-138	% Rec	1		09/15/23 0000	09/15/23 1343	LJS
Surrogate: Toluene-d8	98.8	Limit: 82-121	% Rec	1		09/15/23 0000	09/15/23 1343	LJS
Surrogate: Toluene-d8	98.8	Limit: 87-116	% Rec	1		09/15/23 0000	09/15/23 1343	LJS
Surrogate: 4-Bromofluorobenzene	105	Limit: 80-116	% Rec	1		09/15/23 0000	09/15/23 1343	LJS
Surrogate: 4-Bromofluorobenzene	105	Limit: 85-111	% Rec	1		09/15/23 0000	09/15/23 1343	LJS

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 1953	RVV
Arsenic, total	0.0072	0.0040	mg/L	4		09/20/23 1624	09/21/23 1953	RVV
Barium, total	0.288	0.0040	mg/L	4		09/20/23 1624	09/21/23 1953	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 1953	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		09/20/23 1624	09/21/23 1953	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		09/20/23 1624	09/21/23 1953	RVV
Cobalt, total	0.0053	0.0004	mg/L	4		09/20/23 1624	09/21/23 1953	RVV
Copper, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 1953	RVV
Lead, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 1953	RVV
Nickel, total	0.0098	0.0040	mg/L	4		09/20/23 1624	09/21/23 1953	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 1953	RVV
Silver, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 1953	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 1953	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 1953	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 1953	RVV

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Client Sample ID: MW-17
Sample Matrix: Water
Lab Sample ID: 1G11018-02

Collected By: Whipple, Todd
Collection Date: 09/11/2023 10:49

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Bromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Chloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Acetone	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Chloroform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Benzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Dibromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Toluene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Xylenes, total	<2.0	2.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Styrene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Bromoform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Client Sample ID: MW-17	Collected By: Whipple, Todd
Sample Matrix: Water	Collection Date: 09/11/2023 10:49
Lab Sample ID: 1G11018-02	

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1409	LJS
Surrogate: Dibromofluoromethane	100	Limit: 75-136	% Rec	1		09/15/23 0000	09/15/23 1409	LJS
Surrogate: Dibromofluoromethane	100	Limit: 80-126	% Rec	1		09/15/23 0000	09/15/23 1409	LJS
Surrogate: 1,2-Dichloroethane-d4	97.0	Limit: 63-138	% Rec	1		09/15/23 0000	09/15/23 1409	LJS
Surrogate: 1,2-Dichloroethane-d4	97.0	Limit: 61-142	% Rec	1		09/15/23 0000	09/15/23 1409	LJS
Surrogate: Toluene-d8	97.3	Limit: 82-121	% Rec	1		09/15/23 0000	09/15/23 1409	LJS
Surrogate: Toluene-d8	97.3	Limit: 87-116	% Rec	1		09/15/23 0000	09/15/23 1409	LJS
Surrogate: 4-Bromofluorobenzene	105	Limit: 80-116	% Rec	1		09/15/23 0000	09/15/23 1409	LJS
Surrogate: 4-Bromofluorobenzene	105	Limit: 85-111	% Rec	1		09/15/23 0000	09/15/23 1409	LJS

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2029	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2029	RVV
Barium, total	0.149	0.0040	mg/L	4		09/20/23 1624	09/21/23 2029	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2029	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		09/20/23 1624	09/21/23 2029	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		09/20/23 1624	09/21/23 2029	RVV
Cobalt, total	0.0006	0.0004	mg/L	4		09/20/23 1624	09/21/23 2029	RVV
Copper, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2029	RVV
Lead, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2029	RVV
Nickel, total	0.0059	0.0040	mg/L	4		09/20/23 1624	09/21/23 2029	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2029	RVV
Silver, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2029	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2029	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2029	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2029	RVV

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GI1018

Client Sample ID:	MW-18	Collected By:	Whipple, Todd
Sample Matrix:	Water	Collection Date:	09/11/2023 12:15
Lab Sample ID:	1GI1018-03		

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Bromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Chloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Acetone	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Chloroform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Benzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Dibromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Toluene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Xylenes, total	<2.0	2.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Styrene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Bromoform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS

Keystone Laboratories - Newton
CERTIFICATE OF ANALYSIS
1G11018

Client Sample ID: MW-18	Collected By: Whipple, Todd
Sample Matrix: Water	Collection Date: 09/11/2023 12:15
Lab Sample ID: 1G11018-03	

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1436	LJS
Surrogate: Dibromofluoromethane	99.9	Limit: 75-136	% Rec	1		09/15/23 0000	09/15/23 1436	LJS
Surrogate: Dibromofluoromethane	99.9	Limit: 80-126	% Rec	1		09/15/23 0000	09/15/23 1436	LJS
Surrogate: 1,2-Dichloroethane-d4	95.4	Limit: 63-138	% Rec	1		09/15/23 0000	09/15/23 1436	LJS
Surrogate: 1,2-Dichloroethane-d4	95.4	Limit: 61-142	% Rec	1		09/15/23 0000	09/15/23 1436	LJS
Surrogate: Toluene-d8	97.8	Limit: 82-121	% Rec	1		09/15/23 0000	09/15/23 1436	LJS
Surrogate: Toluene-d8	97.8	Limit: 87-116	% Rec	1		09/15/23 0000	09/15/23 1436	LJS
Surrogate: 4-Bromofluorobenzene	106	Limit: 85-111	% Rec	1		09/15/23 0000	09/15/23 1436	LJS
Surrogate: 4-Bromofluorobenzene	106	Limit: 80-116	% Rec	1		09/15/23 0000	09/15/23 1436	LJS

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2035	RVV
Arsenic, total	0.0187	0.0040	mg/L	4		09/20/23 1624	09/21/23 2035	RVV
Barium, total	0.709	0.0040	mg/L	4		09/20/23 1624	09/21/23 2035	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2035	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		09/20/23 1624	09/21/23 2035	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		09/20/23 1624	09/21/23 2035	RVV
Cobalt, total	0.0113	0.0004	mg/L	4		09/20/23 1624	09/21/23 2035	RVV
Copper, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2035	RVV
Lead, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2035	RVV
Nickel, total	0.0195	0.0040	mg/L	4		09/20/23 1624	09/21/23 2035	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2035	RVV
Silver, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2035	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2035	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2035	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2035	RVV

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Client Sample ID:	MW-19A	Collected By:	Whipple, Todd
Sample Matrix:	Water	Collection Date:	09/11/2023 11:21
Lab Sample ID:	1G11018-04		

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Bromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Chloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Acetone	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Chloroform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Benzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Dibromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Toluene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Xylenes, total	<2.0	2.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Styrene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Bromoform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS

Keystone Laboratories - Newton
CERTIFICATE OF ANALYSIS
1G11018

Client Sample ID: MW-19A	Collected By: Whipple, Todd
Sample Matrix: Water	Collection Date: 09/11/2023 11:21
Lab Sample ID: 1G11018-04	

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1502	LJS
Surrogate: Dibromofluoromethane	99.4	Limit: 75-136	% Rec	1		09/15/23 0000	09/15/23 1502	LJS
Surrogate: Dibromofluoromethane	99.4	Limit: 80-126	% Rec	1		09/15/23 0000	09/15/23 1502	LJS
Surrogate: 1,2-Dichloroethane-d4	96.6	Limit: 63-138	% Rec	1		09/15/23 0000	09/15/23 1502	LJS
Surrogate: 1,2-Dichloroethane-d4	96.6	Limit: 61-142	% Rec	1		09/15/23 0000	09/15/23 1502	LJS
Surrogate: Toluene-d8	99.0	Limit: 82-121	% Rec	1		09/15/23 0000	09/15/23 1502	LJS
Surrogate: Toluene-d8	99.0	Limit: 87-116	% Rec	1		09/15/23 0000	09/15/23 1502	LJS
Surrogate: 4-Bromofluorobenzene	104	Limit: 85-111	% Rec	1		09/15/23 0000	09/15/23 1502	LJS
Surrogate: 4-Bromofluorobenzene	104	Limit: 80-116	% Rec	1		09/15/23 0000	09/15/23 1502	LJS

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2041	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2041	RVV
Barium, total	0.0321	0.0040	mg/L	4		09/20/23 1624	09/21/23 2041	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2041	RVV
Cadmium, total	0.0090	0.0008	mg/L	4		09/20/23 1624	09/21/23 2041	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		09/20/23 1624	09/21/23 2041	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		09/20/23 1624	09/21/23 2041	RVV
Copper, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2041	RVV
Lead, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2041	RVV
Nickel, total	0.0096	0.0040	mg/L	4		09/20/23 1624	09/21/23 2041	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2041	RVV
Silver, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2041	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2041	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2041	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2041	RVV

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Client Sample ID: MW-24
Sample Matrix: Water
Lab Sample ID: 1G11018-05

Collected By: Whipple, Todd
Collection Date: 09/11/2023 11:48

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Bromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Chloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Acetone	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Chloroform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Benzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Dibromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Toluene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Xylenes, total	<2.0	2.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Styrene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Bromoform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS

Keystone Laboratories - Newton
CERTIFICATE OF ANALYSIS
1G11018

Client Sample ID: MW-24
Sample Matrix: Water
Lab Sample ID: 1G11018-05

Collected By: Whipple, Todd
Collection Date: 09/11/2023 11:48

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1529	LJS
Surrogate: Dibromofluoromethane	100	Limit: 75-136	% Rec	1		09/15/23 0000	09/15/23 1529	LJS
Surrogate: Dibromofluoromethane	100	Limit: 80-126	% Rec	1		09/15/23 0000	09/15/23 1529	LJS
Surrogate: 1,2-Dichloroethane-d4	97.9	Limit: 63-138	% Rec	1		09/15/23 0000	09/15/23 1529	LJS
Surrogate: 1,2-Dichloroethane-d4	97.9	Limit: 61-142	% Rec	1		09/15/23 0000	09/15/23 1529	LJS
Surrogate: Toluene-d8	98.7	Limit: 82-121	% Rec	1		09/15/23 0000	09/15/23 1529	LJS
Surrogate: Toluene-d8	98.7	Limit: 87-116	% Rec	1		09/15/23 0000	09/15/23 1529	LJS
Surrogate: 4-Bromofluorobenzene	106	Limit: 85-111	% Rec	1		09/15/23 0000	09/15/23 1529	LJS
Surrogate: 4-Bromofluorobenzene	106	Limit: 80-116	% Rec	1		09/15/23 0000	09/15/23 1529	LJS

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2047	RVV
Arsenic, total	0.0579	0.0040	mg/L	4		09/20/23 1624	09/21/23 2047	RVV
Barium, total	0.508	0.0040	mg/L	4		09/20/23 1624	09/21/23 2047	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2047	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		09/20/23 1624	09/21/23 2047	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		09/20/23 1624	09/21/23 2047	RVV
Cobalt, total	0.0012	0.0004	mg/L	4		09/20/23 1624	09/21/23 2047	RVV
Copper, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2047	RVV
Lead, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2047	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2047	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2047	RVV
Silver, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2047	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2047	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2047	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2047	RVV

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Client Sample ID: MW-4
Sample Matrix: Water
Lab Sample ID: 1G11018-06

Collected By: Whipple, Todd
Collection Date: 09/11/2023 10:15

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Vinyl Chloride	4.2	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Bromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Chloroethane	2.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Acetone	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
cis-1,2-Dichloroethylene	2.7	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Chloroform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Benzene	1.7	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
1,2-Dichloropropane	1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Dibromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Toluene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Xylenes, total	<2.0	2.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Styrene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Bromoform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS

Keystone Laboratories - Newton
CERTIFICATE OF ANALYSIS
1G11018

Client Sample ID: MW-4
Sample Matrix: Water
Lab Sample ID: 1G11018-06

Collected By: Whipple, Todd
Collection Date: 09/11/2023 10:15

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
1,4-Dichlorobenzene	7.4	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1556	LJS
Surrogate: Dibromofluoromethane	100	Limit: 80-126	% Rec	1		09/15/23 0000	09/15/23 1556	LJS
Surrogate: Dibromofluoromethane	100	Limit: 75-136	% Rec	1		09/15/23 0000	09/15/23 1556	LJS
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 63-138	% Rec	1		09/15/23 0000	09/15/23 1556	LJS
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 61-142	% Rec	1		09/15/23 0000	09/15/23 1556	LJS
Surrogate: Toluene-d8	97.9	Limit: 82-121	% Rec	1		09/15/23 0000	09/15/23 1556	LJS
Surrogate: Toluene-d8	97.9	Limit: 87-116	% Rec	1		09/15/23 0000	09/15/23 1556	LJS
Surrogate: 4-Bromofluorobenzene	104	Limit: 85-111	% Rec	1		09/15/23 0000	09/15/23 1556	LJS
Surrogate: 4-Bromofluorobenzene	104	Limit: 80-116	% Rec	1		09/15/23 0000	09/15/23 1556	LJS

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2053	RVV
Arsenic, total	0.0607	0.0040	mg/L	4		09/20/23 1624	09/21/23 2053	RVV
Barium, total	1.01	0.0040	mg/L	4		09/20/23 1624	09/21/23 2053	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2053	RVV
Cadmium, total	0.0018	0.0008	mg/L	4		09/20/23 1624	09/21/23 2053	RVV
Chromium, total	0.0339	0.0080	mg/L	4		09/20/23 1624	09/21/23 2053	RVV
Cobalt, total	0.0109	0.0004	mg/L	4		09/20/23 1624	09/21/23 2053	RVV
Copper, total	0.0087	0.0040	mg/L	4		09/20/23 1624	09/21/23 2053	RVV
Lead, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2053	RVV
Nickel, total	0.0528	0.0040	mg/L	4		09/20/23 1624	09/21/23 2053	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2053	RVV
Silver, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2053	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2053	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2053	RVV
Zinc, total	0.0757	0.0200	mg/L	4		09/20/23 1624	09/21/23 2053	RVV

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Client Sample ID: MW-5
Sample Matrix: Water
Lab Sample ID: 1G11018-07

Collected By: Whipple, Todd
Collection Date: 09/11/2023 9:32

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Bromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Chloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Acetone	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Chloroform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Benzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Dibromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Toluene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Xylenes, total	<2.0	2.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Styrene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Bromoform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Client Sample ID: MW-5	Collected By: Whipple, Todd
Sample Matrix: Water	Collection Date: 09/11/2023 9:32
Lab Sample ID: 1G11018-07	

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1623	LJS
Surrogate: Dibromofluoromethane	101	Limit: 80-126	% Rec	1		09/15/23 0000	09/15/23 1623	LJS
Surrogate: Dibromofluoromethane	101	Limit: 75-136	% Rec	1		09/15/23 0000	09/15/23 1623	LJS
Surrogate: 1,2-Dichloroethane-d4	99.3	Limit: 63-138	% Rec	1		09/15/23 0000	09/15/23 1623	LJS
Surrogate: 1,2-Dichloroethane-d4	99.3	Limit: 61-142	% Rec	1		09/15/23 0000	09/15/23 1623	LJS
Surrogate: Toluene-d8	98.2	Limit: 82-121	% Rec	1		09/15/23 0000	09/15/23 1623	LJS
Surrogate: Toluene-d8	98.2	Limit: 87-116	% Rec	1		09/15/23 0000	09/15/23 1623	LJS
Surrogate: 4-Bromofluorobenzene	105	Limit: 80-116	% Rec	1		09/15/23 0000	09/15/23 1623	LJS
Surrogate: 4-Bromofluorobenzene	105	Limit: 85-111	% Rec	1		09/15/23 0000	09/15/23 1623	LJS

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2059	RVV
Arsenic, total	0.0711	0.0040	mg/L	4		09/20/23 1624	09/21/23 2059	RVV
Barium, total	0.302	0.0040	mg/L	4		09/20/23 1624	09/21/23 2059	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2059	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		09/20/23 1624	09/21/23 2059	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		09/20/23 1624	09/21/23 2059	RVV
Cobalt, total	0.0027	0.0004	mg/L	4		09/20/23 1624	09/21/23 2059	RVV
Copper, total	0.0096	0.0040	mg/L	4		09/20/23 1624	09/21/23 2059	RVV
Lead, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2059	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2059	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2059	RVV
Silver, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2059	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2059	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2059	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2059	RVV

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Client Sample ID: MW-12
Sample Matrix: Water
Lab Sample ID: 1G11018-08

Collected By: Whipple, Todd
Collection Date: 09/11/2023 8:58

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Bromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Chloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Acetone	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Chloroform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Benzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Dibromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Toluene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Xylenes, total	<2.0	2.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Styrene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Bromoform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Client Sample ID: MW-12	Collected By: Whipple, Todd
Sample Matrix: Water	Collection Date: 09/11/2023 8:58
Lab Sample ID: 1G11018-08	

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1649	LJS
Surrogate: Dibromofluoromethane	102	Limit: 75-136	% Rec	1		09/15/23 0000	09/15/23 1649	LJS
Surrogate: Dibromofluoromethane	102	Limit: 80-126	% Rec	1		09/15/23 0000	09/15/23 1649	LJS
Surrogate: 1,2-Dichloroethane-d4	100	Limit: 63-138	% Rec	1		09/15/23 0000	09/15/23 1649	LJS
Surrogate: 1,2-Dichloroethane-d4	100	Limit: 61-142	% Rec	1		09/15/23 0000	09/15/23 1649	LJS
Surrogate: Toluene-d8	99.8	Limit: 82-121	% Rec	1		09/15/23 0000	09/15/23 1649	LJS
Surrogate: Toluene-d8	99.8	Limit: 87-116	% Rec	1		09/15/23 0000	09/15/23 1649	LJS
Surrogate: 4-Bromofluorobenzene	105	Limit: 80-116	% Rec	1		09/15/23 0000	09/15/23 1649	LJS
Surrogate: 4-Bromofluorobenzene	105	Limit: 85-111	% Rec	1		09/15/23 0000	09/15/23 1649	LJS

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2105	RVV
Arsenic, total	0.0087	0.0040	mg/L	4		09/20/23 1624	09/21/23 2105	RVV
Barium, total	0.285	0.0040	mg/L	4		09/20/23 1624	09/21/23 2105	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2105	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		09/20/23 1624	09/21/23 2105	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		09/20/23 1624	09/21/23 2105	RVV
Cobalt, total	0.0018	0.0004	mg/L	4		09/20/23 1624	09/21/23 2105	RVV
Copper, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2105	RVV
Lead, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2105	RVV
Nickel, total	0.0041	0.0040	mg/L	4		09/20/23 1624	09/21/23 2105	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2105	RVV
Silver, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2105	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2105	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2105	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2105	RVV

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Client Sample ID: MW-15R
Sample Matrix: Water
Lab Sample ID: 1G11018-09

Collected By: Whipple, Todd
Collection Date: 09/11/2023 8:35

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Bromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Chloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Acetone	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Chloroform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Benzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Dibromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Toluene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Xylenes, total	<2.0	2.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Styrene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Bromoform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Client Sample ID:	MW-15R	Collected By:	Whipple, Todd
Sample Matrix:	Water	Collection Date:	09/11/2023 8:35
Lab Sample ID:	1G11018-09		

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1716	LJS
Surrogate: Dibromofluoromethane	106	Limit: 75-136	% Rec	1		09/15/23 0000	09/15/23 1716	LJS
Surrogate: Dibromofluoromethane	106	Limit: 80-126	% Rec	1		09/15/23 0000	09/15/23 1716	LJS
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 61-142	% Rec	1		09/15/23 0000	09/15/23 1716	LJS
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 63-138	% Rec	1		09/15/23 0000	09/15/23 1716	LJS
Surrogate: Toluene-d8	101	Limit: 82-121	% Rec	1		09/15/23 0000	09/15/23 1716	LJS
Surrogate: Toluene-d8	101	Limit: 87-116	% Rec	1		09/15/23 0000	09/15/23 1716	LJS
Surrogate: 4-Bromofluorobenzene	107	Limit: 80-116	% Rec	1		09/15/23 0000	09/15/23 1716	LJS
Surrogate: 4-Bromofluorobenzene	107	Limit: 85-111	% Rec	1		09/15/23 0000	09/15/23 1716	LJS

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2111	RVV
Arsenic, total	0.0201	0.0040	mg/L	4		09/20/23 1624	09/21/23 2111	RVV
Barium, total	0.354	0.0040	mg/L	4		09/20/23 1624	09/21/23 2111	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2111	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		09/20/23 1624	09/21/23 2111	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		09/20/23 1624	09/21/23 2111	RVV
Cobalt, total	0.0038	0.0004	mg/L	4		09/20/23 1624	09/21/23 2111	RVV
Copper, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2111	RVV
Lead, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2111	RVV
Nickel, total	0.0042	0.0040	mg/L	4		09/20/23 1624	09/21/23 2111	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2111	RVV
Silver, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2111	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2111	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2111	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2111	RVV

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Client Sample ID: MW-20R
Sample Matrix: Water
Lab Sample ID: 1G11018-10

Collected By: Whipple, Todd
Collection Date: 09/11/2023 8:35

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Bromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Chloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Acetone	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Chloroform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Benzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Dibromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Toluene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Xylenes, total	<2.0	2.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Styrene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Bromoform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Client Sample ID: MW-20R
Sample Matrix: Water
Lab Sample ID: 1G11018-10

Collected By: Whipple, Todd
Collection Date: 09/11/2023 8:35

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1743	LJS
Surrogate: Dibromofluoromethane	105	Limit: 75-136	% Rec	1		09/15/23 0000	09/15/23 1743	LJS
Surrogate: Dibromofluoromethane	105	Limit: 80-126	% Rec	1		09/15/23 0000	09/15/23 1743	LJS
Surrogate: 1,2-Dichloroethane-d4	100	Limit: 61-142	% Rec	1		09/15/23 0000	09/15/23 1743	LJS
Surrogate: 1,2-Dichloroethane-d4	100	Limit: 63-138	% Rec	1		09/15/23 0000	09/15/23 1743	LJS
Surrogate: Toluene-d8	100	Limit: 82-121	% Rec	1		09/15/23 0000	09/15/23 1743	LJS
Surrogate: Toluene-d8	100	Limit: 87-116	% Rec	1		09/15/23 0000	09/15/23 1743	LJS
Surrogate: 4-Bromofluorobenzene	108	Limit: 80-116	% Rec	1		09/15/23 0000	09/15/23 1743	LJS
Surrogate: 4-Bromofluorobenzene	108	Limit: 85-111	% Rec	1		09/15/23 0000	09/15/23 1743	LJS

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2130	RVV
Arsenic, total	0.0418	0.0040	mg/L	4		09/20/23 1624	09/21/23 2130	RVV
Barium, total	0.650	0.0040	mg/L	4		09/20/23 1624	09/21/23 2130	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2130	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		09/20/23 1624	09/21/23 2130	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		09/20/23 1624	09/21/23 2130	RVV
Cobalt, total	0.0004	0.0004	mg/L	4		09/20/23 1624	09/21/23 2130	RVV
Copper, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2130	RVV
Lead, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2130	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2130	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2130	RVV
Silver, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2130	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2130	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2130	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2130	RVV

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Client Sample ID: MW-21
Sample Matrix: Water
Lab Sample ID: 1G11018-11

Collected By: Whipple, Todd
Collection Date: 09/11/2023 9:14

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Bromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Chloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Acetone	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Chloroform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Benzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Dibromomethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Toluene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Xylenes, total	<2.0	2.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Styrene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Bromoform	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Client Sample ID: MW-21
Sample Matrix: Water
Lab Sample ID: 1G11018-11

Collected By: Whipple, Todd
Collection Date: 09/11/2023 9:14

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		09/15/23 0000	09/15/23 1809	LJS
Surrogate: Dibromofluoromethane	106	Limit: 80-126	% Rec	1		09/15/23 0000	09/15/23 1809	LJS
Surrogate: Dibromofluoromethane	106	Limit: 75-136	% Rec	1		09/15/23 0000	09/15/23 1809	LJS
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 61-142	% Rec	1		09/15/23 0000	09/15/23 1809	LJS
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 63-138	% Rec	1		09/15/23 0000	09/15/23 1809	LJS
Surrogate: Toluene-d8	99.5	Limit: 87-116	% Rec	1		09/15/23 0000	09/15/23 1809	LJS
Surrogate: Toluene-d8	99.5	Limit: 82-121	% Rec	1		09/15/23 0000	09/15/23 1809	LJS
Surrogate: 4-Bromofluorobenzene	106	Limit: 80-116	% Rec	1		09/15/23 0000	09/15/23 1809	LJS
Surrogate: 4-Bromofluorobenzene	106	Limit: 85-111	% Rec	1		09/15/23 0000	09/15/23 1809	LJS

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2136	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2136	RVV
Barium, total	0.465	0.0040	mg/L	4		09/20/23 1624	09/21/23 2136	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2136	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		09/20/23 1624	09/21/23 2136	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		09/20/23 1624	09/21/23 2136	RVV
Cobalt, total	0.0004	0.0004	mg/L	4		09/20/23 1624	09/21/23 2136	RVV
Copper, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2136	RVV
Lead, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2136	RVV
Nickel, total	0.0053	0.0040	mg/L	4		09/20/23 1624	09/21/23 2136	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2136	RVV
Silver, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2136	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2136	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2136	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2136	RVV

Keystone Laboratories - Newton
CERTIFICATE OF ANALYSIS
1GI1018

Client Sample ID: MW-25	Collected By: Whipple, Todd
Sample Matrix: Water	Collection Date: 09/11/2023 9:45
Lab Sample ID: 1GI1018-12	

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Vinyl Chloride	<1.0	1.0	ug/L	1		09/20/23 0000	09/20/23 1321	LNH
Surrogate: Dibromofluoromethane	133	Limit: 80-126	% Rec	1	S-GC	09/20/23 0000	09/20/23 1321	LNH
Surrogate: 1,2-Dichloroethane-d4	124	Limit: 63-138	% Rec	1		09/20/23 0000	09/20/23 1321	LNH
Surrogate: Toluene-d8	113	Limit: 87-116	% Rec	1		09/20/23 0000	09/20/23 1321	LNH
Surrogate: 4-Bromofluorobenzene	109	Limit: 85-111	% Rec	1		09/20/23 0000	09/20/23 1321	LNH

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Arsenic, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2142	RVV
Barium, total	0.118	0.0040	mg/L	4		09/20/23 1624	09/21/23 2142	RVV

Client Sample ID: MW-26	Collected By: Whipple, Todd
Sample Matrix: Water	Collection Date: 09/11/2023 9:59
Lab Sample ID: 1GI1018-13	

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Vinyl Chloride	<1.0	1.0	ug/L	1		09/20/23 0000	09/20/23 1348	LNH
Surrogate: Dibromofluoromethane	133	Limit: 80-126	% Rec	1	S-GC	09/20/23 0000	09/20/23 1348	LNH
Surrogate: 1,2-Dichloroethane-d4	127	Limit: 63-138	% Rec	1		09/20/23 0000	09/20/23 1348	LNH
Surrogate: Toluene-d8	111	Limit: 87-116	% Rec	1		09/20/23 0000	09/20/23 1348	LNH
Surrogate: 4-Bromofluorobenzene	109	Limit: 85-111	% Rec	1		09/20/23 0000	09/20/23 1348	LNH

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Arsenic, total	0.101	0.0040	mg/L	4		09/20/23 1624	09/21/23 2148	RVV
Barium, total	1.25	0.0040	mg/L	4		09/20/23 1624	09/21/23 2148	RVV

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GI1018

Client Sample ID:	Duplicate	Collected By:	Whipple, Todd
Sample Matrix:	Water	Collection Date:	09/11/2023
Lab Sample ID:	1GI1018-14		

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2154	RVV
Arsenic, total	0.0210	0.0040	mg/L	4		09/20/23 1624	09/21/23 2154	RVV
Barium, total	0.364	0.0040	mg/L	4		09/20/23 1624	09/21/23 2154	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2154	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		09/20/23 1624	09/21/23 2154	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		09/20/23 1624	09/21/23 2154	RVV
Cobalt, total	0.0041	0.0004	mg/L	4		09/20/23 1624	09/21/23 2154	RVV
Copper, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2154	RVV
Lead, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2154	RVV
Nickel, total	0.0046	0.0040	mg/L	4		09/20/23 1624	09/21/23 2154	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2154	RVV
Silver, total	<0.0040	0.0040	mg/L	4		09/20/23 1624	09/21/23 2154	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		09/20/23 1624	09/21/23 2154	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2154	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		09/20/23 1624	09/21/23 2154	RVV



Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GI1018

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260B	1GI0838	1GI0838-BS1	
		1GI0838-BSD1	
		1GI0838-BLK1	
		1GI1018-01	MW-9
		1GI1018-02	MW-17
		1GI1018-03	MW-18
		1GI1018-04	MW-19A
		1GI1018-05	MW-24
		1GI1018-06	MW-4
		1GI1018-07	MW-5
		1GI1018-08	MW-12
		1GI1018-09	MW-15R
		1GI1018-10	MW-20R
		1GI1018-11	MW-21
		1GI0838-MS1	1GI1018-01
1GI0838-MSD1	1GI1018-01		

Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1GI1119	1GI1119-BLK1	
		1GI1119-BS1	
		1GI1018-01	MW-9
		1GI1119-MS1	1GI1018-01
		1GI1119-MSD1	1GI1018-01
		1GI1119-PS1	1GI1018-01
		1GI1018-02	MW-17
		1GI1018-03	MW-18
		1GI1018-04	MW-19A
		1GI1018-05	MW-24
		1GI1018-06	MW-4
		1GI1018-07	MW-5
		1GI1018-08	MW-12
		1GI1018-09	MW-15R
		1GI1018-10	MW-20R
1GI1018-11	MW-21		
1GI1018-12	MW-25		
1GI1018-13	MW-26		
1GI1018-14	Duplicate		

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260B	1GI1126	1GI1126-BS1	



Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GI1018

EPA 8260B

1GI1126

1GI1126-BSD1

1GI1126-BLK1

1GI1018-12

MW-25

1GI1018-13

MW-26

1GI1126-MS1

1GI0835-01

1GI1126-MSD1

1GI0835-01

Batch Quality Control Summary: Keystone Laboratories - Newton

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GI0838 - EPA 5030B - EPA 8260B

Blank (1GI0838-BLK1)

Prepared: 09/15/23 00:00 Analyzed: 09/15/23 11:35

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

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GI1018

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GI0838 - EPA 5030B - EPA 8260B										
Blank (1GI0838-BLK1)										
Prepared: 09/15/23 00:00 Analyzed: 09/15/23 11:35										
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							
1,1,1,2-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							
<i>Surrogate: Dibromofluoromethane</i>	48.8		ug/L	50.4		97.0	80-126			
<i>Surrogate: Dibromofluoromethane</i>	48.8		ug/L	50.4		97.0	75-136			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	47.9		ug/L	50.4		95.1	63-138			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	47.9		ug/L	50.4		95.1	61-142			
<i>Surrogate: Toluene-d8</i>	48.9		ug/L	50.2		97.4	87-116			
<i>Surrogate: Toluene-d8</i>	48.9		ug/L	50.2		97.4	82-121			
<i>Surrogate: 4-Bromofluorobenzene</i>	53.3		ug/L	50.4		106	85-111			
<i>Surrogate: 4-Bromofluorobenzene</i>	53.3		ug/L	50.4		106	80-116			
LCS (1GI0838-BS1)										
Prepared: 09/15/23 00:00 Analyzed: 09/15/23 09:22										
Chloromethane	29.94	1.0	ug/L	30.0		99.8	63-155			
Vinyl Chloride	29.55	1.0	ug/L	30.0		98.5	70-154			
Bromomethane	32.95	1.0	ug/L	30.0		110	52-176			
Chloroethane	31.75	1.0	ug/L	30.0		106	72-148			
Trichlorofluoromethane	27.80	1.0	ug/L	30.0		92.7	70-152			
1,1-Dichloroethylene	51.19	1.0	ug/L	50.0		102	70-148			
Acetone	114.8	10.0	ug/L	104		110	43-172			
Methyl Iodide	118.6	1.0	ug/L	113		105	69-170			
Carbon Disulfide	100.7	1.0	ug/L	106		94.7	72-162			
Methylene Chloride	50.60	5.0	ug/L	50.0		101	68-142			
Acrylonitrile	109.6	5.0	ug/L	100		109	67-144			
trans-1,2-Dichloroethylene	49.48	1.0	ug/L	50.0		99.0	66-148			
1,1-Dichloroethane	48.62	1.0	ug/L	50.0		97.2	66-143			
Vinyl Acetate	222.5	5.0	ug/L	103		215	43-153			QS-02
cis-1,2-Dichloroethylene	54.78	1.0	ug/L	49.5		111	71-149			
2-Butanone (MEK)	128.0	10.0	ug/L	106		121	52-159			
Bromochloromethane	49.62	1.0	ug/L	50.0		99.2	69-143			
Chloroform	49.08	1.0	ug/L	50.0		98.2	69-144			
1,1,1-Trichloroethane	45.55	1.0	ug/L	50.0		91.1	62-129			
Carbon Tetrachloride	49.75	1.0	ug/L	50.0		99.5	63-141			
Benzene	54.19	1.0	ug/L	50.0		108	71-134			



Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GI1018

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GI0838 - EPA 5030B - EPA 8260B										
LCS (1GI0838-BS1)										
				Prepared: 09/15/23 00:00 Analyzed: 09/15/23 09:22						
1,2-Dichloroethane	51.79	1.0	ug/L	50.0		104	72-132			
Trichloroethylene	50.06	1.0	ug/L	50.0		100	71-135			
1,2-Dichloropropane	52.43	1.0	ug/L	50.0		105	69-136			
Dibromomethane	61.68	1.0	ug/L	50.0		123	73-147			
Bromodichloromethane	50.12	1.0	ug/L	50.0		100	68-129			
cis-1,3-Dichloropropene	51.85	1.0	ug/L	50.3		103	65-134			
4-Methyl-2-pentanone (MIBK)	133.8	5.0	ug/L	103		130	58-147			
Toluene	51.28	1.0	ug/L	50.0		103	72-133			
trans-1,3-Dichloropropene	54.26	1.0	ug/L	50.4		108	67-130			
1,1,2-Trichloroethane	55.74	1.0	ug/L	50.0		111	69-135			
Tetrachloroethylene	55.09	1.0	ug/L	50.0		110	69-130			
2-Hexanone (MBK)	142.6	5.0	ug/L	110		129	55-144			
Dibromochloromethane	55.71	1.0	ug/L	49.5		113	73-127			
1,2-Dibromoethane	56.18	1.0	ug/L	50.0		112	67-132			
Chlorobenzene	54.61	1.0	ug/L	50.0		109	72-123			
1,1,1,2-Tetrachloroethane	55.15	1.0	ug/L	50.0		110	73-127			
Ethylbenzene	54.83	1.0	ug/L	50.0		110	71-127			
Xylenes, total	158.1	2.0	ug/L	150		105	74-127			
Styrene	53.57	1.0	ug/L	50.0		107	66-126			
Bromoform	59.91	1.0	ug/L	50.0		120	68-130			
1,2,3-Trichloropropane	61.40	1.0	ug/L	50.0		123	63-136			
trans-1,4-Dichloro-2-butene	94.88	5.0	ug/L	102		92.7	54-134			
1,1,2,2-Tetrachloroethane	56.80	1.0	ug/L	49.8		114	61-131			
1,4-Dichlorobenzene	56.67	1.0	ug/L	50.0		113	70-129			
1,2-Dichlorobenzene	55.85	1.0	ug/L	50.0		112	69-126			
1,2-Dibromo-3-chloropropane	61.69	5.0	ug/L	50.0		123	50-143			
Surrogate: Dibromofluoromethane	43.0		ug/L	50.4		85.5	80-126			
Surrogate: Dibromofluoromethane	43.0		ug/L	50.4		85.5	75-136			
Surrogate: 1,2-Dichloroethane-d4	45.6		ug/L	50.4		90.4	63-138			
Surrogate: 1,2-Dichloroethane-d4	45.6		ug/L	50.4		90.4	61-142			
Surrogate: Toluene-d8	50.0		ug/L	50.2		99.6	87-116			
Surrogate: Toluene-d8	50.0		ug/L	50.2		99.6	82-121			
Surrogate: 4-Bromofluorobenzene	47.1		ug/L	50.4		93.4	85-111			
Surrogate: 4-Bromofluorobenzene	47.1		ug/L	50.4		93.4	80-116			
LCS Dup (1GI0838-BS1)										
				Prepared: 09/15/23 00:00 Analyzed: 09/15/23 09:48						
Chloromethane	30.51	1.0	ug/L	30.0		102	63-155	1.89	24	
Vinyl Chloride	30.80	1.0	ug/L	30.0		103	70-154	4.14	25	
Bromomethane	32.54	1.0	ug/L	30.0		108	52-176	1.25	27	
Chloroethane	32.64	1.0	ug/L	30.0		109	72-148	2.76	25	
Trichlorofluoromethane	28.23	1.0	ug/L	30.0		94.1	70-152	1.53	26	
1,1-Dichloroethylene	52.36	1.0	ug/L	50.0		105	70-148	2.26	24	
Acetone	112.4	10.0	ug/L	104		108	43-172	2.08	30	
Methyl Iodide	122.3	1.0	ug/L	113		109	69-170	3.05	30	



Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GI1018

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GI0838 - EPA 5030B - EPA 8260B										
LCS Dup (1GI0838-BSD1)										
				Prepared: 09/15/23 00:00 Analyzed: 09/15/23 09:48						
Carbon Disulfide	102.7	1.0	ug/L	106		96.5	72-162	1.89	24	
Methylene Chloride	50.38	5.0	ug/L	50.0		101	68-142	0.436	21	
Acrylonitrile	108.8	5.0	ug/L	100		108	67-144	0.723	24	
trans-1,2-Dichloroethylene	50.62	1.0	ug/L	50.0		101	66-148	2.28	27	
1,1-Dichloroethane	49.57	1.0	ug/L	50.0		99.1	66-143	1.94	24	
Vinyl Acetate	219.6	5.0	ug/L	103		213	43-153	1.30	30	QS-02
cis-1,2-Dichloroethylene	55.64	1.0	ug/L	49.5		112	71-149	1.56	26	
2-Butanone (MEK)	129.3	10.0	ug/L	106		122	52-159	1.03	27	
Bromochloromethane	48.83	1.0	ug/L	50.0		97.7	69-143	1.60	23	
Chloroform	49.51	1.0	ug/L	50.0		99.0	69-144	0.872	23	
1,1,1-Trichloroethane	47.04	1.0	ug/L	50.0		94.1	62-129	3.22	24	
Carbon Tetrachloride	51.66	1.0	ug/L	50.0		103	63-141	3.77	25	
Benzene	54.62	1.0	ug/L	50.0		109	71-134	0.790	24	
1,2-Dichloroethane	52.39	1.0	ug/L	50.0		105	72-132	1.15	24	
Trichloroethylene	51.69	1.0	ug/L	50.0		103	71-135	3.20	24	
1,2-Dichloropropane	52.85	1.0	ug/L	50.0		106	69-136	0.798	24	
Dibromomethane	60.38	1.0	ug/L	50.0		121	73-147	2.13	25	
Bromodichloromethane	50.27	1.0	ug/L	50.0		101	68-129	0.299	22	
cis-1,3-Dichloropropene	51.72	1.0	ug/L	50.3		103	65-134	0.251	23	
4-Methyl-2-pentanone (MIBK)	130.6	5.0	ug/L	103		127	58-147	2.37	27	
Toluene	52.13	1.0	ug/L	50.0		104	72-133	1.64	24	
trans-1,3-Dichloropropene	53.95	1.0	ug/L	50.4		107	67-130	0.573	24	
1,1,2-Trichloroethane	55.70	1.0	ug/L	50.0		111	69-135	0.0718	23	
Tetrachloroethylene	56.31	1.0	ug/L	50.0		113	69-130	2.19	25	
2-Hexanone (MBK)	140.5	5.0	ug/L	110		127	55-144	1.48	25	
Dibromochloromethane	56.10	1.0	ug/L	49.5		113	73-127	0.698	22	
1,2-Dibromoethane	55.75	1.0	ug/L	50.0		112	67-132	0.768	24	
Chlorobenzene	55.16	1.0	ug/L	50.0		110	72-123	1.00	23	
1,1,1,2-Tetrachloroethane	55.80	1.0	ug/L	50.0		112	73-127	1.17	24	
Ethylbenzene	55.74	1.0	ug/L	50.0		111	71-127	1.65	26	
Xylenes, total	160.9	2.0	ug/L	150		107	74-127	1.75	25	
Styrene	53.92	1.0	ug/L	50.0		108	66-126	0.651	23	
Bromoform	60.51	1.0	ug/L	50.0		121	68-130	0.997	23	
1,2,3-Trichloropropane	60.84	1.0	ug/L	50.0		122	63-136	0.916	24	
trans-1,4-Dichloro-2-butene	94.59	5.0	ug/L	102		92.4	54-134	0.306	27	
1,1,2,2-Tetrachloroethane	56.67	1.0	ug/L	49.8		114	61-131	0.229	29	
1,4-Dichlorobenzene	57.00	1.0	ug/L	50.0		114	70-129	0.581	24	
1,2-Dichlorobenzene	56.22	1.0	ug/L	50.0		112	69-126	0.660	26	
1,2-Dibromo-3-chloropropane	62.69	5.0	ug/L	50.0		125	50-143	1.61	30	
Surrogate: Dibromofluoromethane	42.8		ug/L	50.4		85.1	80-126			
Surrogate: Dibromofluoromethane	42.8		ug/L	50.4		85.1	75-136			
Surrogate: 1,2-Dichloroethane-d4	45.5		ug/L	50.4		90.2	63-138			
Surrogate: 1,2-Dichloroethane-d4	45.5		ug/L	50.4		90.2	61-142			



Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GI1018

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GI0838 - EPA 5030B - EPA 8260B

LCS Dup (1GI0838-BSD1)

Prepared: 09/15/23 00:00 Analyzed: 09/15/23 09:48

Surrogate: Toluene-d8	49.7		ug/L	50.2		99.0	87-116			
Surrogate: Toluene-d8	49.7		ug/L	50.2		99.0	82-121			
Surrogate: 4-Bromofluorobenzene	47.4		ug/L	50.4		94.0	85-111			
Surrogate: 4-Bromofluorobenzene	47.4		ug/L	50.4		94.0	80-116			

Matrix Spike (1GI0838-MS1)

Source: 1GI1018-01

Prepared: 09/15/23 00:00 Analyzed: 09/15/23 21:16

Chloromethane	311.3	10.0	ug/L	300	ND	104	61-152			
Vinyl Chloride	314.5	10.0	ug/L	300	ND	105	66-149			
Bromomethane	321.9	10.0	ug/L	300	ND	107	43-171			
Chloroethane	338.4	10.0	ug/L	300	ND	113	69-148			
Trichlorofluoromethane	301.2	10.0	ug/L	300	ND	100	62-163			
1,1-Dichloroethylene	566.5	10.0	ug/L	500	ND	113	70-148			
Acetone	1120	100	ug/L	1040	ND	108	45-173			
Methyl Iodide	1166	10.0	ug/L	1130	ND	104	62-167			
Carbon Disulfide	1093	10.0	ug/L	1060	ND	103	71-163			
Methylene Chloride	543.6	50.0	ug/L	500	ND	109	69-140			
Acrylonitrile	1133	50.0	ug/L	1000	ND	113	58-151			
trans-1,2-Dichloroethylene	542.1	10.0	ug/L	500	ND	108	69-144			
1,1-Dichloroethane	531.2	10.0	ug/L	500	ND	106	70-138			
Vinyl Acetate	2269	50.0	ug/L	1030	ND	220	58-142			QS-02
cis-1,2-Dichloroethylene	570.6	10.0	ug/L	495	ND	115	68-151			
2-Butanone (MEK)	1142	100	ug/L	1060	ND	108	50-160			
Bromochloromethane	537.4	10.0	ug/L	500	ND	107	65-143			
Chloroform	523.6	10.0	ug/L	500	ND	105	71-143			
1,1,1-Trichloroethane	492.5	10.0	ug/L	500	ND	98.5	63-133			
Carbon Tetrachloride	531.2	10.0	ug/L	500	ND	106	63-142			
Benzene	557.4	10.0	ug/L	500	ND	111	69-133			
1,2-Dichloroethane	519.6	10.0	ug/L	500	ND	104	63-138			
Trichloroethylene	520.5	10.0	ug/L	500	ND	104	71-133			
1,2-Dichloropropane	528.1	10.0	ug/L	500	ND	106	69-132			
Dibromomethane	609.0	10.0	ug/L	500	ND	122	70-147			
Bromodichloromethane	500.9	10.0	ug/L	500	ND	100	67-130			
cis-1,3-Dichloropropene	509.7	10.0	ug/L	503	ND	101	61-126			
4-Methyl-2-pentanone (MIBK)	1158	50.0	ug/L	1030	ND	112	55-147			
Toluene	511.4	10.0	ug/L	500	ND	102	71-133			
trans-1,3-Dichloropropene	509.2	10.0	ug/L	504	ND	101	63-124			
1,1,2-Trichloroethane	535.1	10.0	ug/L	500	ND	107	69-133			
Tetrachloroethylene	543.5	10.0	ug/L	500	ND	109	70-124			
2-Hexanone (MBK)	1263	50.0	ug/L	1100	ND	115	53-141			
Dibromochloromethane	537.0	10.0	ug/L	495	ND	108	74-122			
1,2-Dibromoethane	536.9	10.0	ug/L	500	ND	107	66-127			
Chlorobenzene	533.6	10.0	ug/L	500	ND	107	76-116			
1,1,1,2-Tetrachloroethane	530.0	10.0	ug/L	500	ND	106	77-121			



Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GI1018

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GI0838 - EPA 5030B - EPA 8260B										
Matrix Spike (1GI0838-MS1)	Source: 1GI1018-01			Prepared: 09/15/23 00:00 Analyzed: 09/15/23 21:16						
Ethylbenzene	546.6	10.0	ug/L	500	ND	109	73-124			
Xylenes, total	1589	20.0	ug/L	1500	ND	106	75-123			
Styrene	535.4	10.0	ug/L	500	ND	107	70-120			
Bromoform	561.5	10.0	ug/L	500	ND	112	70-124			
1,2,3-Trichloropropane	588.1	10.0	ug/L	500	ND	118	62-135			
trans-1,4-Dichloro-2-butene	854.7	50.0	ug/L	1020	ND	83.5	50-120			
1,1,2,2-Tetrachloroethane	525.8	10.0	ug/L	498	ND	105	63-126			
1,4-Dichlorobenzene	539.4	10.0	ug/L	500	ND	108	72-119			
1,2-Dichlorobenzene	530.5	10.0	ug/L	500	ND	106	71-117			
1,2-Dibromo-3-chloropropane	533.0	50.0	ug/L	500	ND	107	49-134			
<i>Surrogate: Dibromofluoromethane</i>	466		ug/L	504		92.5	80-126			
<i>Surrogate: Dibromofluoromethane</i>	466		ug/L	504		92.5	75-136			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	496		ug/L	504		98.3	63-138			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	496		ug/L	504		98.3	61-142			
<i>Surrogate: Toluene-d8</i>	504		ug/L	502		100	87-116			
<i>Surrogate: Toluene-d8</i>	504		ug/L	502		100	82-121			
<i>Surrogate: 4-Bromofluorobenzene</i>	484		ug/L	504		95.9	85-111			
<i>Surrogate: 4-Bromofluorobenzene</i>	484		ug/L	504		95.9	80-116			
Matrix Spike Dup (1GI0838-MSD1)	Source: 1GI1018-01			Prepared: 09/15/23 00:00 Analyzed: 09/15/23 21:43						
Chloromethane	284.3	10.0	ug/L	300	ND	94.8	61-152	9.07	26	
Vinyl Chloride	287.3	10.0	ug/L	300	ND	95.8	66-149	9.04	23	
Bromomethane	297.5	10.0	ug/L	300	ND	99.2	43-171	7.88	29	
Chloroethane	302.2	10.0	ug/L	300	ND	101	69-148	11.3	25	
Trichlorofluoromethane	273.5	10.0	ug/L	300	ND	91.2	62-163	9.64	25	
1,1-Dichloroethylene	514.6	10.0	ug/L	500	ND	103	70-148	9.60	22	
Acetone	1085	100	ug/L	1040	ND	104	45-173	3.19	30	
Methyl Iodide	1148	10.0	ug/L	1130	ND	102	62-167	1.49	24	
Carbon Disulfide	998.2	10.0	ug/L	1060	ND	93.8	71-163	9.05	22	
Methylene Chloride	502.6	50.0	ug/L	500	ND	101	69-140	7.84	19	
Acrylonitrile	1087	50.0	ug/L	1000	ND	108	58-151	4.13	15	
trans-1,2-Dichloroethylene	499.5	10.0	ug/L	500	ND	99.9	69-144	8.18	22	
1,1-Dichloroethane	494.9	10.0	ug/L	500	ND	99.0	70-138	7.08	20	
Vinyl Acetate	2187	50.0	ug/L	1030	ND	212	58-142	3.68	24	QS-02
cis-1,2-Dichloroethylene	546.2	10.0	ug/L	495	ND	110	68-151	4.37	22	
2-Butanone (MEK)	1176	100	ug/L	1060	ND	111	50-160	2.95	23	
Bromochloromethane	504.8	10.0	ug/L	500	ND	101	65-143	6.26	22	
Chloroform	497.3	10.0	ug/L	500	ND	99.5	71-143	5.15	21	
1,1,1-Trichloroethane	466.5	10.0	ug/L	500	ND	93.3	63-133	5.42	23	
Carbon Tetrachloride	502.5	10.0	ug/L	500	ND	100	63-142	5.55	22	
Benzene	530.4	10.0	ug/L	500	ND	106	69-133	4.96	18	
1,2-Dichloroethane	505.4	10.0	ug/L	500	ND	101	63-138	2.77	20	
Trichloroethylene	488.3	10.0	ug/L	500	ND	97.7	71-133	6.38	23	
1,2-Dichloropropane	514.3	10.0	ug/L	500	ND	103	69-132	2.65	20	

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GI1018

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GI0838 - EPA 5030B - EPA 8260B										
Matrix Spike Dup (1GI0838-MSD1)	Source: 1GI1018-01			Prepared: 09/15/23 00:00 Analyzed: 09/15/23 21:43						
Dibromomethane	596.4	10.0	ug/L	500	ND	119	70-147	2.09	22	
Bromodichloromethane	482.1	10.0	ug/L	500	ND	96.4	67-130	3.83	21	
cis-1,3-Dichloropropene	491.1	10.0	ug/L	503	ND	97.6	61-126	3.72	21	
4-Methyl-2-pentanone (MIBK)	1169	50.0	ug/L	1030	ND	113	55-147	0.997	23	
Toluene	489.4	10.0	ug/L	500	ND	97.9	71-133	4.40	19	
trans-1,3-Dichloropropene	503.4	10.0	ug/L	504	ND	99.8	63-124	1.15	21	
1,1,1,2-Trichloroethane	529.9	10.0	ug/L	500	ND	106	69-133	0.977	19	
Tetrachloroethylene	518.9	10.0	ug/L	500	ND	104	70-124	4.63	24	
2-Hexanone (MBK)	1285	50.0	ug/L	1100	ND	116	53-141	1.70	24	
Dibromochloromethane	526.4	10.0	ug/L	495	ND	106	74-122	1.99	21	
1,2-Dibromoethane	530.6	10.0	ug/L	500	ND	106	66-127	1.18	23	
Chlorobenzene	514.8	10.0	ug/L	500	ND	103	76-116	3.59	21	
1,1,1,2-Tetrachloroethane	517.7	10.0	ug/L	500	ND	104	77-121	2.35	25	
Ethylbenzene	524.7	10.0	ug/L	500	ND	105	73-124	4.09	20	
Xylenes, total	1522	20.0	ug/L	1500	ND	101	75-123	4.29	20	
Styrene	522.0	10.0	ug/L	500	ND	104	70-120	2.53	23	
Bromoform	561.4	10.0	ug/L	500	ND	112	70-124	0.0178	22	
1,2,3-Trichloropropane	580.2	10.0	ug/L	500	ND	116	62-135	1.35	28	
trans-1,4-Dichloro-2-butene	847.8	50.0	ug/L	1020	ND	82.8	50-120	0.811	26	
1,1,1,2-Tetrachloroethane	526.2	10.0	ug/L	498	ND	106	63-126	0.0761	24	
1,4-Dichlorobenzene	528.3	10.0	ug/L	500	ND	106	72-119	2.08	24	
1,2-Dichlorobenzene	523.4	10.0	ug/L	500	ND	105	71-117	1.35	24	
1,2-Dibromo-3-chloropropane	543.2	50.0	ug/L	500	ND	109	49-134	1.90	28	
Surrogate: Dibromofluoromethane	454		ug/L	504		90.2	80-126			
Surrogate: Dibromofluoromethane	454		ug/L	504		90.2	75-136			
Surrogate: 1,2-Dichloroethane-d4	489		ug/L	504		97.0	63-138			
Surrogate: 1,2-Dichloroethane-d4	489		ug/L	504		97.0	61-142			
Surrogate: Toluene-d8	504		ug/L	502		100	87-116			
Surrogate: Toluene-d8	504		ug/L	502		100	82-121			
Surrogate: 4-Bromofluorobenzene	484		ug/L	504		96.1	85-111			
Surrogate: 4-Bromofluorobenzene	484		ug/L	504		96.1	80-116			
Batch 1GI1126 - EPA 5030B - EPA 8260B										
Blank (1GI1126-BLK1)	Prepared: 09/20/23 00:00 Analyzed: 09/20/23 09:46									
Vinyl Chloride	<1.0	1.0	ug/L							
Surrogate: Dibromofluoromethane	63.8		ug/L	50.4		127	80-126			S-GC
Surrogate: 1,2-Dichloroethane-d4	61.3		ug/L	50.4		122	63-138			
Surrogate: Toluene-d8	56.0		ug/L	50.2		111	87-116			
Surrogate: 4-Bromofluorobenzene	54.9		ug/L	50.4		109	85-111			
LCS (1GI1126-BS1)	Prepared: 09/20/23 00:00 Analyzed: 09/20/23 08:26									
Vinyl Chloride	29.00	1.0	ug/L	30.0		96.7	62-151			



Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GI1018

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GI1126 - EPA 5030B - EPA 8260B

LCS (1GI1126-BS1)

Prepared: 09/20/23 00:00 Analyzed: 09/20/23 08:26

Surrogate: Dibromofluoromethane	42.2		ug/L	50.4		83.8	80-126			
Surrogate: 1,2-Dichloroethane-d4	48.1		ug/L	50.4		95.4	63-138			
Surrogate: Toluene-d8	51.0		ug/L	50.2		102	87-116			
Surrogate: 4-Bromofluorobenzene	48.8		ug/L	50.4		96.8	85-111			

LCS Dup (1GI1126-BSD1)

Prepared: 09/20/23 00:00 Analyzed: 09/20/23 08:53

Vinyl Chloride	35.48	1.0	ug/L	30.0		118	62-151	20.1	28	
Surrogate: Dibromofluoromethane	57.4		ug/L	50.4		114	80-126			
Surrogate: 1,2-Dichloroethane-d4	60.1		ug/L	50.4		119	63-138			
Surrogate: Toluene-d8	54.6		ug/L	50.2		109	87-116			
Surrogate: 4-Bromofluorobenzene	52.4		ug/L	50.4		104	85-111			

Matrix Spike (1GI1126-MS1)

Source: 1GI0835-01

Prepared: 09/20/23 00:00 Analyzed: 09/20/23 18:27

Vinyl Chloride	133.6	4.0	ug/L	120	ND	111	61-152			
Surrogate: Dibromofluoromethane	230		ug/L	201		114	80-126			
Surrogate: 1,2-Dichloroethane-d4	243		ug/L	202		120	63-138			
Surrogate: Toluene-d8	218		ug/L	201		109	87-116			
Surrogate: 4-Bromofluorobenzene	209		ug/L	202		104	85-111			

Matrix Spike Dup (1GI1126-MSD1)

Source: 1GI0835-01

Prepared: 09/20/23 00:00 Analyzed: 09/20/23 18:54

Vinyl Chloride	142.2	4.0	ug/L	120	ND	119	61-152	6.29	24	
Surrogate: Dibromofluoromethane	231		ug/L	201		115	80-126			
Surrogate: 1,2-Dichloroethane-d4	241		ug/L	202		120	63-138			
Surrogate: Toluene-d8	218		ug/L	201		109	87-116			
Surrogate: 4-Bromofluorobenzene	208		ug/L	202		103	85-111			

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GI1119 - EPA 3005A Total Recoverable Metals - EPA 6020A

Blank (1GI1119-BLK1)

Prepared: 09/20/23 16:24 Analyzed: 09/21/23 19:41

Antimony, total	<0.0020	0.0020	mg/L							
Arsenic, total	<0.0040	0.0040	mg/L							
Barium, total	<0.0040	0.0040	mg/L							
Beryllium, total	<0.0040	0.0040	mg/L							
Cadmium, total	<0.0008	0.0008	mg/L							
Chromium, total	<0.0080	0.0080	mg/L							
Cobalt, total	<0.0004	0.0004	mg/L							
Copper, total	<0.0040	0.0040	mg/L							
Lead, total	<0.0040	0.0040	mg/L							
Nickel, total	<0.0040	0.0040	mg/L							
Selenium, total	<0.0040	0.0040	mg/L							
Silver, total	<0.0040	0.0040	mg/L							
Thallium, total	<0.0020	0.0020	mg/L							



Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GI1018

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GI1119 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1GI1119-BLK1)										
				Prepared: 09/20/23 16:24 Analyzed: 09/21/23 19:41						
Vanadium, total	<0.0200	0.0200	mg/L							
Zinc, total	<0.0200	0.0200	mg/L							
LCS (1GI1119-BS1)										
				Prepared: 09/20/23 16:24 Analyzed: 09/21/23 19:47						
Antimony, total	0.0929	0.0020	mg/L	0.100		92.9	80-120			
Arsenic, total	0.0955	0.0040	mg/L	0.100		95.5	80-120			
Barium, total	0.102	0.0040	mg/L	0.100		102	80-120			
Beryllium, total	0.0936	0.0040	mg/L	0.100		93.6	80-120			
Cadmium, total	0.0935	0.0008	mg/L	0.100		93.5	80-120			
Chromium, total	0.0941	0.0080	mg/L	0.100		94.1	80-120			
Cobalt, total	0.104	0.0004	mg/L	0.100		104	80-120			
Copper, total	0.101	0.0040	mg/L	0.100		101	80-120			
Lead, total	0.0966	0.0040	mg/L	0.100		96.6	80-120			
Nickel, total	0.102	0.0040	mg/L	0.100		102	80-120			
Selenium, total	0.0896	0.0040	mg/L	0.100		89.6	80-120			
Silver, total	0.100	0.0040	mg/L	0.100		100	80-120			
Thallium, total	0.0970	0.0020	mg/L	0.100		97.0	80-120			
Vanadium, total	0.0979	0.0200	mg/L	0.100		97.9	80-120			
Zinc, total	0.0924	0.0200	mg/L	0.100		92.4	80-120			
Matrix Spike (1GI1119-MS1)										
			Source: 1GI1018-01		Prepared: 09/20/23 16:24 Analyzed: 09/21/23 19:59					
Antimony, total	0.0938	0.0020	mg/L	0.100	ND	93.8	75-125			
Arsenic, total	0.104	0.0040	mg/L	0.100	0.0072	97.1	75-125			
Barium, total	0.401	0.0040	mg/L	0.100	0.288	113	75-125			
Beryllium, total	0.0951	0.0040	mg/L	0.100	ND	95.1	75-125			
Cadmium, total	0.0913	0.0008	mg/L	0.100	0.0007	90.5	75-125			
Chromium, total	0.0912	0.0080	mg/L	0.100	0.0008	90.3	75-125			
Cobalt, total	0.105	0.0004	mg/L	0.100	0.0053	99.7	75-125			
Copper, total	0.0927	0.0040	mg/L	0.100	0.0035	89.2	75-125			
Lead, total	0.0908	0.0040	mg/L	0.100	ND	90.8	75-125			
Nickel, total	0.106	0.0040	mg/L	0.100	0.0098	96.6	75-125			
Selenium, total	0.0907	0.0040	mg/L	0.100	ND	90.7	75-125			
Silver, total	0.0962	0.0040	mg/L	0.100	ND	96.2	75-125			
Thallium, total	0.0937	0.0020	mg/L	0.100	0.0002	93.5	75-125			
Vanadium, total	0.0961	0.0200	mg/L	0.100	ND	96.1	75-125			
Zinc, total	0.0882	0.0200	mg/L	0.100	ND	88.2	75-125			
Matrix Spike Dup (1GI1119-MSD1)										
			Source: 1GI1018-01		Prepared: 09/20/23 16:24 Analyzed: 09/21/23 20:17					
Antimony, total	0.0939	0.0020	mg/L	0.100	ND	93.9	75-125	0.110	20	
Arsenic, total	0.104	0.0040	mg/L	0.100	0.0072	97.1	75-125	0.0291	20	
Barium, total	0.406	0.0040	mg/L	0.100	0.288	119	75-125	1.37	20	
Beryllium, total	0.0939	0.0040	mg/L	0.100	ND	93.9	75-125	1.26	20	
Cadmium, total	0.0902	0.0008	mg/L	0.100	0.0007	89.5	75-125	1.17	20	
Chromium, total	0.0918	0.0080	mg/L	0.100	0.0008	90.9	75-125	0.639	20	
Cobalt, total	0.106	0.0004	mg/L	0.100	0.0053	101	75-125	1.37	20	
Copper, total	0.0936	0.0040	mg/L	0.100	0.0035	90.0	75-125	0.891	20	

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1G11018

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G1119 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Matrix Spike Dup (1G1119-MSD1)										
			Source: 1G11018-01		Prepared: 09/20/23 16:24 Analyzed: 09/21/23 20:17					
Lead, total	0.0910	0.0040	mg/L	0.100	ND	91.0	75-125	0.275	20	
Nickel, total	0.106	0.0040	mg/L	0.100	0.0098	96.6	75-125	0.0192	20	
Selenium, total	0.0919	0.0040	mg/L	0.100	ND	91.9	75-125	1.25	20	
Silver, total	0.0976	0.0040	mg/L	0.100	ND	97.6	75-125	1.48	20	
Thallium, total	0.0944	0.0020	mg/L	0.100	0.0002	94.2	75-125	0.753	20	
Vanadium, total	0.0958	0.0200	mg/L	0.100	ND	95.8	75-125	0.334	20	
Zinc, total	0.0927	0.0200	mg/L	0.100	ND	92.7	75-125	4.97	20	

Post Spike (1G1119-PS1)										
			Source: 1G11018-01		Prepared: 09/20/23 16:24 Analyzed: 09/21/23 20:23					
Antimony, total	0.0766		mg/L	0.0800	0.0003	95.3	80-120			
Arsenic, total	0.0851		mg/L	0.0800	0.0071	97.5	80-120			
Barium, total	0.374		mg/L	0.0800	0.282	115	80-120			
Beryllium, total	0.0764		mg/L	0.0800	0.00003	95.4	80-120			
Cadmium, total	0.0737		mg/L	0.0800	0.0007	91.2	80-120			
Chromium, total	0.0739		mg/L	0.0800	0.0008	91.3	80-120			
Cobalt, total	0.0866		mg/L	0.0800	0.0052	102	80-120			
Copper, total	0.0760		mg/L	0.0800	0.0035	90.7	80-120			
Lead, total	0.0738		mg/L	0.0800	0.0005	91.6	80-120			
Nickel, total	0.0891		mg/L	0.0800	0.0096	99.3	80-120			
Selenium, total	0.0718		mg/L	0.0800	0.0002	89.5	80-120			
Silver, total	0.0773		mg/L	0.0800	0.0005	96.0	80-120			
Thallium, total	0.0766		mg/L	0.0800	0.0002	95.6	80-120			
Vanadium, total	0.0813		mg/L	0.0800	0.0046	96.0	80-120			
Zinc, total	0.0724		mg/L	0.0800	0.0019	88.1	80-120			

Definitions

- QS-02:** The spike recovery for this QC sample exceeded established acceptance limits. However, all samples were below the reporting and/or regulatory limit so the data is acceptable.
- RL:** Reporting Limit
- RPD:** Relative Percent Difference
- S-GC:** Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 3.6°C

Cooler Inspection Checklist

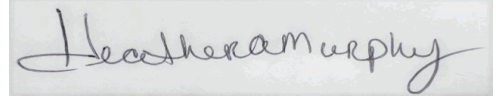
Custody Seals	No	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Confirmed	No
Received On Ice	Yes		

Keystone Laboratories - Newton
CERTIFICATE OF ANALYSIS
1G11018

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
09/29/23 16:47

CHAIN OF CUSTODY RECORD



600 East 17th Street South
 Newton, IA 50208
 641-792-8451



1 G I 1 0 1 8

HLW Engineering
 PM: Sue Thompson

Page 1 of 3
 023 9:55:15AM
 keystone labs.com

SITE INFORMATION

Sampler: TODD WHIPPLE
 Project: South Dallas Co. - New Regs

Appendix Sampling

REPORT TO

Todd Whipple
 HLW Engineering
 PO Box 314
 Story City, IA 50248

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

LAB USE ONLY

Work Order 1G11018
 Temperature 3.6
 Turn-Cooler: No

- Custody Seal
- Containers Intact
- COC/Labels Agree
- Preservation Confirmed
- Received on Ice

SPECIAL INSTRUCTIONS

None

Turn Around Time

Standard RUSH, need by / /

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
01-001	MW-2 <u>DRY</u>	Water	GRAB	<u>9/11/23</u>	<u>—</u>	<u>0</u>	Indfill-app1-voc-group Indfill-app1-metals-6020	<u>—</u>
02-001	MW-9	Water	GRAB	<u>9/11/23</u>	<u>12:31</u>	<u>7</u>	Indfill-app1-voc-group Indfill-app1-metals-6020	<u>01</u>
03-001	MW-17	Water	GRAB	<u>9/11/23</u>	<u>10:49</u>	<u>7</u>	Indfill-app1-voc-group Indfill-app1-metals-6020	<u>02</u>
04-001	MW-18	Water	GRAB	<u>9/11/23</u>	<u>12:15</u>	<u>7</u>	Indfill-app1-voc-group Indfill-app1-metals-6020	<u>03</u>
05-001	MW-19A	Water	GRAB	<u>9/11/23</u>	<u>11:21</u>	<u>7</u>	Indfill-app1-voc-group Indfill-app1-metals-6020	<u>04</u>
06-001	MW-24	Water	GRAB	<u>9/11/23</u>	<u>11:48</u>	<u>7</u>	Indfill-app1-voc-group Indfill-app1-metals-6020	<u>05</u>
07-001	MW-4	Water	GRAB	<u>9/11/23</u>	<u>10:15</u>	<u>7</u>	Indfill-app1-voc-group Indfill-app1-metals-6020	<u>06</u>

Relinquished By [Signature] Date/Time 9/13/23

Relinquished By Mahr Date/Time 9/13/23 9:55

Received By _____ Date/Time _____

Received for Lab By _____ Date/Time _____
 Original - Lab Copy Yellow - Sampler Copy

Remarks:

CHAIN OF CUSTODY RECORD



600 East 17th Street South
 Newton, IA 50208
 641-792-8451



1 G I 1 0 1 8

HLW Engineering
 PM: Sue Thompson

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 d: 8/21/2023 9:55:15AM
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SITE INFORMATION

Sampler:
 Project: Todd Whipple
 South Dallas Co. - New Regs

REPORT TO

Todd Whipple
 HLW Engineering
 PO Box 314
 Story City, IA 50248

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

SPECIAL INSTRUCTIONS

None

Turn Around Time

Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order 16I1018
 Temperature 3.6
 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
08-001	MW-5	Water	GRAB	<u>9/11/23</u>	<u>9:32</u>	<u>7</u>	Indfill-app1-voc-group	Indfill-app1-metals-6020	<u>07</u>
09-001	MW-10 <u>dry</u>	Water	GRAB	<u>9/11/23</u>	<u>—</u>	<u>0</u>	Indfill-app1-voc-group	Indfill-app1-metals-6020	<u>—</u>
10-001	MW-12	Water	GRAB	<u>9/11/23</u>	<u>8:58</u>	<u>7</u>	Indfill-app1-voc-group	Indfill-app1-metals-6020	<u>08</u>
11-001	MW-15R	Water	GRAB	<u>9/11/23</u>	<u>8:15</u>	<u>7</u>	Indfill-app1-voc-group	Indfill-app1-metals-6020	<u>09</u>
12-001	MW-20R	Water	GRAB	<u>9/11/23</u>	<u>8:35</u>	<u>7</u>	Indfill-app1-voc-group	Indfill-app1-metals-6020	<u>10</u>
13-001	MW-21	Water	GRAB	<u>9/11/23</u>	<u>9:14</u>	<u>7</u>	Indfill-app1-voc-group	Indfill-app1-metals-6020	<u>11</u>
14-001	MW-22 <u>dry</u>	Water	GRAB	<u>9/11/23</u>	<u>—</u>	<u>0</u>	Indfill-app1-voc-group	Indfill-app1-metals-6020	<u>—</u>

[Signature] 9/13/23
 Relinquished By Date/Time

[Signature] 9/13/23 9:53
 Relinquished By Date/Time

Received By Date/Time

Received for Lab By Date/Time
 Original - Lab Copy Yellow - Sampler Copy

Remarks:

CHAIN OF CUSTODY RECORD



600 East 17th Street South
 Newton, IA 50208
 641-792-8451



HLW Engineering
 PM: Sue Thompson

Page 3 of 3
 8/21/2023 9:55:15AM

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SITE INFORMATION

Sampler: TODD WHIPPLE
 Project: South Dallas Co. - New Regs

Appendix Sampling

SPECIAL INSTRUCTIONS

None

Turn Around Time

Standard RUSH, need by ___/___/___

REPORT TO

Todd Whipple
 HLW Engineering
 PO Box 314
 Story City, IA 50248

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

LAB USE ONLY

Work Order 1GI1018
 Temperature 3.6
 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	
15-001	MW-25	Water	GRAB	<u>9/11/23</u>	<u>9:45</u>	<u>4</u>	8260@vc as-t-6020	8260-base-analysis ba-t-6020	<u>12</u>
16-001	MW-26	Water	GRAB	<u>9/11/23</u>	<u>9:59</u>	<u>4</u>	8260@vc as-t-6020	8260-base-analysis ba-t-6020	<u>13</u>
17-001	Duplicate	Water	GRAB	<u>9/11/23</u>	<u>✓</u>	<u>1</u>	indfil-appl indfil-appl	indfil-appl-metals-6020	<u>14</u>

Todd Whipple 9/13/23

Maah 9/13/23 9:53

Relinquished By Date/Time

Relinquished By Date/Time

Remarks:

Received By Date/Time

Received for Lab By Date/Time

Original - Lab Copy Yellow - Sampler Copy

Appendix D

Summary of Field Turbidity Measurements

South Dallas County Sanitary Landfill

Field Turbidity Over Time

No-Purge Sampling

Well	4/24/17	10/9/17	3/21/18	6/11/18	9/7/18	4/2/19	6/5/19	9/18/19	3/25/20	8/18/20	9/15/20	12/2/20	3/8/21	9/28/21	12/3/21	3/8/22	8/30/22	3/7/23	9/11/23	Max	Min	Ave	Std Dev	
	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU					
2	1.94					0.61			4.8											4.80	0.61	2.45	2.14	
4	7.58	11.1	3.88		2.92	10.5		6.26	3.25		106		3.57	15.6	2.26	3.75	6.52	2.35	5.31	106.00	2.26	12.72	26.08	
5	31.4	28.1	13.0		5.83	30.5	127.5	8.48	13.23		23.6		24.7	52.7		9.78	164	305	70.94	305.00	5.83	60.58	81.66	
9	0.73	5.81	1.59	12.6	21.6	6.52		59.7	3.7		7.67		3.67	5.71		3.23	2.82	3.86	14.42	59.70	0.73	10.24	14.77	
12	35.8	3.8	39.6		11.2	37.6		88.1	98.96		37.4		115	52.8		243	12.9	346	41.43	346.00	3.80	83.11	97.39	
15R	87.6	7.03	38.7		4.55	81.3		6.54	45.99	38.7	13.5		168	35.4		50.9	5.74	94.7	4.3	168.00	4.30	46.02	47.74	
17	5.23	7.9	10.1		8.9	10.5		6.02	8.71		3.09		5.1	47.5		13	1.72	6.41	4.58	47.50	1.72	9.91	11.25	
18	1.63	1.69	2.37		4.99	1.14		3.07	2.86		4.81		3.1	4.21		5.98	3.66	11.7	89.88	89.88	1.14	10.08	23.12	
19A	2.13	10.1	0.61		3.71	2.7		1.91	1.17		2.65	1.11	1.88	3.86		2.87	2.47	1.98	2.5	10.10	0.61	2.78	2.21	
20R	724	15.3	23.5		4.11	121		2.66	7.22		1.16		69.5	2.6		14.5	3.51	5.58	3.89	724.00	1.16	71.32	190.86	
21	68.9	17.9	51.3		15.1	216		3.96	380.3		1.77		25.4	11.4		152	3.12	1000	2.43	1000.00	1.77	139.26	270.56	
22	2.09	6.61	1.55		3.4	6.76		2.34	1.76		2.95		3.5			4.87	21.5	5.88		21.50	1.55	5.27	5.43	
24	22	15.1	179		160	63.5		13.8	23.07	161.2	6.96		12.7	4.71		13.2	3.24	2.59	8.34	179.00	2.59	45.96	64.31	
25	10.1	42.2	8.52		2.93	4.15			14.2		3.15		22.1	5.51		8.79	2.45	7.9	4.46	42.20	2.45	10.50	10.97	
26	27.2	11.6	106		445	745		301	626.8		385		9.64	437		20.8	1000	350	67.51	1000.00	9.64	323.75	309.84	
Max	724.00	46.80	179.00	47.30	445.00	745.00	127.50	301.00	626.80	161.20	385.00	1.11	370.00	437.00	2.26	243.00	1000.00	1000.00	89.88					
Min	0.73	1.69	0.61	12.60	2.92	0.61	127.50	1.51	1.15	161.20	1.16	1.11	1.88	2.60	2.26	2.87	1.72	1.98	2.43					
Median	14.00	11.35	13.00	29.95	5.56	10.50	127.50	6.26	10.97	161.20	5.89	1.11	17.40	13.50	2.26	13.00	3.66	7.90	5.31					
Average	76.16	15.99	33.66	29.95	45.41	76.53	127.50	41.02	72.67	161.20	41.81	1.11	54.84	50.67	2.26	40.12	83.56	143.92	24.61					

Appendix E

Summary of Prediction Limit Exceedances 2020 - Present

Spring 2020		Fall 2020	
MW-4*	Benzene	MW-4*	1,1-dichloroethane
	Chloroethane		1,4-dichlorobenzene
	dichlorodifluoromethane		Benzene
	Vinyl Chloride		Chloroethane
			cis-1,2-dichloroethene
			Vinyl Chloride
MW-5*	Bis(2ethylhexyl)phthalate	MW-5*	Chloroethane
	Chloroethane		
MW-21*	Barium	MW-21*	None
	Chloroethane		
MW-22*	Benzene	MW-22*	Benzene
	Vinyl Chloride		Chloroethane
			Vinyl Chloride

* = Assessment Monitoring Well

Spring 2021		Fall 2021	
MW-4*	1,4-dichlorobenzene	MW-4*	1,1-dichloroethane
	Benzene		1,2-dichloropropane
	Chloroethane		1,4-dichlorobenzene
			Acetone
			Benzene
			Bis(2ethylhexyl)phthalate
			Chloroethane
			cis-1,2-dichloroethene
			Vinyl Chloride
MW-5*	Chloroethane	MW-5*	None
MW-21*	Chloroethane	MW-21*	None
MW-22*	Benzene	MW-22*	None
	Chloroethane		
	Vinyl Chloride		

* = Assessment Monitoring Well

Spring 2022		Fall 2022	
MW-4*	1,4-dichlorobenzene	MW-4*	1,4-dichlorobenzene
	Benzene		Benzene
	Chloroethane		Chloroethane
			cis-1,2-dichloroethene
			Vinyl Chloride
MW-5*	None	MW-5*	Arsenic
			Copper
			Chloroethane
MW-21*	Chloroethane	MW-21*	None
MW-22*	Benzene	MW-22*	None

* = Assessment Monitoring Well

Spring 2023		Fall 2023	
MW-4*	1,2-dichloropropane	MW-4*	1,2-dichloropropane
	1,4-dichlorobenzene		1,4-dichlorobenzene
	Benzene		Benzene
	Chloroethane		Chloroethane
			cis-1,2-dichloroethene
			Vinyl Chloride
			Chromium
			Nickel
MW-5*	Chloroethane	MW-5*	None
MW-21*	Chloroethane	MW-21*	None
	Barium		
MW-22*	Benzene	MW-22*	None
	Vinyl Chloride		

* = Assessment Monitoring Well

Appendix F

Summary of Assessment Monitoring Results

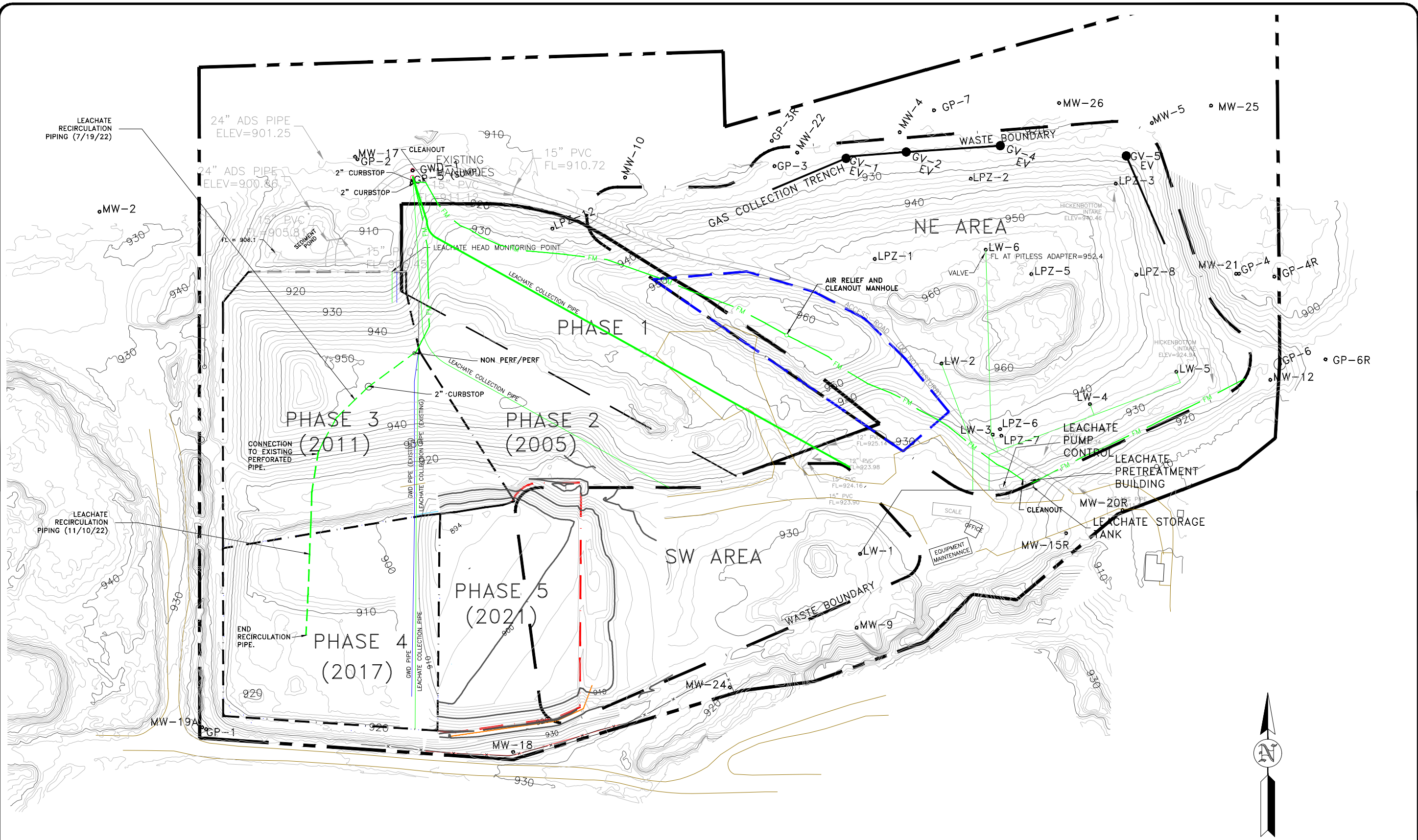
The full Appendix II sample events are highlighted in green.

Date	bis(2ethylhexyl)phthalate (ug/L)				
	MW-4	MW-5	MW-21	MW-22	
10/15/2014	<10	NT	NT	NT	
4/4/2015	NT	NT	NT	NT	
10/1/2015	NT	NT	NT	NT	
4/4/2016	NT	NT	<8	<8	
9/20/2016	10.0	10.0	NT	NT	
11/8/2016	<10	<10	NT	NT	
4/24/2017	NT	NT	NT	NT	
10/9/2017	NT	NT	NT	NT	
3/21/2018	NT	NT	NT	NT	
9/7/2018	NT	NT	NT	NT	
4/2/2019	NT	NT	NT	NT	
9/18/2019	NT	<6	NT	NT	
3/25/2020	NT	8.0	NT	NT	
9/15/2020	NT	NT	NT	NT	
3/8/2021	NT	<6	<15	<6	
9/28/2021	12.0	<6	NT	Dry	
3/8/2022	NT	<6	NT	NT	
8/30/2022	NT	NT	NT	NT	
3/7/2023	NT	NT	NT	NT	
9/11/2023	NT	NT	NT	NT	

Date	dichlorodifluoromethane (ug/L)				
	MW-4	MW-5	MW-21	MW-22	
10/15/2014	3.7	NT	NT	NT	
4/4/2015	1.1	NT	NT	NT	
10/1/2015	<1.0	NT	NT	NT	
4/4/2016	1.4	NT	1.0	<1.0	
9/20/2016	1.1	<1.0	NT	NT	
4/24/2017	1.3	NT	NT	NT	
10/9/2017	1.0	NT	NT	NT	
3/21/2018	<1.0	NT	NT	NT	
9/7/2018	<1.0	NT	NT	NT	
4/2/2019	2.6	NT	NT	NT	
9/18/2019	<1.0	<1.0	NT	NT	
3/25/2020	1.1	<1.0	NT	NT	
9/15/2020	<1.0	NT	NT	NT	
3/8/2021	<1.0	NT	<1.0	<1.0	
9/28/2021	<1.0	NT	NT	Dry	
3/8/2022	<1.0	NT	NT	NT	
8/30/2022	NT	NT	NT	NT	
3/7/2023	NT	NT	NT	NT	
9/11/2023	NT	NT	NT	NT	

Appendix G

Leachate Collection System Layout Map



- NOTES:
1. CONTOURS FROM DRONE SURVEY DATED JUNE 28, 2018.
 2. CONTOURS IN PHASE 5 FROM FIELD SURVEY DATED JUNE 14, 2021.

FIGURE: G		NO.	DATE
REVISION	DRAWN	PROJECT NO.	DATE
	JCH	6045-21A	2/09/23

OVERALL SITE PLAN
 LEACHATE COLLECTION SYSTEM
 SOUTH DALLAS COUNTY SANITARY LANDFILL
 ADEL, IOWA

HLW Engineering Group
 204 West Broad Street, P.O. Box 314
 Story City, Iowa 50248
 Phone: (515) 733-4144
 FAX: (515) 733-4146



Appendix H

Leachate Collection System Performance Evaluation Report

Appendix H.1- Volumes Pumped to Adel Wastewater Treatment Facility

**Leachate Pumped to Adel
South Dallas County Sanitary Landfill
2023**

Month	Gallons
January	9,614
February	10,703
March	12,775
April	3,876
May	1,000
June	5,314
July	406
August	941
September	2,952
October	9,310
November	6,832
December	3,119

TOTAL 66,842 Gallons

Appendix H.2-Leachate Treatment Agreement with City of Adel



November 1, 2022

MIKE LANSING – WASTEWATER SUPERINTENDENT
CITY OF ADEL
PO BOX 248
ADEL, IA 50003

RE: NPDES Final Permit #2503001

Dear Mr. Lansing:

Enclosed is the final NPDES permit that authorizes the discharge of wastewater from the City of Adel's wastewater treatment facility. This final permit is the same as the draft permit sent on September 12, 2022. The issuance date of this permit is December 1, 2022; please become familiar with all limits and requirements in the enclosed final permit.

The facility will be required to use new discharge monitoring report (DMR) forms once a final permit is issued. Electronic DMR forms are available from your regional Field Office. Please contact Janet Gastineau at 515-250-4291 for more information.

If you have any questions, please contact me at 515-452-6235 or at ryan.olive@dnr.iowa.gov.

Sincerely,

Ryan Olive
NPDES Section

Enclosures

IOWA DEPARTMENT OF NATURAL RESOURCES
National Pollutant Discharge Elimination System (NPDES) Permit

OWNER NAME & ADDRESS

CITY OF ADEL
PO BOX 248
ADEL, IA 50003-0248

FACILITY NAME & ADDRESS

ADEL CITY OF STP
600 SOUTH 4TH STREET
ADEL, IA 50003

Section 33, T79N, R27W
Dallas County

IOWA NPDES PERMIT NUMBER: 2503001
DATE OF ISSUANCE: 12/01/2022
DATE OF EXPIRATION: 11/30/2027

**YOU ARE REQUIRED TO FILE FOR RENEWAL
OF THIS PERMIT BY:** 06/03/2027
EPA NUMBER: IA0041921

This permit is issued pursuant to the authority of section 402(b) of the Clean Water Act (33 U.S.C. 1342(b)), Iowa Code section 455B.174, and rule 567-64.3, Iowa Administrative Code. You are authorized to operate the disposal system and to discharge the pollutants specified in this permit in accordance with the effluent limitations, monitoring requirements and other terms set forth in this permit.

Pursuant to rule 561-7.4, Iowa Administrative Code, you may appeal any condition of this permit by filing a written notice of appeal and request for administrative hearing with the director of the department within 60 days of permit issuance.

Any existing, unexpired Iowa operation permit or Iowa NPDES permit previously issued by the department for the facility identified above is revoked by the issuance of this permit. This provision does not apply to any authorization to discharge under the terms and conditions of a general permit issued by the department or to any permit issued exclusively for the discharge of stormwater.

FOR THE DEPARTMENT OF NATURAL RESOURCES

By _____

Ryan Olive
NPDES Section, Environmental Services Division

Facility Name: ADEL CITY OF STP

Permit Number: 2503001

Outfall No.: 001 DISCHARGE FROM A SEQUENCING BATCH REACTOR WASTEWATER TREATMENT FACILITY.

Receiving Stream: NORTH RACCOON RIVER

Route of Flow: NORTH RACCOON RIVER

Class A1 waters are primary contact recreational use waters in which recreational or other uses may result in prolonged and direct contact with the water, involving considerable risks of ingesting water in quantities sufficient to pose a health hazard. Such activities would include, but not be limited to, swimming, diving, water skiing, and water contact recreational canoeing.

Waters designated Class B(WW1) are those in which temperature, flow and other habitat characteristics are suitable to maintain warm water game fish populations along with a resident aquatic community that includes a variety of native nongame fish and invertebrates species. These waters generally include border rivers, large interior rivers, and the lower segments of medium-size tributary streams.

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.

Bypasses from any portion of a treatment facility or from a sanitary sewer collection system designed to carry only sewage are prohibited.

Facility Name: ADEL CITY OF STP

Permit Number: 2503001

Effluent Limitations:

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

001 DISCHARGE FROM A SEQUENCING BATCH REACTOR WASTEWATER TREATMENT FACILITY.

<i>Outfall: 001 Effective Dates: 12/01/2022 to 11/30/2027</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	1,134 LBS/DAY
	Yearly	30 Day Average	25 MG/L	709 LBS/DAY
TOTAL SUSPENDED SOLIDS			85% Removal Required	
	Yearly	7 Day Average	45 MG/L	1,276 LBS/DAY
	Yearly	30 Day Average	30 MG/L	851 LBS/DAY
AMMONIA NITROGEN (N)				
	JAN	30 Day Average	17.6 MG/L	354.8 LBS/DAY
	JAN	Daily Maximum	17.6 MG/L	470.3 LBS/DAY
	FEB	30 Day Average	16.9 MG/L	407.4 LBS/DAY
	FEB	Daily Maximum	16.9 MG/L	446.3 LBS/DAY
	MAR	30 Day Average	11.3 MG/L	210.3 LBS/DAY
	MAR	Daily Maximum	17.0 MG/L	454.9 LBS/DAY
	APR	30 Day Average	8.5 MG/L	157.2 LBS/DAY
	APR	Daily Maximum	17.7 MG/L	477.9 LBS/DAY
	MAY	30 Day Average	9.7 MG/L	179.6 LBS/DAY
	MAY	Daily Maximum	17.3 MG/L	465.9 LBS/DAY
	JUN	30 Day Average	7.3 MG/L	135.4 LBS/DAY

Facility Name: ADEL CITY OF STP

Permit Number: 2503001

<i>Outfall: 001 Effective Dates: 12/01/2022 to 11/30/2027</i>				
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limits</u>	
AMMONIA NITROGEN (N)				
	JUN	Daily Maximum	16.5 MG/L	443.7 LBS/DAY
	JUL	30 Day Average	5.6 MG/L	103.6 LBS/DAY
	JUL	Daily Maximum	19.9 MG/L	538.1 LBS/DAY
	AUG	30 Day Average	5.3 MG/L	98.3 LBS/DAY
	AUG	Daily Maximum	18.4 MG/L	497.1 LBS/DAY
	SEP	30 Day Average	5.9 MG/L	109.0 LBS/DAY
	SEP	Daily Maximum	18.5 MG/L	501.8 LBS/DAY
	OCT	30 Day Average	8.7 MG/L	161.3 LBS/DAY
	OCT	Daily Maximum	17.7 MG/L	478.0 LBS/DAY
	NOV	30 Day Average	13.1 MG/L	241.2 LBS/DAY
	NOV	Daily Maximum	16.5 MG/L	447.5 LBS/DAY
	DEC	30 Day Average	13.9 MG/L	256.6 LBS/DAY
	DEC	Daily Maximum	17.9 MG/L	485.8 LBS/DAY
NITROGEN, TOTAL KJELDAHL (AS N)				
	Yearly	30 Day Average	252 LBS/DAY	
	Yearly	Daily Maximum	413 LBS/DAY	

Facility Name: ADEL CITY OF STP

Permit Number: 2503001

Outfall: 001 Effective Dates: 12/01/2022 to 11/30/2027			
Parameter	Season	Limit Type	Limits
ACUTE TOXICITY, CERIODAPHNIA			
	Yearly	Daily Maximum	1 NO TOXICITY
ACUTE TOXICITY, PIMEPHALES			
	Yearly	Daily Maximum	1 NO TOXICITY
DISSOLVED OXYGEN			
	Yearly	Daily Minimum	1.2 MG/L
PH			
	Yearly	Daily Maximum	9.0 STD UNITS
	Yearly	Daily Minimum	6.3 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

Facility Name: ADEL CITY OF STP

Permit Number: 2503001

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: ADEL CITY OF STP

Permit Number: 2503001

Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
The following monitoring requirements shall be in effect from 12/01/2022 to 11/30/2027				
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	RAW WASTE - TOTAL
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	RAW WASTE - STORM WATER BASIN RETURN
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	RAW WASTE - STORM WATER BASIN INFLUENT
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	RAW WASTE - MECHANICAL PLANT INFLUENT
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	2 TIMES PER WEEK	24 HOUR COMPOSITE	RAW WASTE
001	NITROGEN, TOTAL (AS N)	1 TIME PER WEEK	24 HOUR COMPOSITE	RAW WASTE
001	NITROGEN, TOTAL KJELDAHL (AS N)	1 EVERY MONTH	24 HOUR COMPOSITE	RAW WASTE
001	PH	2 TIMES PER WEEK	GRAB	RAW WASTE
001	PHOSPHORUS, TOTAL (AS P)	1 TIME PER WEEK	24 HOUR COMPOSITE	RAW WASTE
001	TEMPERATURE	2 TIMES PER WEEK	GRAB	RAW WASTE
001	TOTAL SUSPENDED SOLIDS	1 TIME PER WEEK	24 HOUR COMPOSITE	RAW WASTE
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	FINAL EFFLUENT
001	ACUTE TOXICITY, CERIODAPHNIA	1 EVERY 12 MONTHS	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	ACUTE TOXICITY, PIMEPHALES	1 EVERY 12 MONTHS	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	AMMONIA NITROGEN (N)	2 TIMES PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	CBOD5	2 TIMES PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	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 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	NITROGEN, TOTAL KJELDAHL (AS N)	1 EVERY MONTH	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	PH	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
001	PHOSPHORUS, TOTAL (AS P)	1 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	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: ADEL CITY OF STP

Permit Number: 2503001

Special Monitoring Requirements

Outfall # Description

001 FLOW

To calculate the total raw waste flow (TOTAL RAW WASTE FLOW = MECHANICAL PLANT INFLUENT+ INFLUENT TO STORM WATER RETENTION BASIN- STORM WATER BASIN RETURN)

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 = (Sample one * Sample two * Sample three * Sample four * Sample five...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.

Facility Name: ADEL CITY OF STP

Permit Number: 2503001

E. COLI (Continued)

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:

<https://www.iowadnr.gov/Environmental-Protection/Water-Quality/NPDES-Wastewater-Permitting/NPDES-Operator-Information/Bacteria-Sampling>

Facility Name: ADEL CITY OF STP

Permit Number: 2503001

ADDITIONAL OPERATING, MONITORING AND REPORTING REQUIREMENTS

1. In addition to the monitoring requirements specified elsewhere in this permit, by **December 1, 2023** you shall sample, analyze and submit the results of at least one analysis representative of the actual discharge for oil and grease, chloride, sulfate and nitrate + nitrite nitrogen from outfall 001 (SBR treatment facility). The samples you collect and analyze must be of the final effluent collected on a day when the plant is operating normally. The results of these analyses will be evaluated and the department will reopen this permit if it is determined that there is a reasonable potential for the discharge to cause or contribute to a violation of a water quality standard for any parameter. The lab report with the analysis results must be mailed to the address shown below within two months of permit issuance.
2. In addition to the monitoring requirements specified elsewhere in this permit, by **December 1, 2023** you shall sample, analyze and submit the results for one scan of Part B of the NPDES permit application from outfall 001 (SBR treatment facility). The samples you collect and analyze must be of the final effluent collected on a day when the plant is operating normally. The results of these analyses will be evaluated and the department will reopen this permit if it is determined that there is a reasonable potential for the discharge to cause or contribute to a violation of a water quality standard for any parameter. The lab report with the analysis results must be mailed to the address shown below within two months of permit issuance.

npdes.mail@dnr.iowa.gov

Subject: Effluent Test Results (2503001)
Part B Test Results (2503001)

Facility Name: ADEL CITY OF STP

Permit Number: 2503001

Significant Industrial User Discharges:

Significant Industrial User: SOUTH DALLAS COUNTY LANDFILL AGENCY

Outfall # Outfall Description

001 LANDFILL LEACHATE IS PIPED TO THE WASTEWATER TREATMENT PLANT FOR DISPOSAL.

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

<i>SOUTH DALLAS COUNTY LANDFILL AGENCY</i>			
<i>Outfall: 001 Effective Dates: 12/01/2022 to 11/30/2027</i>			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
FLOW			
	Yearly	30 Day Average	0.020 MGD
	Yearly	DAILY MAXIMUM	0.026 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	139.0 LBS/DAY
	Yearly	DAILY MAXIMUM	216.7 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	41.7 LBS/DAY
	Yearly	DAILY MAXIMUM	75.8 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	20.0 LBS/DAY
	Yearly	DAILY MAXIMUM	86.7 LBS/DAY
PH			
	Yearly	DAILY MAXIMUM	7.8 STD UNITS
	Yearly	DAILY MINIMUM	6.5 STD UNITS

Facility Name: ADEL CITY OF STP

Permit Number: 2503001

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: ADEL CITY OF STP

Permit Number: 2503001

SOUTH DALLAS COUNTY LANDFILL AGENCY				
Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
001	AMMONIA NITROGEN (N)	1 EVERY MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1 EVERY MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	1 EVERY MONTH	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1 EVERY MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SANITARY LANDFILL LEACHATE	1 EVERY 12 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1 EVERY MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

Facility Name: ADEL CITY OF STP

Permit Number: 2503001

ADDITIONAL MONITORING REQUIREMENTS

SOUTH DALLAS COUNTY LANDFILL AGENCY

The permittee shall analyze a representative sample of the landfill leachate discharge from South Dallas County Landfill Agency at least annually for each of the pollutants listed below. In addition, the permittee shall monitor the volume of waste discharged and BOD5, TSS, Ammonia Nitrogen at the frequencies specified on page 12 of this permit.

Pollutant

Biochemical Oxygen Demand (BOD5)

Total Suspended Solids

Ammonia Nitrogen (NH3-N)

Oil and Grease (O&G)

pH

Chloride (as Cl)

Sulfate (as SO4)

Arsenic, Total (as As)

Chromium, Total (as Cr)

Copper, Total (as Cu)

Iron, Total (as Fe)

Lead, Total (as Pb)

Nickel, Total (as Ni)

Selenium, Total (as Se)

Zinc, Total (as Zn)

Benzoic Acid

Chlorobenzene

Ethylbenzene

p-Cresol

Phenol

Toluene

The permittee will indicate completion of the annual leachate monitoring by entering a “1” in the “LEACHAT” column on the Discharge Monitoring Report (DMR) spreadsheet on the day that the samples are collected. Select the No Discharge Indicator “NOT REQUIRED/MP” on the DMR spreadsheet during the months that the monitoring is not required.

Results of annual monitoring shall be submitted to the addresses below:

NPDES.mail@dnr.iowa.gov

Subject: Landfill Leachate Scan (2503001)

Iowa DNR Field Office 5

502 E. 9th St

Des Moines, IA 50319-0034

Facility Name: ADEL CITY OF STP

Permit Number: 2503001

Outfall Number: 001

Ceriodaphnia and Pimephales Toxicity Effluent Testing

1. For facilities that have not been required to conduct toxicity testing by a previous NPDES permit, the initial annual toxicity test shall be conducted within three (3) months of permit issuance. For facilities that have been required to conduct toxicity testing by a previous NPDES permit, the initial annual toxicity test shall be conducted within twelve months (12) of the last toxicity test.
2. The test organisms that 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 76.90 % effluent and no more than 23.10 % 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: ADEL CITY OF STP

Permit Number: 2503001

Design Capacity

Design: 2

The design capacity for the treatment works is specified in Construction Permit Number 2020-0362-S, issued April 24, 2020. The treatment plant is designed to treat:

- * An average dry weather (ADW) flow of 0.980 Million Gallons Per Day (MGD).
- * An average wet weather (AWW) flow of 3.400 Million Gallons Per Day (MGD).
- * A maximum wet weather (MWW) flow of 5.440 Million Gallons Per Day (MGD).
- * A design 5-day biochemical oxygen demand (BOD5) load of 1,935 lbs/day.
- * A design Total Kjeldahl Nitrogen (TKN) load of 460 lbs/day.
- * A design Total Suspended Solids (TSS) load of 6,015 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: ADEL CITY OF STP

Permit Number: 2503001

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: ADEL CITY OF STP

Permit Number: 2503001

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.

Facility Name: ADEL CITY OF STP

Permit Number: 2503001

Nutrient Reduction Strategy Construction Schedule

Total Nitrogen and Total Phosphorus – Outfall 001

The City of Adel shall implement the strategy for reducing total nitrogen and total phosphorus in the final effluent. Construction of improvements shall be implemented according to the following schedule:

- Complete construction of improvements by **January 1, 2023**.
- Complete 1 year of treatment plant optimization for nutrient reduction by **January 1, 2024**.
- Submit one year of at least weekly total nitrogen and total phosphorus sampling data from the raw waste and final effluent by **February 1, 2025**. The report must include the results of all monitoring for total nitrogen and total phosphorus in the raw waste and final effluent between January 1, 2024 and December 31, 2024.

Progress reports shall be submitted by the required due dates. Within fourteen (14) days following all dates of construction completion, optimization completion, and one year of monitoring, the permittee shall provide written notice of compliance with the scheduled event along with any applicable data. All written notices and progress reports shall be sent to the following addresses:

npdes.mail@dnr.iowa.gov

Subject: NRS Report (2503001)

Iowa Department of Natural Resources
Environmental Services Division
Regional Office #5
502 East 9th Street
Des Moines, IA 50319

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 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.3 – Leachate Testing Results

ANALYTICAL REPORT

January 17, 2023

Work Order: **1GA0190**

Page 1 of 5

Report To
Mike Fountas South Dallas County Landfill 2000 Main Street, PO Box 263 Adel, IA 50003

Work Order Information
Date Received: 1/4/2023 1:27:00PM Collector: Fountas, Mike Phone: (515) 993-3148 PO Number:

Project: Monthly Sampling

Project Number: [none]

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GA0190-01				Matrix: Water		Collected: 01/04/23 13:00	
BOD (5 day)	58 mg/L	4	1GA0100	SM 5210 B	AJE	01/05/23 9:55	
Nitrogen, Ammonia	46.6 mg/L	1.00	1GA0798	TIMBERLINE	TJB	01/17/23 12:54	
pH	6.9 pH	0.5	1GA0215	EPA 150.1	BSS	01/06/23 14:32	I-03
Solids, total suspended	61 mg/L	7	1GA0383	USGS I-3765-85	MEAH	01/11/23 10:25	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

January 17, 2023
Page 2 of 5

Work Order: 1GA0190

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1GA0100 - General Prep Micro

Blank (1GA0100-BLK1)		Prepared: 01/04/23 Analyzed: 01/05/23								
BOD (5 day)	ND	4	mg/L							
Duplicate (1GA0100-DUP1)		Source: 1GA0140-04 Prepared: 01/04/23 Analyzed: 01/05/23								
BOD (5 day)	191	4	mg/L		217			12.7	29	
Reference (1GA0100-SRM1)		Prepared: 01/04/23 Analyzed: 01/05/23								
BOD (5 day)	197	4	mg/L	198.000		99.5	84.6-115.4			

Batch 1GA0215 - Wet Chem Preparation

Duplicate (1GA0215-DUP1)		Source: 1GA0299-02 Prepared & Analyzed: 01/06/23								
pH	7.7	0.5	pH		7.7			0.104	10	
Reference (1GA0215-SRM1)		Prepared & Analyzed: 01/06/23								
pH	7.0	0.5	pH	7.00000		100	90-110			
Reference (1GA0215-SRM2)		Prepared & Analyzed: 01/06/23								
pH	7.0	0.5	pH	7.00000		100	90-110			

Batch 1GA0383 - Wet Chem Preparation

Blank (1GA0383-BLK1)		Prepared: 01/09/23 Analyzed: 01/11/23								
Solids, total suspended	ND	1	mg/L							
LCS (1GA0383-BS1)		Prepared: 01/09/23 Analyzed: 01/11/23								
Solids, total suspended	15.7	1	mg/L	15.0000		105	74-114			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL = Method Reporting Limit.

South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

January 17, 2023
Page 3 of 5

Work Order: 1GA0190

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1GA0383 - Wet Chem Preparation

Duplicate (1GA0383-DUP1)	Source: 1GA0189-01	Prepared: 01/09/23	Analyzed: 01/11/23			
Solids, total suspended	21.6	4	mg/L	17.6	20.4	30

Batch 1GA0798 - Wet Chem Preparation

Blank (1GA0798-BLK1)	Prepared & Analyzed: 01/17/23		
Nitrogen, Ammonia	ND	0.10	mg/L

LCS (1GA0798-BS1)	Prepared & Analyzed: 01/17/23					
Nitrogen, Ammonia	5.07	0.10	mg/L	5.00000	101	90-114

Matrix Spike (1GA0798-MS1)	Source: 1GA0189-02	Prepared & Analyzed: 01/17/23					
Nitrogen, Ammonia	8.98	0.10	mg/L	5.00000	4.23	94.9	84-115

Matrix Spike Dup (1GA0798-MSD1)	Source: 1GA0189-02	Prepared & Analyzed: 01/17/23							
Nitrogen, Ammonia	8.95	0.10	mg/L	5.00000	4.23	94.4	84-115	0.307	20

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

Certified Analyses Included In This Report

Method/Matrix	Analyte	Certifications
SM 5210 B in Water	BOD (5 day)	SIA1X,KS-NT
TIMBERLINE in Water	Nitrogen, Ammonia	SIA1X,KS-NT
USGS I-3765-85 in Water	Solids, total suspended	SIA1X,KS-NT

Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2023
KS-NT	Kansas Department of Health and Environment (NELAP)	E-10287	10/31/2023
MO-KC	Missouri Department of Natural Resources	140	04/30/2023
SIA1X	Iowa Dept. of Natural Resources	95	02/01/2024

Notes and Definitions

I-03 Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

January 17, 2023
Page 4 of 5

Work Order: 1GA0190

End of Report

A handwritten signature in black ink that reads "Sue Thompson".

Keystone Laboratories

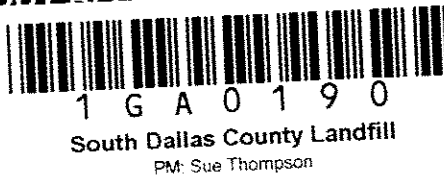
Sue Thompson
Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

CHAIN OF CUSTODY RECORD



600 East 17th Street South
 Newton, IA 50208
 641-792-8451



Page 1 of 1
 Printed: 10/6/2022 9:52:19AM

www.keystonelabs.co

SITE INFORMATION
 Sampler: Mike Fountas
 Project: Monthly Sampling

REPORT TO
 Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

INVOICE TO
 Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

SPECIAL INSTRUCTIONS
 None
 Turn Around Time
 Standard RUSH, need by ___/___/___

LAB USE ONLY
 Work Order 1GA0190
 Temperature 00
 Turn-Cooler: Yes

- Custody Seal
- Containers Intact
- COC/Labels Agree
- Preservation Confirmed
- Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
01-001		Water	GRAB	<u>1/4/23</u>	<u>1:00 PM</u>	<u>2</u>	hod-5210 ph-150.1 nh3-timberline iss-i-3765-85	<u>01</u>

Mike Fountas 1/4/23 1:00pm
 Relinquished By Date/Time

Relinquished By Date/Time

Received By Date/Time

Jodi Mahan 1-4-23 1:27
 Received for Lab By Date/Time

Original - Lab Copy Yellow - Sampler Copy

Remarks:

ANALYTICAL REPORT

February 13, 2023

Work Order: 1GB0104

Page 1 of 5

Report To
Mike Fountas South Dallas County Landfill 2000 Main Street, PO Box 263 Adel, IA 50003

Work Order Information
Date Received: 2/1/2023 12:30:00PM Collector: Unknown Phone: (515) 993-3148 PO Number:

Project: Monthly Sampling

Project Number: [none]

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GB0104-01	South Dallas County Landfill			Matrix: Water		Collected: 02/01/23 08:20	
BOD (5 day)	26 mg/L	4	1GB0036	SM 5210 B	IDD	02/02/23 10:25	
Nitrogen, Ammonia	47.6 mg/L	1.00	1GB0390	TIMBERLINE	TJB	02/09/23 11:39	
pH	6.9 pH	0.5	1GB0075	EPA 150.1	BSS	02/02/23 13:57	I-03
Solids, total suspended	23 mg/L	2	1GB0313	USGS I-3765-85	MEAH	02/08/23 11:20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

February 13, 2023
Page 2 of 5

Work Order: 1GB0104

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1GB0036 - General Prep Micro

Blank (1GB0036-BLK1)		Prepared: 02/01/23 Analyzed: 02/02/23								
BOD (5 day)	ND	4	mg/L							B-06
Duplicate (1GB0036-DUP1)		Source: 1GB0105-02 Prepared: 02/01/23 Analyzed: 02/02/23								
BOD (5 day)	186	4	mg/L		181			2.72	29	
Reference (1GB0036-SRM1)		Prepared: 02/01/23 Analyzed: 02/02/23								
BOD (5 day)	218	4	mg/L	198.000		110	84.6-115.4			

Batch 1GB0075 - Wet Chem Preparation

Duplicate (1GB0075-DUP1)		Source: 1GB0104-01 Prepared & Analyzed: 02/02/23								
pH	6.9	0.5	pH		6.9			0.0145	10	
Reference (1GB0075-SRM1)		Prepared & Analyzed: 02/02/23								
pH	7.0	0.5	pH	7.00000		100	90-110			
Reference (1GB0075-SRM2)		Prepared & Analyzed: 02/02/23								
pH	7.0	0.5	pH	7.00000		99.9	90-110			

Batch 1GB0313 - Wet Chem Preparation

Blank (1GB0313-BLK1)		Prepared & Analyzed: 02/08/23								
Solids, total suspended	ND	1	mg/L							
LCS (1GB0313-BS1)		Prepared & Analyzed: 02/08/23								
Solids, total suspended	13.6	1	mg/L	15.0000		90.7	74-114			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL = Method Reporting Limit.

South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

February 13, 2023
Page 3 of 5

Work Order: 1GB0104

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1GB0313 - Wet Chem Preparation

Duplicate (1GB0313-DUP1)	Source: 1GB0088-01	Prepared & Analyzed: 02/08/23
Solids, total suspended	72.8 4 mg/L	72.4 0.551 30

Batch 1GB0390 - General Prep HPLC/IC

Blank (1GB0390-BLK1)	Prepared & Analyzed: 02/09/23
Nitrogen, Ammonia	ND 0.10 mg/L

LCS (1GB0390-BS1)	Prepared & Analyzed: 02/09/23
Nitrogen, Ammonia	4.95 0.10 mg/L 5.00000 99.0 90-114

Matrix Spike (1GB0390-MS1)	Source: 1GB0037-02	Prepared & Analyzed: 02/09/23
Nitrogen, Ammonia	5.20 0.10 mg/L	5.00000 0.226 99.6 84-115

Matrix Spike Dup (1GB0390-MSD1)	Source: 1GB0037-02	Prepared & Analyzed: 02/09/23
Nitrogen, Ammonia	5.37 0.10 mg/L	5.00000 0.226 103 84-115 3.13 20

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

Certified Analyses Included In This Report

Method/Matrix	Analyte	Certifications
SM 5210 B in Water	BOD (5 day)	SIA1X,KS-NT
TIMBERLINE in Water	Nitrogen, Ammonia	SIA1X,KS-NT
USGS I-3765-85 in Water	Solids, total suspended	SIA1X,KS-NT

Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2023
KS-NT	Kansas Department of Health and Environment (NELAP)	E-10287	10/31/2023
MO-KC	Missouri Department of Natural Resources	140	04/30/2023
SIA1X	Iowa Dept. of Natural Resources	95	02/01/2024

Notes and Definitions

- B-06 Unseeded Blank equals .5mg/L
- I-03 Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

February 13, 2023
Page 4 of 5

Work Order: 1GB0104

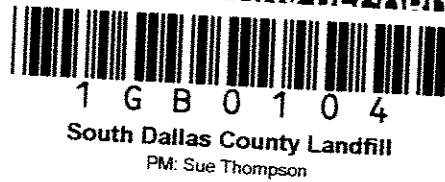
End of Report

Sue Thompson

Keystone Laboratories

Sue Thompson
Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.



SITE INFORMATION

Sampler:
Project: Monthly Sampling

SPECIAL INSTRUCTIONS

None

Turn Around Time

Standard RUSH, need by / /

REPORT TO

Mike Fountas
South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

INVOICE TO

Mike Fountas
South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

LAB USE ONLY

Work Order 1GB0104
Temperature 0.1
Turn-Cooler: Yes

- Custody Seal
- Containers Intact
- COC/Labels Agree
- Preservation Confirmed
- Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses		Lab Sample Number
01-001	South Dallas County Landfill	Water	GRAB	2/1/23	8:20	2	had-5210 ph-150.1	nh3-rimberline tss-i-3765-85	01

Relinquished By Mike Fountas Date/Time 2-1-23 8:23am

Relinquished By _____ Date/Time _____

Received By _____ Date/Time _____

Received for Lab By Mahr Date/Time 2-1-23 12:30

Original - Lab Copy Yellow - Sampler Copy

Remarks: 30

ANALYTICAL REPORT

March 09, 2023

Work Order: 1GC0142

Page 1 of 5

Report To
Mike Fountas South Dallas County Landfill 2000 Main Street, PO Box 263 Adel, IA 50003

Work Order Information
Date Received: 3/1/2023 1:08:00PM Collector: unknown Phone: (515) 993-3148 PO Number:

Project: Monthly Sampling

Project Number: [none]

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GC0142-01	South Dallas County Landfill			Matrix: Water		Collected: 03/01/23 09:00	
BOD (5 day)	64 mg/L	4	1GC0075	SM 5210 B	LAE	03/02/23 10:45	
Nitrogen, Ammonia	41.6 mg/L	1.00	1GC0374	TIMBERLINE	TJB	03/08/23 10:18	
pH	7.0 pH	0.5	1GC0152	EPA 150.1	BSS	03/02/23 16:49	I-03
Solids, total suspended	29 mg/L	3	1GC0360	USGS I-3765-85	MEAH	03/08/23 12:30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

March 09, 2023
Page 2 of 5

Work Order: 1GC0142

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1GC0075 - General Prep Micro

Blank (1GC0075-BLK1)		Prepared: 03/01/23 Analyzed: 03/02/23								
BOD (5 day)	ND	4	mg/L							B-06
Duplicate (1GC0075-DUP1)		Source: 1GC0147-01 Prepared: 03/01/23 Analyzed: 03/02/23								
BOD (5 day)	16.0	4	mg/L		15.0			6.45	29	B-19
Reference (1GC0075-SRM1)		Prepared: 03/01/23 Analyzed: 03/02/23								
BOD (5 day)	238	4	mg/L	198.000		120	84.6-115.4			QR-06

Batch 1GC0152 - Wet Chem Preparation

Duplicate (1GC0152-DUP1)		Source: 1GC0103-01 Prepared & Analyzed: 03/02/23								
pH	7.5	0.5	pH		7.5			0.0534	10	
Duplicate (1GC0152-DUP2)		Source: 1GC0215-01 Prepared & Analyzed: 03/02/23								
pH	8.6	0.5	pH		8.6			0.0351	10	
Reference (1GC0152-SRM1)		Prepared & Analyzed: 03/02/23								
pH	7.0	0.5	pH	7.00000		99.8	90-110			
Reference (1GC0152-SRM2)		Prepared & Analyzed: 03/02/23								
pH	7.0	0.5	pH	7.00000		99.8	90-110			
Reference (1GC0152-SRM3)		Prepared & Analyzed: 03/02/23								
pH	6.9	0.5	pH	7.00000		98.4	90-110			
Reference (1GC0152-SRM4)		Prepared & Analyzed: 03/02/23								
pH	12.5	0.5	pH	12.4500		100	90-110			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL = Method Reporting Limit.

South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

March 09, 2023
Page 3 of 5

Work Order: 1GC0142

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1GC0360 - Wet Chem Preparation

Blank (1GC0360-BLK1)		Prepared: 03/07/23 Analyzed: 03/08/23								
Solids, total suspended	ND	1	mg/L							
LCS (1GC0360-BS1)		Prepared: 03/07/23 Analyzed: 03/08/23								
Solids, total suspended	14.5	1	mg/L	15.0000		96.7	74-114			
Duplicate (1GC0360-DUP1)		Source: 1GC0147-01		Prepared: 03/07/23 Analyzed: 03/08/23						
Solids, total suspended	13.2	2	mg/L		13.4			1.50	30	

Batch 1GC0374 - General Prep HPLC/IC

Blank (1GC0374-BLK1)		Prepared & Analyzed: 03/08/23								
Nitrogen, Ammonia	ND	0.10	mg/L							
LCS (1GC0374-BS1)		Prepared & Analyzed: 03/08/23								
Nitrogen, Ammonia	5.11	0.10	mg/L	5.00000		102	90-114			
Matrix Spike (1GC0374-MS1)		Source: 1GC0127-02		Prepared & Analyzed: 03/08/23						
Nitrogen, Ammonia	5.75	0.10	mg/L	5.00000	0.318	109	84-115			
Matrix Spike Dup (1GC0374-MSD1)		Source: 1GC0127-02		Prepared & Analyzed: 03/08/23						
Nitrogen, Ammonia	5.69	0.10	mg/L	5.00000	0.318	108	84-115	0.930	20	

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

Certified Analyses Included in This Report

Method/Matrix	Analyte	Certifications
SM 5210 B in Water	BOD (5 day)	SIA1X,KS-NT
TIMBERLINE in Water	Nitrogen, Ammonia	SIA1X,KS-NT
USGS I-3765-85 in Water	Solids, total suspended	SIA1X,KS-NT

Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2023
KS-NT	Kansas Department of Health and Environment (NELAP)	E-10287	10/31/2023
MO-KC	Missouri Department of Natural Resources	140	04/30/2023
SIA1X	Iowa Dept. of Natural Resources	95	02/01/2024

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

March 09, 2023
Page 4 of 5

Work Order: 1GC0142

Notes and Definitions

- B-06 Unseeded Blank equals .4mg/L
B-19 The net oxygen depletion was less than the required 2mg/L this result should be considered an estimated value.
I-03 Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
QR-06 The reference standard was outside of established control limits.

End of Report

Sue Thompson

Keystone Laboratories

Sue Thompson
Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

CHAIN OF CUSTODY RECORD



600 East 17th Street
 Newton, IA 50208
 641-792-8451



South Dallas County Landfill
 PM: Sue Thompson

SITE INFORMATION

Sampler:
 Project: **Monthly Sampling**

REPORT

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

INVOICE TO

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

SPECIAL INSTRUCTIONS

None

Turn Around Time

Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order 1GCO142
 Temperature 03
 Turn-Cooler: **Yes**

- Custody Seal
- Containers Intact
- COC/Labels Agree
- Preservation Confirmed
- Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses		Lab Sample Number
01-001	South Dallas County Landfill	Water	GRAB	3/1/23	9:00 AM	2	hod-5210 pb-150.1	nh3-timberline tss-i-3765-85	OL

Relinquished By _____ Date/Time _____

Mike Fountas 3-1-23 9 AM
 Relinquished By _____ Date/Time _____

Received By _____ Date/Time _____

Maher 3-1-23 1:08
 Received for Lab By _____ Date/Time _____

Original - Lab Copy Yellow - Sampler Copy

Remarks:

ANALYTICAL REPORT

April 14, 2023

Work Order: 1GD0397

Page 1 of 5

Report To
Mike Fountas South Dallas County Landfill 2000 Main Street, PO Box 263 Adel, IA 50003

Work Order Information
Date Received: 4/5/2023 1:08:00PM Collector: Unknown Phone: (515) 993-3148 PO Number:

Project: Monthly Sampling

Project Number: [none]

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0397-01	South Dallas			Matrix: Water		Collected: 04/05/23 08:00	
BOD (5 day)	111 mg/L	4	1GD0207	SM 5210 B	IDD	04/06/23 10:10	
Nitrogen, Ammonia	53.8 mg/L	1.00	1GD0693	TIMBERLINE	TJB	04/14/23 11:15	
pH	6.9 pH	0.5	1GD0324	EPA 150.1	BSS	04/06/23 17:03	I-03
Solids, total suspended	26 mg/L	3	1GD0403	USGS I-3765-85	MEAH	04/11/23 16:20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

April 14, 2023
Page 2 of 5

Work Order: 1GD0397

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GD0207 - General Prep Micro

Blank (1GD0207-BLK1)		Prepared & Analyzed: 04/06/23								
BOD (5 day)	ND	4	mg/L							
Duplicate (1GD0207-DUP1)		Source: 1GD0333-04		Prepared & Analyzed: 04/06/23						
BOD (5 day)	168	4	mg/L		179			6.34	29	
Reference (1GD0207-SRM1)		Prepared & Analyzed: 04/06/23								
BOD (5 day)	222	4	mg/L	198.000		112	84.6-115.4			

Batch 1GD0324 - Wet Chem Preparation

Duplicate (1GD0324-DUP1)		Source: 1GD0397-01		Prepared & Analyzed: 04/06/23						
pH	6.9	0.5	pH		6.9			0.0289	10	
Duplicate (1GD0324-DUP2)		Source: 1GD0559-01		Prepared & Analyzed: 04/06/23						
pH	7.7	0.5	pH		7.7			0.0647	10	
Reference (1GD0324-SRM1)		Prepared & Analyzed: 04/06/23								
pH	7.0	0.5	pH	7.00000		99.6	90-110			
Reference (1GD0324-SRM2)		Prepared & Analyzed: 04/06/23								
pH	7.0	0.5	pH	7.00000		99.4	90-110			
Reference (1GD0324-SRM3)		Prepared & Analyzed: 04/06/23								
pH	7.0	0.5	pH	7.00000		99.4	90-110			

Batch 1GD0403 - Wet Chem Preparation

Blank (1GD0403-BLK1)		Prepared: 04/10/23 Analyzed: 04/11/23								
Solids, total suspended	ND	1	mg/L							

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South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

April 14, 2023
Page 3 of 5

Work Order: 1GD0397

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GD0403 - Wet Chem Preparation

LCS (1GD0403-BS1)				Prepared: 04/10/23 Analyzed: 04/11/23						
Solids, total suspended	14.3	1	mg/L	15.0000		95.3	74-114			
Duplicate (1GD0403-DUP1)		Source: 1GD0351-01		Prepared: 04/10/23 Analyzed: 04/11/23						
Solids, total suspended	783	10	mg/L		781			0.256	30	

Batch 1GD0693 - General Prep HPLC/IC

Blank (1GD0693-BLK1)				Prepared: 04/13/23 Analyzed: 04/14/23						
Nitrogen, Ammonia	ND	0.10	mg/L							
LCS (1GD0693-BS1)				Prepared: 04/13/23 Analyzed: 04/14/23						
Nitrogen, Ammonia	5.02	0.10	mg/L	5.00000		100	90-114			
Matrix Spike (1GD0693-MS1)		Source: 1GD0367-09		Prepared: 04/13/23 Analyzed: 04/14/23						
Nitrogen, Ammonia	5.98	0.10	mg/L	5.00000	0.666	106	84-115			
Matrix Spike Dup (1GD0693-MSD1)		Source: 1GD0367-09		Prepared: 04/13/23 Analyzed: 04/14/23						
Nitrogen, Ammonia	5.97	0.10	mg/L	5.00000	0.666	106	84-115	0.160	20	

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

Certified Analyses Included In This Report

Method/Matrix	Analyte	Certifications
SM 4500 H+ B in Water	pH	KS-NT,SIA1X
SM 5210 B in Water	BOD (5 day)	SIA1X,KS-NT
TIMBERLINE in Water	Nitrogen, Ammonia	SIA1X,KS-NT
USGS I-3765-85 in Water	Solids, total suspended	SIA1X,KS-NT

Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2023
KS-NT	Kansas Department of Health and Environment (NELAP)	E-10287	10/31/2023
MO-KC	Missouri Department of Natural Resources	140	04/30/2023
SIA1X	Iowa Dept. of Natural Resources	95	02/01/2024

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South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

April 14, 2023
Page 4 of 5

Work Order: 1GD0397

Notes and Definitions

I-03 Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.

End of Report

Sue Thompson

Keystone Laboratories

Sue Thompson

Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.



600 East 17th Street South
Newton, IA 50208
641-792-8451



1 G D 0 3 9 7
South Dallas County Landfill
PM: Sue Thompson

SITE INFORMATION

Sampler: South Dallas County Landfill

Project: Monthly Sampling

SPECIAL INSTRUCTIONS

None

Turn Around Time

Standard RUSH, need by ___/___/___

REPORT TO

Mike Fountas
South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

INVOICE TO

Mike Fountas
South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

LAB USE ONLY

Work Order IGD 0397

Temperature 43

Turn-Cooler: Yes

- Custody Seal
- Containers Intact
- COC/Labels Agree
- Preservation Confirmed
- Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
01-001	<u>South Dallas</u>	Water	GRAB	<u>4/5/23</u>	<u>8:00 am</u>	<u>2</u>	hnd-5210 ph-150.1 nh3-timherline tss-i-3765-85	<u>01</u>

[Signature] 4-5-23
Relinquished By Date/Time

Relinquished By Date/Time

Mahe 4/5/23 1:08
Received for Lab By Date/Time

Received By Date/Time

Remarks:

ANALYTICAL REPORT

May 12, 2023

Work Order: 1GE0381

Page 1 of 6

Report To
Mike Fountas South Dallas County Landfill 2000 Main Street, PO Box 263 Adel, IA 50003

Work Order Information
Date Received: 5/3/2023 12:35:00PM
Collector:
Phone: (515) 993-3148
PO Number:

Project: Monthly Sampling

Project Number: [none]

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GE0381-01	South Dallas County			Matrix: Water		Collected: 05/03/23 07:00	
BOD (5 day)	134 mg/L	4	1GE0244	SM 5210 B	LAE	05/04/23 10:00	
Nitrogen, Ammonia	55.2 mg/L	1.00	1GE0609	TIMBERLINE	TJB	05/10/23 12:26	
pH	6.9 pH	0.5	1GE0445	EPA 150.1	BSS	05/08/23 16:40	I-03
Solids, total suspended	48 mg/L	5	1GE0593	USGS I-3765-85	MEAH	05/10/23 10:18	

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South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

May 12, 2023
Page 2 of 6

Work Order: 1GE0381

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GE0244 - General Prep Micro

Blank (1GE0244-BLK1)		Prepared: 05/03/23 Analyzed: 05/04/23								
BOD (5 day)	ND	4	mg/L							
Duplicate (1GE0244-DUP1)		Source: 1GE0389-01 Prepared: 05/03/23 Analyzed: 05/04/23								
BOD (5 day)	78.0	4	mg/L		80.0			2.53	29	
Reference (1GE0244-SRM1)		Prepared: 05/03/23 Analyzed: 05/04/23								
BOD (5 day)	213	4	mg/L	198.000		108	84.6-115.4			
Reference (1GE0244-SRM2)		Prepared: 05/03/23 Analyzed: 05/04/23								
BOD (5 day)	239	4	mg/L	198.000		121	84.6-115.4			QR-06

Batch 1GE0445 - Wet Chem Preparation

Duplicate (1GE0445-DUP1)		Source: 1GE0513-01 Prepared & Analyzed: 05/08/23								
pH	7.8	0.5	pH		7.8			0.0643	10	
Duplicate (1GE0445-DUP2)		Source: 1GE0677-01 Prepared & Analyzed: 05/08/23								
pH	7.1	0.5	pH		7.0			1.22	10	
Reference (1GE0445-SRM1)		Prepared & Analyzed: 05/08/23								
pH	7.0	0.5	pH	7.00000		100	90-110			
Reference (1GE0445-SRM2)		Prepared & Analyzed: 05/08/23								
pH	7.0	0.5	pH	7.00000		100	90-110			

Batch 1GE0593 - Wet Chem Preparation

Blank (1GE0593-BLK1)		Prepared: 05/09/23 Analyzed: 05/10/23								
Solids, total suspended	ND	1	mg/L							

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South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

May 12, 2023
Page 3 of 6

Work Order: 1GE0381

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GE0593 - Wet Chem Preparation

LCS (1GE0593-BS1)		Prepared: 05/09/23 Analyzed: 05/10/23								
Solids, total suspended	12.9	1	mg/L	15.0000		86.0	74-114			
Duplicate (1GE0593-DUP1)		Source: 1GE0276-01 Prepared: 05/09/23 Analyzed: 05/10/23								
Solids, total suspended	316	10	mg/L		878			94.1	30	QR-04

Batch 1GE0609 - General Prep HPLC/IC

Blank (1GE0609-BLK1)		Prepared & Analyzed: 05/10/23								
Nitrogen, Ammonia	ND	0.10	mg/L							
Blank (1GE0609-BLK2)		Prepared & Analyzed: 05/10/23								
Nitrogen, Ammonia	ND	0.10	mg/L							
Blank (1GE0609-BLK3)		Prepared & Analyzed: 05/10/23								
Nitrogen, Ammonia	ND	0.10	mg/L							
Blank (1GE0609-BLK4)		Prepared & Analyzed: 05/10/23								
Nitrogen, Ammonia	ND	0.10	mg/L							
LCS (1GE0609-BS1)		Prepared & Analyzed: 05/10/23								
Nitrogen, Ammonia	5.06	0.10	mg/L	5.00000		101	90-114			
LCS (1GE0609-BS2)		Prepared & Analyzed: 05/10/23								
Nitrogen, Ammonia	5.12	0.10	mg/L	5.00000		102	90-114			
LCS (1GE0609-BS3)		Prepared & Analyzed: 05/10/23								
Nitrogen, Ammonia	5.06	0.10	mg/L	5.00000		101	90-114			

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South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

May 12, 2023
Page 4 of 6

Work Order: 1GE0381

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GE0609 - General Prep HPLC/IC										
LCS (1GE0609-BS4)				Prepared & Analyzed: 05/10/23						
Nitrogen, Ammonia	5.04	0.10	mg/L	5.00000		101	90-114			
MRL Check (1GE0609-MRL1)				Prepared & Analyzed: 05/10/23						
Nitrogen, Ammonia	0.109	0.10	mg/L	0.100000		109	0-200			
Matrix Spike (1GE0609-MS1)				Source: 1GE0306-03		Prepared & Analyzed: 05/10/23				
Nitrogen, Ammonia	5.34	0.10	mg/L	5.00000	ND	107	84-115			
Matrix Spike (1GE0609-MS2)				Source: 1GE0306-06		Prepared & Analyzed: 05/10/23				
Nitrogen, Ammonia	5.23	0.10	mg/L	5.00000	ND	105	84-115			
Matrix Spike (1GE0609-MS3)				Source: 1GE0322-02		Prepared & Analyzed: 05/10/23				
Nitrogen, Ammonia	5.17	0.10	mg/L	5.00000	ND	103	84-115			
Matrix Spike (1GE0609-MS4)				Source: 1GE0322-04		Prepared & Analyzed: 05/10/23				
Nitrogen, Ammonia	5.43	0.10	mg/L	5.00000	0.237	104	84-115			
Matrix Spike Dup (1GE0609-MSD1)				Source: 1GE0306-03		Prepared & Analyzed: 05/10/23				
Nitrogen, Ammonia	5.28	0.10	mg/L	5.00000	ND	106	84-115	1.09	20	
Matrix Spike Dup (1GE0609-MSD2)				Source: 1GE0306-06		Prepared & Analyzed: 05/10/23				
Nitrogen, Ammonia	5.30	0.10	mg/L	5.00000	ND	106	84-115	1.39	20	
Matrix Spike Dup (1GE0609-MSD3)				Source: 1GE0322-02		Prepared & Analyzed: 05/10/23				
Nitrogen, Ammonia	5.17	0.10	mg/L	5.00000	ND	103	84-115	0.101	20	
Matrix Spike Dup (1GE0609-MSD4)				Source: 1GE0322-04		Prepared & Analyzed: 05/10/23				
Nitrogen, Ammonia	5.42	0.10	mg/L	5.00000	0.237	104	84-115	0.113	20	

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

Certified Analyses Included In This Report

Method/Matrix	Analyte	Certifications
SM 5210 B in Water	BOD (5 day)	SIA1X,KS-NT
TIMBERLINE in Water	Nitrogen, Ammonia	SIA1X,KS-NT
USGS I-3765-85 in Water	Solids, total suspended	SIA1X,KS-NT

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South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

May 12, 2023
Page 5 of 6

Work Order: 1GE0381

Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2024
KS-NT	Kansas Department of Health and Environment (NELAP)	E-10287	10/31/2023
MO-KC	Missouri Department of Natural Resources (KC)	140	04/30/2023
MO-NT	Missouri Department of Natural Resources (Newton)	10170	04/30/2026
SIA1X	Iowa Dept. of Natural Resources	95	02/01/2024

Notes and Definitions

- I-03 Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
- QR-04 The Duplicate RPD for this analyte exceeded acceptance limits.
- QR-06 The reference standard was outside of established control limits.

End of Report



Keystone Laboratories

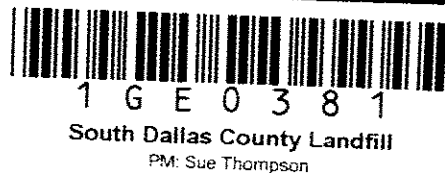
Sue Thompson
Client Services Manager

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CHAIN OF CUSTODY RECORD



600 East 17th Street South
 Newton, IA 50208
 641-792-8451



SITE INFORMATION

Sampler:
 Project: Monthly Sampling

REPORT TO

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

SPECIAL INSTRUCTIONS

None

Turn Around Time

Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order 1GE0381

Temperature 1.1

Turn-Cooler: Yes

- Custody Seal
- Containers Intact
- COC/Labels Agree
- Preservation Confirmed
- Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
01-001	South Dallas County	Water	GRAB	5/3/23	7am	2	hod-5210 pb-150.1 nh3-timberline tss-i-3765-85	01

Relinquished By [Signature] Date/Time 5-3-23 7am

Relinquished By Maher Date/Time 5/3/23 12:35

Received By _____ Date/Time _____

Received for Lab By _____ Date/Time _____
 Original - Lab Copy Yellow - Sampler Copy

Remarks:

ANALYTICAL REPORT

June 21, 2023

Work Order: 1GF0658

Page 1 of 6

Report To
Mike Fountas South Dallas County Landfill 2000 Main Street, PO Box 263 Adel, IA 50003

Work Order Information
Date Received: 6/7/2023 12:37:00PM Collector: unknown Phone: (515) 993-3148 PO Number:

Project: Monthly Sampling

Project Number: [none]

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GF0658-01	South Dallas			Matrix: Water		Collected: 06/07/23 06:10	
BOD (5 day)	69 mg/L	4	1GF0383	SM 5210 B	IDD	06/08/23 11:05	
Nitrogen, Ammonia	137 mg/L	1.00	1GF1002	TIMBERLINE	JAH	06/20/23 14:58	
pH	7.3 pH	0.5	1GF0541	EPA 150.1	BSS	06/12/23 16:39	I-03
Solids, total suspended	34 mg/L	3	1GF0432	USGS I-3765-85	MEAH	06/12/23 8:00	

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South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

June 21, 2023
Page 2 of 6

Work Order: 1GF0658

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GF0383 - General Prep Micro

Blank (1GF0383-BLK1)		Prepared & Analyzed: 06/08/23								
BOD (5 day)	ND	4	mg/L							
Duplicate (1GF0383-DUP1)		Source: 1GF0634-03		Prepared & Analyzed: 06/08/23						
BOD (5 day)	626	4	mg/L		636			1.58	29	
Reference (1GF0383-SRM1)		Prepared & Analyzed: 06/08/23								
BOD (5 day)	216	4	mg/L	198.000		109	84.6-115.4			
Reference (1GF0383-SRM2)		Prepared & Analyzed: 06/08/23								
BOD (5 day)	202	4	mg/L	198.000		102	84.6-115.4			

Batch 1GF0432 - Wet Chem Preparation

Blank (1GF0432-BLK1)		Prepared: 06/08/23 Analyzed: 06/12/23								
Solids, total suspended	ND	1	mg/L							
LCS (1GF0432-BS1)		Prepared: 06/08/23 Analyzed: 06/12/23								
Solids, total suspended	15.0	1	mg/L	15.0000		100	74-114			
Duplicate (1GF0432-DUP1)		Source: 1GF0637-01		Prepared: 06/08/23 Analyzed: 06/12/23						
Solids, total suspended	29.0	5	mg/L		27.0			7.14	30	

Batch 1GF0541 - Wet Chem Preparation

Duplicate (1GF0541-DUP1)		Source: 1GF0915-01		Prepared & Analyzed: 06/12/23						
pH	10.3	0.5	pH		10.3			0.0389	10	

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South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

June 21, 2023
Page 3 of 6

Work Order: 1GF0658

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GF0541 - Wet Chem Preparation

Reference (1GF0541-SRM1)				Prepared & Analyzed: 06/12/23						
pH	7.0	0.5	pH	7.00000		100	90-110			
Reference (1GF0541-SRM2)				Prepared & Analyzed: 06/12/23						
pH	7.0	0.5	pH	7.00000		100	90-110			
Reference (1GF0541-SRM3)				Prepared & Analyzed: 06/12/23						
pH	12.5	0.5	pH	12.4500		101	90-110			

Batch 1GF1002 - General Prep HPLC/IC

Blank (1GF1002-BLK1)				Prepared & Analyzed: 06/20/23						
Nitrogen, Ammonia	ND	0.10	mg/L							
Blank (1GF1002-BLK2)				Prepared & Analyzed: 06/20/23						
Nitrogen, Ammonia	ND	0.10	mg/L							
LCS (1GF1002-BS1)				Prepared & Analyzed: 06/20/23						
Nitrogen, Ammonia	4.97	0.10	mg/L	5.00000		99.4	90-114			
LCS (1GF1002-BS2)				Prepared & Analyzed: 06/20/23						
Nitrogen, Ammonia	4.85	0.10	mg/L	5.00000		96.9	90-114			
Matrix Spike (1GF1002-MS1)		Source: 1GF0625-03			Prepared & Analyzed: 06/20/23					
Nitrogen, Ammonia	5.09	0.10	mg/L	5.00000	ND	102	84-115			
Matrix Spike (1GF1002-MS2)		Source: 1GF0634-02			Prepared & Analyzed: 06/20/23					
Nitrogen, Ammonia	5.03	0.10	mg/L	5.00000	0.114	98.3	84-115			

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South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

June 21, 2023
Page 4 of 6

Work Order: 1GF0658

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1GF1002 - General Prep HPLC/IC

Matrix Spike Dup (1GF1002-MSD1)	Source: 1GF0625-03			Prepared & Analyzed: 06/20/23						
Nitrogen, Ammonia	5.14	0.10	mg/L	5.00000	ND	103	84-115	1.01	20	
Matrix Spike Dup (1GF1002-MSD2)	Source: 1GF0634-02			Prepared & Analyzed: 06/20/23						
Nitrogen, Ammonia	4.90	0.10	mg/L	5.00000	0.114	95.8	84-115	2.51	20	

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

Certified Analyses Included In This Report

Method/Matrix	Analyte	Certifications
SM 5210 B in Water	BOD (5 day)	SIA1X,KS-NT
TIMBERLINE in Water	Nitrogen, Ammonia	SIA1X,KS-NT
USGS I-3765-85 in Water	Solids, total suspended	SIA1X,KS-NT

Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2024
KS-NT	Kansas Department of Health and Environment (NELAP)	E-10287	10/31/2023
MO-KC	Missouri Department of Natural Resources (KC)	140	04/30/2024
MO-NT	Missouri Department of Natural Resources (Newton)	10170	04/30/2026
SIA1X	Iowa Dept. of Natural Resources	95	02/01/2024

Notes and Definitions

I-03 Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

June 21, 2023
Page 5 of 6

Work Order: 1GF0658

End of Report

Sue Thompson

Keystone Laboratories

Sue Thompson
Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

CHAIN OF CUSTODY REPORT



600 East 17th Street South
 Newton, IA 50208
 641-792-8451



1 G F 0 6 5 8
 South Dallas County Landfill
 PM: Sue Thompson

Page 1 of 1
 023 4:16:43PM
 keystone-labs.cc

SITE INFORMATION

Sampler:
 Project: Monthly Sampling

REPORT TO

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

SPECIAL INSTRUCTIONS

None

Turn Around Time

Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order 16F0658

Temperature 0.0

Turn-Cooler: Yes

- Custody Seal
- Containers Intact
- COC/Labels Agree
- Preservation Confirmed
- Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses		Lab Sample Number
01-001	<u>South Dallas</u>	Water	GRAB	<u>6/7/23</u>	<u>6:10</u>	<u>2</u>	bod-5210 ph-150.1	nh3-timberline iss-i-3765-85	<u>01</u>

Relinquished By _____ Date/Time _____

Received By _____ Date/Time _____

[Signature] 6-7-23
 Relinquished By _____ Date/Time _____

[Signature] 6/7/23 12:37
 Received for Lab By _____ Date/Time _____

Original - Lab Copy Yellow - Sampler Copy

Remarks: _____

ANALYTICAL REPORT

July 17, 2023

Work Order: 1GG0151

Page 1 of 6

Report To
Mike Fountas South Dallas County Landfill 2000 Main Street, PO Box 263 Adel, IA 50003

Work Order Information
Date Received: 7/5/2023 12:17:00PM Collector: South Dallas County Phone: (515) 993-3148 PO Number:

Project: Monthly Sampling

Project Number: [none]

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GG0151-01	South Dallas County			Matrix: Water		Collected: 07/05/23 11:30	
BOD (5 day)	41 mg/L	4	1GG0135	SM 5210 B	RMC	07/05/23 17:00	
Nitrogen, Ammonia	131 mg/L	1.00	1GG0619	TIMBERLINE	JAH	07/13/23 13:15	
pH	7.1 pH	0.5	1GG0219	EPA 150.1	BSS	07/06/23 16:26	I-03
Solids, total suspended	15 mg/L	4	1GG0149	USGS I-3765-85	MEAH	07/07/23 13:12	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

July 17, 2023
Page 2 of 6

Work Order: 1GG0151

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1GG0135 - General Prep Micro

Blank (1GG0135-BLK1)		Prepared & Analyzed: 07/05/23								
BOD (5 day)	ND	4	mg/L							B-06
Duplicate (1GG0135-DUP1)		Source: 1GG0150-01		Prepared & Analyzed: 07/05/23						
BOD (5 day)	ND	4	mg/L		ND				29	
Reference (1GG0135-SRM1)		Prepared & Analyzed: 07/05/23								
BOD (5 day)	199	4	mg/L	198.000		101	84.6-115.4			
Reference (1GG0135-SRM2)		Prepared & Analyzed: 07/05/23								
BOD (5 day)	208	4	mg/L	198.000		105	84.6-115.4			

Batch 1GG0149 - Wet Chem Preparation

Blank (1GG0149-BLK1)		Prepared: 07/06/23 Analyzed: 07/07/23								
Solids, total suspended	ND	1	mg/L							
LCS (1GG0149-BS1)		Prepared: 07/06/23 Analyzed: 07/07/23								
Solids, total suspended	13.4	1	mg/L	15.0000		89.3	74-114			
Duplicate (1GG0149-DUP1)		Source: 1GG0113-01		Prepared: 07/06/23 Analyzed: 07/07/23						
Solids, total suspended	66.0	7	mg/L		70.7			6.83	30	

Batch 1GG0219 - Wet Chem Preparation

Duplicate (1GG0219-DUP1)		Source: 1GG0149-01		Prepared & Analyzed: 07/06/23						
pH	7.5	0.5	pH		7.5			0.0670	10	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

July 17, 2023
Page 3 of 6

Work Order: 1GG0151

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GG0219 - Wet Chem Preparation										
Reference (1GG0219-SRM1)				Prepared & Analyzed: 07/06/23						
pH	7.0	0.5	pH	7.00000		100	90-110			
Reference (1GG0219-SRM2)				Prepared & Analyzed: 07/06/23						
pH	7.0	0.5	pH	7.00000		100	90-110			
Batch 1GG0619 - General Prep HPLC/IC										
Blank (1GG0619-BLK1)				Prepared & Analyzed: 07/13/23						
Nitrogen, Ammonia	ND	0.10	mg/L							
Blank (1GG0619-BLK2)				Prepared & Analyzed: 07/13/23						
Nitrogen, Ammonia	ND	0.10	mg/L							
LCS (1GG0619-BS1)				Prepared & Analyzed: 07/13/23						
Nitrogen, Ammonia	5.06	0.10	mg/L	5.00000		101	90-114			
LCS (1GG0619-BS2)				Prepared & Analyzed: 07/13/23						
Nitrogen, Ammonia	5.09	0.10	mg/L	5.00000		102	90-114			
Matrix Spike (1GG0619-MS1)				Source: 1GG0465-01		Prepared & Analyzed: 07/13/23				
Nitrogen, Ammonia	5.21	0.10	mg/L	5.00000	0.180	101	84-115			
Matrix Spike (1GG0619-MS2)				Source: 1GG0466-01		Prepared & Analyzed: 07/13/23				
Nitrogen, Ammonia	5.31	0.10	mg/L	5.00000	0.237	101	84-115			
Matrix Spike Dup (1GG0619-MSD1)				Source: 1GG0465-01		Prepared & Analyzed: 07/13/23				
Nitrogen, Ammonia	5.45	0.10	mg/L	5.00000	0.180	105	84-115	4.59	20	

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South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

July 17, 2023
Page 4 of 6

Work Order: 1GG0151

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1GG0619 - General Prep HPLC/IC

Matrix Spike Dup (1GG0619-MSD2)	Source: 1GG0466-01			Prepared & Analyzed: 07/13/23						
Nitrogen, Ammonia	5.54	0.10	mg/L	5.00000	0.237	106	84-115	4.34	20	

Batch 1GG0668 - General Prep HPLC/IC

Blank (1GG0668-BLK1)				Prepared & Analyzed: 07/14/23						
Nitrogen, Ammonia	ND	0.10	mg/L							

Blank (1GG0668-BLK2)				Prepared & Analyzed: 07/14/23						
Nitrogen, Ammonia	ND	0.10	mg/L							

LCS (1GG0668-BS1)				Prepared & Analyzed: 07/14/23						
Nitrogen, Ammonia	5.08	0.10	mg/L	5.00000		102	90-114			

LCS (1GG0668-BS2)				Prepared & Analyzed: 07/14/23						
Nitrogen, Ammonia	5.12	0.10	mg/L	5.00000		102	90-114			

Matrix Spike (1GG0668-MS1)	Source: 1GG0185-03			Prepared & Analyzed: 07/14/23						
Nitrogen, Ammonia	5.35	0.10	mg/L	5.00000	0.325	101	84-115			

Matrix Spike (1GG0668-MS2)	Source: 1GG0192-03			Prepared & Analyzed: 07/14/23						
Nitrogen, Ammonia	5.43	0.10	mg/L	5.00000	0.327	102	84-115			

Matrix Spike Dup (1GG0668-MSD1)	Source: 1GG0185-03			Prepared & Analyzed: 07/14/23						
Nitrogen, Ammonia	5.59	0.10	mg/L	5.00000	0.325	105	84-115	4.26	20	

Matrix Spike Dup (1GG0668-MSD2)	Source: 1GG0192-03			Prepared & Analyzed: 07/14/23						
Nitrogen, Ammonia	5.49	0.10	mg/L	5.00000	0.327	103	84-115	1.08	20	

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

Certified Analyses Included In This Report

Method/Matrix	Analyte	Certifications
SM 5210 B in Water	BOD (5 day)	SIA1X,KS-NT
TIMBERLINE in Water	Nitrogen, Ammonia	SIA1X,KS-NT
USGS I-3765-85 in Water	Solids, total suspended	SIA1X,KS-NT

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South Dallas County Landfill
2000 Main Street, PO Box 263
Adel, IA 50003

July 17, 2023
Page 5 of 6

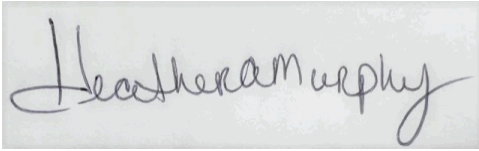
Work Order: 1GG0151

Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2024
KS-NT	Kansas Department of Health and Environment (NELAP)	E-10287	10/31/2023
MO-KC	Missouri Department of Natural Resources (KC)	140	04/30/2024
MO-NT	Missouri Department of Natural Resources (Newton)	10170	04/30/2026
SIA1X	Iowa Dept. of Natural Resources	95	02/01/2024

Notes and Definitions

- B-06 Unseeded Blank equals .4mg/L
 - I-03 Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
-

End of Report



Keystone Laboratories
Heather Murphy
Customer Relationship Specialist

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

CHAIN OF CUSTODY RECORD



600 East 17th Street South
 Newton, IA 50208
 641-792-8451



1 G G 0 1 5 1
 South Dallas County Landfill
 PM: Heather Murphy

Page 1 of 1
 5/9/2023 2:27:43PM
 www.keystonelabs.co

SITE INFORMATION

Sampler: South Dallas county
 Project: Monthly Sampling

REPORT TO

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

SPECIAL INSTRUCTIONS

None

Turn Around Time

Standard RUSH, need by / /

LAB USE ONLY

Work Order 1660151
 Temperature 2.6
 Turn-Cooler: Yes

- Custody Seal
- Containers Intact
- COC/Labels Agree
- Preservation Confirmed
- Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses		Lab Sample Number
01-001	<u>South Dallas county</u>	Water	GRAB	<u>7/5/23</u>	<u>11:30 AM</u>	<u>2</u>	hod-5210 ph-150.1	nh3-timberline tss-i-3765-85	<u>01</u>

[Signature] 7-5-23 11:30am Relinquished By Maher 7/5/23 12:17 Date/Time

Received By _____ Date/Time _____
 Received for Lab By _____ Date/Time _____
 Original - Lab Copy Yellow - Sampler Copy

Remarks:



Keystone Laboratories - Newton
 CERTIFICATE OF ANALYSIS
 1GH0246

South Dallas County Landfill

Project Name: Monthly Sampling

Mike Fountas
 2000 Main Street, PO Box 263
 Adel, IA 50003

Project / PO Number: / [none]
 Received: 08/02/2023
 Reported: 08/14/2023

Analytical Testing Parameters

Client Sample ID:	South Dallas	Collected By:	unknown
Sample Matrix:	Water	Collection Date:	08/02/2023 6:15
Lab Sample ID:	1GH0246-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 150.1								
pH	7.4	0.5	pH	1	I-03	08/04/23 0819	08/04/23 1531	BSS
SM 5210 B								
BOD (5 day)	54	4	mg/L	1		08/02/23 1639	08/03/23 0930	LAE
TIMBERLINE								
Nitrogen, Ammonia	130	1.00	mg/L	10		08/11/23 0806	08/11/23 1043	JAH
USGS I-3765-85								
Solids, total suspended	74	5	mg/L	5		08/03/23 0906	08/04/23 0925	MEA

Definitions

- I-03: Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
- RL: Reporting Limit

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
 08/14/23 10:42

CHAIN OF CUSTODY



600 East 17th Street South
 Newton, IA 50208
 641-792-8451



South Dallas County Landfill
 PM: Heather Murphy

SITE INFORMATION

Sampler:
 Project: Monthly Sampling

REPORT TO

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

INVOICE TO

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

SPECIAL INSTRUCTIONS

None

Turn Around Time

Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order IGH0246
 Temperature 0.3
 Turn-Cooler: Yes

- Custody Seal
- Containers Intact
- COC/Labels Agree
- Preservation Confirmed
- Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
01-001	<u>South Dallas</u>	Water	GRAB	<u>8/2/23</u>	<u>6:15 AM</u>	<u>2</u>	bod-5210 ph-159.1 nh3-timberline rss-i-3765-85	<u>01</u>

~~Relinquished By~~ 8-2-23 GILSON
 Relinquished By Date/Time

Maher 8/2/23 12:22
 Relinquished By Date/Time

Received By Date/Time

Received for Lab By Date/Time

Original - Lab Copy Yellow - Sampler Copy

Remarks:

Keystone Laboratories - Newton
CERTIFICATE OF ANALYSIS
1GI0323

South Dallas County Landfill

Project Name: Monthly Sampling

Mike Fountas
2000 Main Street, PO Box 263
Adel, IA 50003

Project / PO Number: / [none]
Received: 09/06/2023
Reported: 09/15/2023

Analytical Testing Parameters

Client Sample ID:	South Dallas County	Collected By:	South Dallas County
Sample Matrix:	Water	Collection Date:	09/06/2023 7:30
Lab Sample ID:	1GI0323-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 150.1								
pH	7.2	0.5	pH	1	I-03	09/11/23 0842	09/11/23 0845	BSS
SM 5210 B								
BOD (5 day)	56	4	mg/L	1		09/06/23 1650	09/07/23 1105	IDD
TIMBERLINE								
Nitrogen, Ammonia	164	2.00	mg/L	20		09/14/23 1342	09/14/23 1637	JAH
USGS I-3765-85								
Solids, total suspended	26	1	mg/L	1		09/11/23 0804	09/11/23 1255	MEA

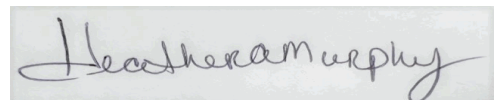
Definitions

I-03: Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
RL: Reporting Limit

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
09/15/23 08:11



SITE INFORMATION
 Sampler: South Dallas County
 Project: Monthly Sampling

REPORT TO
 Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

INVOICE TO
 Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

SPECIAL INSTRUCTIONS
 None

 Turn Around Time
 Standard RUSH, need by ___/___/___

LAB USE ONLY
 Work Order 1610323
 Temperature 3.0
 Turn-Cooler: Yes
 Custody Seal
 Containers Intact
 COC/Labels Agree
 Preservation Confirmed
 Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses		Lab Sample Number
01-001	<u>South Dallas County</u>	Water	GRAB	<u>9/16/23</u>	<u>7:30AM</u>	<u>2</u>	bod-5210 ph-150.1	nh3-timberline tss-i-3765-85	<u>01</u>

Mike Fountas 9-6-23 7:30AM Maker 9/16/23 12:13

Relinquished By _____ Date/Time _____
 Relinquished By _____ Date/Time _____
 Received By _____ Date/Time _____
 Received for Lab By _____ Date/Time _____

Remarks:

Original - Lab Copy Yellow - Sampler Copy

Keystone Laboratories - Newton
CERTIFICATE OF ANALYSIS
1GJ0299

South Dallas County Landfill

Project Name: Monthly Sampling

Mike Fountas
2000 Main Street, PO Box 263
Adel, IA 50003

Project / PO Number: / [none]
Received: 10/04/2023
Reported: 10/13/2023

Analytical Testing Parameters

Client Sample ID:	South Dallas County	Collected By:	MF
Sample Matrix:	Water	Collection Date:	10/04/2023 5:45
Lab Sample ID:	1GJ0299-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 150.1								
pH	7.1	0.5	pH	1	I-03	10/09/23 1123	10/09/23 1649	BSS
SM 5210 B								
BOD (5 day)	41	4	mg/L	1			10/05/23 1615	RMC
TIMBERLINE								
Nitrogen, Ammonia	120	1.00	mg/L	10		10/09/23 1331	10/12/23 1304	LJS
USGS I-3765-85								
Solids, total suspended	33	1	mg/L	1		10/05/23 1635	10/06/23 1045	MEA

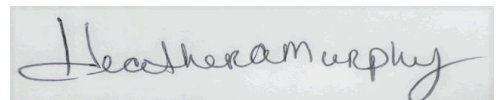
Definitions

I-03: Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
RL: Reporting Limit

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:



Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
10/13/23 16:22



SITE INFORMATION

Sampler:

Project: **Monthly Sampling**

REPORT TC

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

SPECIAL INSTRUCTIONS

None

Turn Around Time
 Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order 1650299

Temperature 2.1

Turn-Cooler: Yes

Custody Seal
 Containers Intact
 COC/Labels Agree
 Preservation Confirmed
 Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses		Lab Sample Number
01-001	<u>South Dallas County</u>	Water	GRAB	<u>10/4/23</u>	<u>5:45 AM</u>	<u>2</u>	bod-5210 ph-150.1	nh3-amberline tss-i-3765-85	<u>01</u>

[Signature] 10-4-23 5:45
 Relinquished By Date/Time

[Signature] 10-4-23 12:26
 Relinquished By Date/Time
 Received for Lab By Date/Time

Remarks:

Received By Date/Time

Keystone Laboratories - Newton
CERTIFICATE OF ANALYSIS
1GK0115

South Dallas County Landfill

Project Name: Monthly Sampling

Mike Fountas
2000 Main Street, PO Box 263
Adel, IA 50003

Project / PO Number: / [none]
Received: 11/01/2023
Reported: 11/14/2023

Analytical Testing Parameters

Client Sample ID:	South Dallas County Landfill	Collected By:	Unknown
Sample Matrix:	Water	Collection Date:	11/01/2023 10:25
Lab Sample ID:	1GK0115-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 150.1								
pH	7.3	0.5	pH	1	I-03		11/01/23 1225	CHP
SM 5210 B								
BOD (5 day)	40	4	mg/L	1		11/01/23 1714	11/02/23 1146	JLW
TIMBERLINE								
Nitrogen, Ammonia	139	1.00	mg/L	10		11/14/23 0715	11/14/23 1422	LNH
USGS I-3765-85								
Total Suspended Solids (TSS)	33	1	mg/L	1		11/07/23 1247	11/07/23 1515	SAA

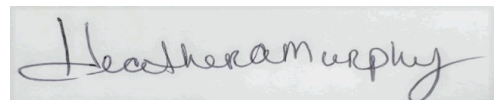
Definitions

I-03: Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
RL: Reporting Limit

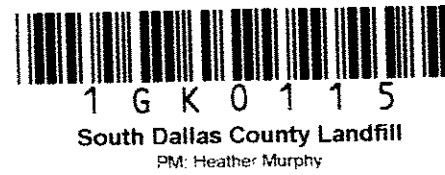
Report Comments

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
11/14/23 15:43



SITE INFORMATION
 Sampler:
 Project: **Monthly Sampling**

REPORT TO
 Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

INVOICE TO
 Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

SPECIAL INSTRUCTIONS
 None
 Turn Around Time
 Standard RUSH, need by ___/___/___

LAB USE ONLY
 Work Order 1GK0115
 Temperature 5.6
 Turn-Cooler: **Yes**

- Custody Seal
- Containers Intact
- COC/Labels Agree
- Preservation Confirmed
- Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses		Lab Sample Number
01-001	<u>South Dallas County Landfill</u>	Water	GRAB	<u>11/1/23</u>	<u>10:25</u>	<u>2</u>	bod-5210 ph-150.1	nh3-timberline tss-i-3765-85	<u>01</u>

Heather Murphy 11/1/23 10:25AM Relinquished By Maher 11-1-23 12:25 Date/Time

Received By _____ Date/Time _____ Received for Lab By _____ Date/Time _____

Remarks:

Original - Lab Copy Yellow - Sampler Copy



Keystone Laboratories - Newton
 CERTIFICATE OF ANALYSIS
 1GL0378

South Dallas County Landfill

Project Name: Monthly Sampling

Mike Fountas
 2000 Main Street, PO Box 263
 Adel, IA 50003

Project / PO Number: / [none]
 Received: 12/06/2023
 Reported: 12/20/2023

Analytical Testing Parameters

Client Sample ID:	South Dallas	Collected By:	MF
Sample Matrix:	Water	Collection Date:	12/06/2023 6:00
Lab Sample ID:	1GL0378-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 150.1								
pH	7.6	0.5	pH	1	I-03	12/08/23 1557	12/08/23 1729	CHP
SM 5210 B								
BOD (5 day)	28	5	mg/L	3		12/07/23 1325	12/07/23 1718	BDF
TIMBERLINE								
Nitrogen, Ammonia	119	1.00	mg/L	10		12/11/23 1041	12/11/23 1416	LJS
USGS I-3765-85								
Total Suspended Solids (TSS)	14	1	mg/L	1		12/07/23 1304	12/11/23 1005	MEA

Definitions

- I-03: Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
- RL: Reporting Limit

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:

Sue Thompson
 Client Services Manager
 12/20/23 06:30

Keystone
 LABORATORIES
 A Microbac Company

600 East 17th Street Sc
 Newton, IA 50208
 641-792-8451



1 G L 0 3 7 8
 South Dallas County Landfill
 PM: Heather Murphy

Page 1 of
 Printed: 10/14/2023 10:35:56A

www.keystonelabs.com

SITE INFORMATION

Sampler:

Project: Monthly Sampling

REPORT TO

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

INVOICE TO

Mike Fountas
 South Dallas County Landfill
 2000 Main Street, PO Box 263
 Adel, IA 50003

SPECIAL INSTRUCTIONS

None

Turn Around Time
 Standard RUSH, need by / /

LAB USE ONLY

Work Order 1GL0378

Temperature 2.6

Turn-Cooler: Yes

Custody Seal
 Containers Intact
 COC/Labels Agree
 Preservation Confirmed
 Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses		Lab Sample Number
-001	<u>South Dallas</u>	Water	GRAB	<u>12/6/23</u>	<u>6am</u>	<u>2</u>	bod-5210 ph-150.1	nh3-amberline tss-i-3765-83	<u>01</u>

[Signature] 12-6-23 6:23
 Relinquished By Date/Time

Received By Date/Time

Maher 12-6-23 12:46
 Relinquished By Date/Time
 Received for Lab By Date/Time

Remarks:

Original - Lab Copy Yellow - Sampler Copy

Appendix H.4 – Leachate Recirculation Volumes

Appendix H.5 – Leachate Piezometer Elevation Monitoring

Table H1
South Dallas County Sanitary Landfill
25-SDP-01-75P
LEACHATE MEASUREMENTS - CLOSED LANDFILLING AREAS

Existing Well ID	1/13/2023		4/6/2023		7/31/2023		10/30/2023	
	Depth to Leachate (ft)	Leachate Elevation (ft)	Depth to Leachate (ft)	Leachate Elevation (ft)	Depth to Leachate (ft)	Leachate Elevation (ft)	Depth to Leachate (ft)	Leachate Elevation (ft)
LW-1	30.21	908.76	31.21	907.76	33.12	905.85	33.51	905.46
LW-2	58.21	896.42	59.31	895.32	60.31	894.32	61.11	893.52
LW-3	57.11	885.93	57.61	885.43	58.11	884.93	58.21	884.83
LW-4	40.11	899.95	39.41	900.65	40.31	899.75	40.71	899.35
LW-5	42.51	894.33	43.11	893.73	43.71	893.13	43.51	893.33
LW-6	68.61	888.59	67.71	889.49	69.81	887.39	69.91	887.29
LPZ-1	45.71	913.71	44.81	914.61	46.81	912.61	47.11	912.31
LPZ-3	35.41	909.05	36.31	908.15	37.91	906.55	37.81	906.65

Existing Well ID	Top of Casing Elev. (ft)
LW-1	938.97
LW-2	954.63
LW-3	943.04
LW-4	940.06
LW-5	936.84
LW-6	957.2
LPZ-1	959.42
LPZ-3	944.46

Table H2
South Dallas County Sanitary Landfill
25-SDP-01-75P
LEACHATE MEASUREMENTS - SUBTITLE D AREA

Date	LPZ-12 Phase 1 & 2	LPZ-13 Phase 3
	Leachate Thickness (in)	Leachate Thickness (in)
1/13/2023	<1	<1
2/13/2023	<1	<1
3/6/2023	<1	<1
4/6/2023	<1	<1
5/17/2023	<1	<1
6/5/2023	<1	<1
7/31/2023	<1	2
8/21/2023	<1	<1
9/24/2023	<1	<1
10/30/2023	<1	<1
11/14/2023	<1	<1
12/26/2023	<1	<1