2024 ANNUAL GROUNDWATER QUALITY REPORT

FOR THE

FAYETTE COUNTY SANITARY LANDFILL

33-SDP-02-83C

FAYETTE, IOWA

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

February, 2025

6041-24A.320

Table of Contents

Certification

Prepared by: ___________________________________ Date: ______2-17-2025_________

Printed: Todd Whipple, CPG

Section 1.0 Background Information

1.1 Report Priority

Review of this report is considered to be low priority.

The horizontal impact near MW-5 was delineated and reported to IDNR on March 5, 2018 (Doc #91714). An Assessment of Corrective Measures (ACM) was completed and submitted to IDNR on September 24, 2018 (Doc #93290). The ACM was approved in Permit Revision #8 dated August 22, 2019 (Doc #95760). The remedy was constructed in October, 2020 and Construction Certification (Doc # 98814) was submitted to IDNR on October 29, 2020.

MW-5 is designated as the Corrective Action Monitoring Point of Compliance Well following construction of the remedy. SSL continue to be recorded at monitoring well MW-5 but appear to be decreasing over time.

No other SSL have been identified to date. It is recommended that the semi-annual water quality sampling in 2025 be conducted per Table 1. Sulfide testing will continue on a semi-annual basis at MW-5.

Period of Report Coverage

Water quality data evaluation is based on a running compilation of data beginning in October 24, 2014. Statistical evaluations herein are based on the 2024 water quality data collected April 22, 2024 and October 7, 2024.

1.2 Current Site Maps

Figure 1 is attached illustrating the current site features and monitoring well locations. Figure 2 is the Water Table Contour Map for the shallow monitoring wells on site. Figure 3 is a Potentiometric Water Surface Map for the limestone wells on the site. Figure 4 illustrates the Leachate System, and the Leachate monitoring points across the facility. Figure 5 illustrates the subsurface gas probe locations for the facility.

1.3 Site Status and Applicable Rules

Site Location

The Fayette County Sanitary Landfill is located in Section 33, T93N, R8W, Fayette County, Iowa, approximately 1 mile south of Fayette, Iowa on County Road C24. The facility operates under the Iowa Department of Natural Resources (IDNR) Permit Number 33-SDP-02-83C.

Landfill Layout

The site encompasses several contiguous, closed fill areas. The fill areas are designated as the Old Fill Area (an unlined landfill cell 1983-1996); Cell 1 (A-D) 1996 to 2009; Area NE-X (1998-2001); and Cell 2A (2001-2009). The landfill facility is closed under the Closure permit issued June 20, 2013. A transfer station was constructed at the site in 2009 and operates under Permit 33-SDP-07-09XFR. Figure 1 illustrates the former fill areas.

Applicable Rules

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

1.4 Summary of Hydrologic Monitoring System Plan (HMSP)

On September 14, 2012 a HMSP revision was submitted (Doc# 74134), followed by supplemental information on April 23, 2013 (Doc# 76727). The HMSP and Supplemental Information was approved and incorporated into the Closure Permit for the facility dated June 20, 2013 (Doc# 77358). Revisions to the HMSP related to MW-24, MW-32, and MW-33 were approved in Permit Amendment #7, dated October 11, 2018 (Doc #93484).

A request to add two points, Tile ACM-1 and PECS 1, to the HMSP was included in the Construction Certification Report for the Assessment of Corrective Measures project dated October 29, 2020 (Doc #98814).

A request was filed on August 4, 2023 (Doc #107397) requesting that the limestone wells at the site be removed from the HMSP. The request was approved on November 8, 2023, in the Closure Permit Amendment (Doc #108179).

The Site Plan and the approved monitoring network are illustrated on Figure 1. The current HMSP is summarized in Table 1.

Table 1 - Hydrologic Monitoring System Plan (HMSP)

WELL	Monitoring Phase	April, 2025	October, 2025	Most Recent Appendix II	Next Appendix II
MW-12 (b-till)	Detection Monitoring	Appendix I	Appendix I	**N/A**	**N/A**
MW-17 (b-till)	Detection Monitoring	Appendix I	Appendix I	**N/A**	**N/A**
MW-21 (b-till)	Detection Monitoring	Appendix I	Appendix I	**N/A**	**N/A**
MW-5	POC-CA	Appendix I(2)	Appendix I(2,3)	**10/14/2020**	**N/A**
MW-7	Assessment Monitoring	Appendix I	**Appendix II**	**10/14/2020**	**10/2025**
MW-9	Assessment Monitoring	Appendix I	Appendix I	**4/3/2023**	**4/2028**
MW-16	Detection Monitoring	Appendix I	Appendix I	**4/11/2018**	**N/A**
MW-24	Assessment Monitoring	Appendix I	Appendix I	**4/12/2021**	**4/2026**
MW-25	Assessment Monitoring	Appendix I	Appendix I	**4/3/2023**	**4/2028**
MW-26	Assessment Monitoring	Appendix I	Appendix I	**4/3/2023**	**4/2028**
MW-32	Assessment Monitoring	Appendix I	Appendix I	**10/25/2022**	**10/2027**
MW-33	Assessment Monitoring	Appendix I	Appendix I	**10/16/2023**	**10/2028**
ACM Tile	Corrective Measure	As + App. I VOC	As + App. I VOC	**N/A**	**N/A**
PEC-1	PECS Performance	App. I VOC	App. I VOC	**N/A**	**N/A**
Duplicate	QA/QC	Appendix I	Appendix I	**N/A**	**N/A**

(b-till)(b-LS) background wells, glacial till system.
POC-CA= Point of Compliance Corrective Action Monitoring
(1) = bis(2-ethylhexyl)phthalate.
(2) = sulfide
(3) = Methane, ethane, ethene, alkalinity, and pH (annually)

Monitoring Well Maintenance Performance Reevaluation activities associated with the HMSP monitoring wells are discussed in the information presented in Appendix A.

Section 2.0 Reporting Period Monitoring Activities

Field sampling information for the April 22, 2024 and October 7, 2024. sampling episodes is included on the field forms (IDNR Form 542-1322) in Appendix B.

A comprehensive summary of Analytical Data for the episodes between October 24, 2014 and October 7, 2024 is included in Appendix C.

2.1 Current Detection Monitoring Activities

The background wells (MW-12, MW-17, and MW-21) and downgradient well MW-16 are in detection monitoring. PECS-1 is utilized to confirm the performance of the Passive Engineered Conveyance Structure (PECS).

2.2 Current Assessment Monitoring Activities

Wells that are in Assessment Monitoring include MW-7, MW-9, MW-24, MW-25, MW-26, MW-32, and MW-33. A summary of the full Appendix II sampling episodes is included in the Table below.

MW-5 is designated the Point of Compliance Corrective Action Monitoring Well, which underwent the full Appendix II sampling on a frequency identical to the Assessment Monitoring wells prior to being designated a Corrective Action Well. There is no requirement in rule to pull Appendix II samples on Corrective Action Wells.

Table 2 – Full Appendix II Sample Collection Events

Monitoring Point	1st Episode	2nd Episode	3rd Episode	4th Episode	5th Episode
Water Table System					
MW-5	June, 2011	April, 2012	October, 2015	October, 2020	
MW-7	April, 2013	May, 2014	October, 2015	October, 2020	
MW-9	April, 2017	April, 2018	April, 2023		
MW-16	October, 2017	April, 2018	N/A		
MW-24	October, 2015	April, 2016	April, 2021		
MW-25	April, 2017	April, 2018	April, 2023		
MW-26	October, 2017	April, 2018	April, 2023		
MW-32	October, 2021	October, 2022			
MW-33	October, 2022	October, 2023			

A minimum of two (2) rounds of full Appendix II sampling has been completed at each assessment monitoring well.

The frequency of full Appendix II sampling was reduced to once per five (5) years in Permit Amendment #3, dated March 9, 2016 (Doc # 85814). Assessment Monitoring Wells are placed in on-going assessment monitoring following the initial two (2) rounds of sampling in accordance with requirements of IAC 567-113.10(6)"d"(2), which includes Appendix I plus all detected Appendix II compounds beyond the Appendix I list.

2.3 Current Corrective Action Monitoring Activities

Historic Corrective Actions in place at this facility include the gas venting system throughout the closed landfill cap (Vents 1-18). Recently (October, 2020), a groundwater cut-off line (ACM Tile) coupled with nine (9) vertical subsurface gas vents were constructed outside the waste boundary in the vicinity of MW-5. The remedy was constructed in October, 2020 and Construction Certification (Doc # 98814) was submitted to IDNR on October 29, 2020. MW-5 is designated as the Corrective Action Monitoring Well.

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 Fayette County Landfill, First Semi-Annual Monitoring Event in 2024, dated May, 2024 is included in Appendix D.1. The Groundwater Statistics Report for the Fayette County Landfill, Second Semi-Annual Monitoring Event in 2024, dated November, 2024 is included in Appendix D.2.

The Analytical Reports for the laboratory testing for April 22, 2024 and October 7, 2024 sampling episodes are included in Appendix E.

3.1 QUALITY ASSURANCE/QUALITY CONTROL

A blind duplicate sample was collected at MW-5 during the April 22, 2024 sampling episode. A blind duplicate sample was collected at MW-16 during the October 7, 2024 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/or 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 in both the April 22, 2024 and October 7, 2024 sampling episodes are within the limits established and indicate that the data quality is acceptable without restriction.

3.2 BACKGROUND DATA VALIDATION

On July 10, 2014 an unnumbered Permit Amendment and Memo was issued by the IDNR regarding turbidity (Doc # 80736). A TSS and Field Turbidity Evaluation Report was submitted on February 17, 2016, and approved by IDNR in Permit Amendment #5 on March 29, 2016 (Doc #85816).

Based on the Unnumbered Permit Amendment, low-flow sampling was performed in October, 2014 and April, 2015. No-purge sampling was performed beginning in October, 2015.

The background data utilized herein has been restricted to include only sample results since October, 2014 in order to avoid turbidity related issues that may have been associated with historic sample collection methods. A summary of the recorded field turbidity measurements is included in Appendix D.3.

Upgradient Data, Table 1, Attachment B, to the November, 2024 Statistical Evaluation Report (Appendix D.2) includes a summary of the background data.

The site prediction limits established in the November, 2024 Statistical Evaluation Report (Appendix D.2) are based on the restricted background and are relied upon herein.

3.3 SITE SPECIFIC GWPS

Review of the inorganic Prediction Limits Table 5, Attachment B (Shallow Till/Fill System) to the November, 2024 Statistical Evaluation Report (Appendix D.2) indicates that there are no compounds in the water table system with prediction limits that exceed the published IAC 567, Chapter 137 Statewide Standards. For all compounds the published IAC 567, Chapter 137 Statewide Standard are utilized as the GWPS.

3.4 STATISTICALLY SIGNIFICANT INCREASES (SSI)

The detected concentrations of each compound are compared to the site prediction limit for each respective compound calculated based on the background data set. A detected concentration for a compound that is more than the calculated site prediction limit is recorded as a Statistically Significant Increase (SSI) in wells designated as detection monitoring wells. Exceedances of the prediction limit in assessment or corrective action monitoring wells are not recorded as SSI but are instead compared to the groundwater protection standard.

There were no detection monitoring wells that had a recorded SSI in 2024.

Monitoring wells that had a recorded prediction limit exceedance are monitoring wells designated to the Assessment Monitoring System or the Corrective Action Monitoring System. The exceedances at Assessment/Corrective Action Monitoring wells are not required to be reported as SSI, but a running summary of recorded prediction limit exceedances (including the current year) is included in Appendix D.4. SSI are highlighted in brown in the Tables presented in Appendix F.

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

3.5 ASSESSMENT MONITORING SUMMARY

Assessment monitoring including the full Appendix II list has been performed at each well where a historic SSI is recorded. The on-going assessment monitoring is in accordance with requirements of IAC 567-113.10(6)"d"(2), which includes Appendix I plus all detected Appendix II compounds beyond the Appendix I list.

Compounds detected to date beyond the Appendix I list are limited to bis(2-ethylhexyl)phthalate and sulfide. The summary of detections to date is presented in Tables 3a and Table 3b. The full Appendix II sample collection events are highlighted in green.

Table 3a - Bis(2-ethylhexyl)phthalate (ug/L)

Date	MW-5	MW-7	MW-9	MW-16	MW-24	MW-25	MW-26	MW-32	MW-33
6/21/2011	*<8*	NT	NT	NT	NT	NT	NT	---	---
4/18/2012	*<8*	NT	NT	NT	NT	NT	NT	---	---
6/21/2012	NT	NT	NT	NT	NT	NT	NT	---	---
10/10/2012	NT	NT	NT	NT	NT	NT	NT	---	---
12/19/2012	NT	NT	NT	NT	NT	NT	NT	---	---
2/18/2013	NT	NT	NT	NT	NT	NT	NT	---	---
4/24/2013	NT	*<8*	NT	NT	NT	NT	NT	---	---
6/6/2013	NT	NT	NT	NT	NT	NT	NT	---	---
8/27/2013	NT	NT	NT	NT	NT	NT	NT	---	---
10/28/2013	NT	NT	NT	NT	NT	NT	NT	---	---
1/16/2014	NT	NT	NT	NT	NT	NT	NT	---	---
4/25/2014	NT	*<8*	NT	NT	NT	NT	NT	---	---
6/24/2014	NT	NT	NT	NT	NT	NT	NT	---	---
10/17/2014	NT	NT	NT	NT	NT	NT	NT	---	---
4/27/2015	NT	NT	NT	NT	NT	NT	NT	---	---
10/20/2015	***8.0***	*<8*	NT	NT	*<8*	NT	NT	---	---
4/11/2016	<8	NT	NT	NT	*<8*	NT	NT	---	---
7/13/2016	NT	NT	NT	NT	NT	NT	NT	---	---
10/11/2016	<8	NT	NT	NT	NT	NT	NT	---	---
4/13/2017	<6	NT	*<6*	NT	NT	***18.0***	NT	---	---
10/26/2017	<6	NT	NT	*<6*	NT	<6	***12.0***	NT	NT
4/11/2018	<6	NT	***6.0***	*<6*	NT	*<6*	*<6*	NT	NT
10/16/2018	<6	NT	<6	NT	NT	<6	<6	NT	NT
4/17/2019	NT	NT	<6	NT	NT	<6	**7.0**	NT	NT
10/15/2019	NT	NT	**12.0**	NT	NT	<6	<6	NT	NT
4/6/2020	NT	NT	<6	NT	NT	<6	<6	NT	NT
10/13/2020	<6	<6	<6	NT	NT	<6	<6	NT	NT
4/12/2021	NT	NT	**6.0**	NT	***12.0***	NT	<6	NT	NT
10/6/2021	NT	NT	<6	NT	<6	NT	<6	*<6*	NT
4/14/2022	NT	NT	<6	NT	<6	NT	NT	NT	NT
10/25/2022	NT	NT	**6.0**	NT	<6	NT	NT	*<6*	**55.0**
4/3/2023	NT	NT	*<6*	NT	NT	***15.0***	***18.0***	NT	<6
1016/2023	NT	NT	NT	NT	NT	<6	<6	NT	*<6*
4/22/2024	NT	NT	NT	NT	NT	NT	NT	NT	<6
10/7/2024	NT	NT	NT	NT	NT	NT	NT	NT	NT

Table 3b - Sulfide (ug/L)

Date	MW-5	MW-7	MW-9	MW-16	MW-24	MW-25	MW-26	MW-32	MW-33
6/21/2011	<100	NT	NT	NT	NT	NT	NT	---	---
4/18/2012	<100	NT	NT	NT	NT	NT	NT	---	---
10/10/2012	NT	NT	NT	NT	NT	NT	NT	---	---
12/19/2012	NT	NT	NT	NT	NT	NT	NT	---	---
2/18/2013	NT	NT	NT	NT	NT	NT	NT	---	---
4/24/2013	NT	<100	NT	NT	NT	NT	NT	---	---
6/6/2013	NT	NT	NT	NT	NT	NT	NT	---	---
8/27/2013	NT	NT	NT	NT	NT	NT	NT	---	---
10/28/2013	NT	NT	NT	NT	NT	NT	NT	---	---
1/16/2014	NT	NT	NT	NT	NT	NT	NT	---	---
4/25/2014	NT	<100	NT	NT	NT	NT	NT	---	---
10/17/2014	NT	NT	NT	NT	NT	NT	NT	---	---
4/27/2015	NT	NT	NT	NT	NT	NT	NT	---	---
10/20/2015	***240***	<100	NT	NT	<100	NT	NT	---	---
4/11/2016	**130**	NT	NT	NT	***120***	NT	NT	---	---
7/13/2016	NT	NT	NT	NT	NT	NT	NT	---	---
10/11/2016	**1700**	NT	NT	NT	<100	NT	NT	---	---
4/13/2017	<100	NT	<100	NT	<100	<100	NT	---	---
10/26/2017	**140**	NT	NT	**130**	<100	NT	<100	NT	NT
4/11/2018	<100	NT	<100	<100	<100	<100	<100	NT	NT
10/16/2018	<100	NT	NT	<100	<100	NT	NT	NT	NT
4/17/2019	<100	NT	NT	<100	NT	NT	NT	NT	NT
10/15/2019	<100	NT	NT	<100	NT	NT	NT	NT	NT
4/6/2020	**180**	NT	NT	<100	NT	NT	NT	NT	NT
10/13/2020	**300**	<100	NT	<100	NT	NT	NT	NT	NT
4/12/2021	**250**	NT	NT	NT	<100	NT	NT	NT	NT
10/6/2021	<100	NT	NT	NT	NT	NT	NT	<100	NT
4/14/2022	**660**	NT	NT	NT	NT	NT	NT	NT	NT
10/25/2022	<300	NT	NT	NT	NT	NT	NT	<300	<100
4/3/2023	<300	NT	<300	NT	NT	<100	<100	NT	NT
10/16/2023	**170**	NT	NT	NT	NT	NT	NT	NT	<100
4/22/2024	<100	NT	NT	NT	NT	NT	NT	NT	NT
10/7/2024	**280**	NT	NT	NT	NT	NT	NT	NT	NT

Sulfide testing will continue on a semi-annual basis at MW-5.

3.6 STATISTICALLY SIGNIFICANT LEVELS (SSL)

Confidence Intervals (the 95% lower confidence limits (LCL) and the 95% upper control limits (UCL)) are calculated 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 require the plume of impact to be defined in the horizontal and vertical directions and require completion of an Assessment of Corrective Measures (ACM).

The Confidence Intervals (95% LCL and 95% UCL) are calculated during each statistical evaluation based on the most recent four (4) data points. Recorded SSL are highlighted in yellow in the Tables in Appendix F. As mentioned previously, the SSI are highlighted in brown.

Based on the data presented in the Summary Tables in Appendix F *SSL are recorded for benzene and arsenic at MW-5.*

Note that cobalt had an apparent 95% LCL value that exceeded the GWPS in 2016 at MW-24. However, this single occurrence is not recorded as an SSL. The well head of MW-24 was found to be damaged and was allowing surface water to enter the well casing. The well head was repaired. The cobalt concentrations demonstrate that a consistent decline in the 95% LCL is recorded and is below the GWPS.

Monitoring Wells MW-7, MW-9, MW-24, MW-25, MW-26, MW-32, and MW-33 are retained in the Assessment Monitoring System based on the absence of SSL.

Based on completion of the remedy near MW-5, monitoring well MW-5 is designated as the Point of Compliance for Corrective Action Monitoring Well.

3.7 DELINEATION & ASSESSMENT OF CORRECTIVE MEASURES (ACM)

On January 13, 2018, the water quality in the step-out wells MW-34, MW-35, MW-36, and MW-37 that surround MW-5 indicated that arsenic and benzene were undetected and are reported as less than the laboratory reporting limit.

Step out wells to MW-5:

Well	Date	Compound	Result (ug/L)	GWPS (ug/L)
MW-34	1/13/2018	Arsenic	<4	10.0
MW-34	1/13/2018	Benzene	<1	5.0
MW-35	1/13/2018	Arsenic	<4	10.0
MW-35	1/13/2018	Benzene	<1	5.0
MW-36	1/13/2018	Arsenic	<4	10.0
MW-36	1/13/2018	Benzene	<1	5.0
MW-37	1/13/2018	Arsenic	<4	10.0
MW-37	1/13/2018	Benzene	<1	5.0

The initial water quality collected from the step out wells confirmed that water quality for the compounds of concern are within established limits.

The horizontal impact near MW-5 was delineated and reported to IDNR on March 5, 2018 (Doc #91714).

An Assessment of Corrective Measures (ACM) was completed and submitted to IDNR on September 24, 2018 (Doc #93290). The ACM was approved in Permit Revision #8 dated August 22, 2019 (Doc #95760).

A groundwater cut-off line coupled with nine (9) vertical subsurface gas vents were constructed outside the waste boundary in the vicinity of MW-5 as the approved remedy. Construction Certification (Doc # 98814) was submitted to IDNR on October 29, 2020.

MW-5 is designated as the Corrective Action Monitoring Well. The ACM tile outlet (ACM-Tile 1) is also monitored as a Corrective Action Monitoring Point. Outflow from ACM Tile 1 is tested semi-annually for arsenic and the Appendix I VOC compounds. Discharge from the ACM Tile 1 passes through the Passively Engineered Conveyance System (PECS) to treat any VOC impacted water.

3.8 CORRECTIVE ACTION MONITORING & EVALUATIONS

The evaluation of the Corrective Action Monitoring Well MW-5 is based on the Upper Confidence Limit (95% UCL), see the tables below. The 95% UCL values for arsenic and benzene currently remain above the GWPS (highlighted in green below), and MW-5 is required to remain in Corrective Action Monitoring.

Arsenic - Shallow Till/Fill System – MW-5

Well	Date	Compound	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS (ug/L)
MW5	10/11/16	Arsenic	28.8	4.0	15.354	34.196	10.0
MW5	4/13/17	Arsenic	22.0	4.0	15.807	27.693	10.0
MW5	10/25/17	Arsenic	27.0	4.0	18.475	29.625	10.0
MW5	4/11/18	Arsenic	13.2	4.0	14.532	30.968	10.0
MW5	10/16/18	Arsenic	37.5	4.0	12.997	36.853	10.0
MW5	4/17/19	Arsenic	27.1	4.0	14.474	37.926	10.0
MW5	10/15/19	Arsenic	59.3	4.0	11.423	57.127	10.0
MW5	4/6/2020	Arsenic	28.5	4.0	20.614	55.586	10.0
MW5	10/13/2020	Arsenic	30.0	4.0	18.076	54.374	10.0
MW5	4/12/2021	Arsenic	56.2	4.0	24.074	62.926	10.0
MW5	10/6/2021	Arsenic	17.9	4.0	13.996	52.304	10.0
MW5	4/15/2022	Arsenic	5.3	4.0	1.805	52.895	10.0
MW5	10/25/2022	Arsenic	9.1	4.0	0.000	49.558	10.0
MW5	4/3/2023	Arsenic	21.4	4.0	4.613	22.237	10.0
MW5	10/16/2023	Arsenic	13.7	4.0	4.226	20.524	10.0
MW5	4/22/2024	Arsenic	15.0	4.0	8.829	20.771	10.0
MW5	10/7/2024	Arsenic	10.6	4.0	9.832	20.518	10.0

Benzene - Shallow Till/Fill System – MW-5

Well	Date	Compound	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS (ug/L)
MW5	10/20/15	Benzene	6.7	1.0	6.316	7.164	5.0
MW5	4/11/16	Benzene	4.6	1.0	4.876	7.524	5.0
MW5	10/11/16	Benzene	5.7	1.0	4.698	7.397	5.0
MW5	4/13/17	Benzene	4.7	1.0	4.267	6.583	5.0
MW5	10/25/17	Benzene	6.2	1.0	4.384	6.216	5.0
MW5	4/11/18	Benzene	8.7	1.0	4.323	8.237	5.0
MW5	10/16/18	Benzene	5.9	1.0	4.399	8.351	5.0
MW5	4/17/19	Benzene	6.6	1.0	5.361	8.339	5.0
MW5	10/15/19	Benzene	5.6	1.0	5.056	8.344	5.0
MW5	4/6/2020	Benzene	5.6	1.0	5.370	6.480	5.0
MW5	10/13/2020	Benzene	6.3	1.0	5.430	6.620	5.0
MW5	4/12/2021	Benzene	5.7	1.0	5.404	6.196	5.0
MW5	10/6/2021	Benzene	4.5	1.0	4.634	6.407	5.0
MW5	4/15/2022	Benzene	6.0	1.0	4.697	6.553	5.0
MW5	10/25/2022	Benzene	5.4	1.0	4.638	6.162	5.0
MW5	4/3/2023	Benzene	6.5	1.0	4.588	6.612	5.0
MW5	10/16/2023	Benzene	4.5	1.0	4.588	6.612	5.0
MW5	4/22/2024	Benzene	3.7	1.0	3.609	6.441	5.0
MW5	10/7/2024	Benzene	5.2	1.0	3.579	6.371	5.0

ACM Tile 1 does not discharge impacted water to the ground surface (Table 11) and the PECS is demonstrated to be effective as all VOC at sampling point PECS-1 are undetected and reported as below the MRL (Table 11).

Additional Corrective Action Monitoring includes the on-going quarterly monitoring of Vents 19-27 (Table 12) for the % Lower Explosive Limits (LEL) and the annual monitoring of MW-5 for dissolved methane, ethane, ethene, and alkalinity and pH (Table 13).

Table 11, Table 12, and Table 13 are included in Appendix G to summarize the on-going Corrective Action Monitoring Plan (CAMP) results.

3.9 MONITORING WELL MAINTENANCE PERFORMANCE EVALUATION

Monitoring Well Maintenance Performance Reevaluation activities associated with the HMSP monitoring wells are discussed in the information presented in Appendix A.

3.10 LEACHATE COLLECTION SYSTEM PERFORMANCE EVALUATION

See Appendix H.

3.11 GAS MONITORING EVALUATION

See Appendix I.

Section 4.0 Recommendations

Continue semi-annual detection/assessment/corrective action monitoring in accordance with IAC 567, Chapter 113.10(5), 113.10(6), and 113.10(9) as summarized in Table 1.

Sulfide testing will continue on a semi-annual basis at MW-5.

SSL continue to persist at monitoring well MW-5. MW-5 should remain the designated Point of Compliance Corrective Action Monitoring Well.

Leachate monitoring should continue in accordance with the Permit. The leachate collection lines should be cleaned in 2027.

Gas monitoring should continue in accordance with the Permit.

Figures

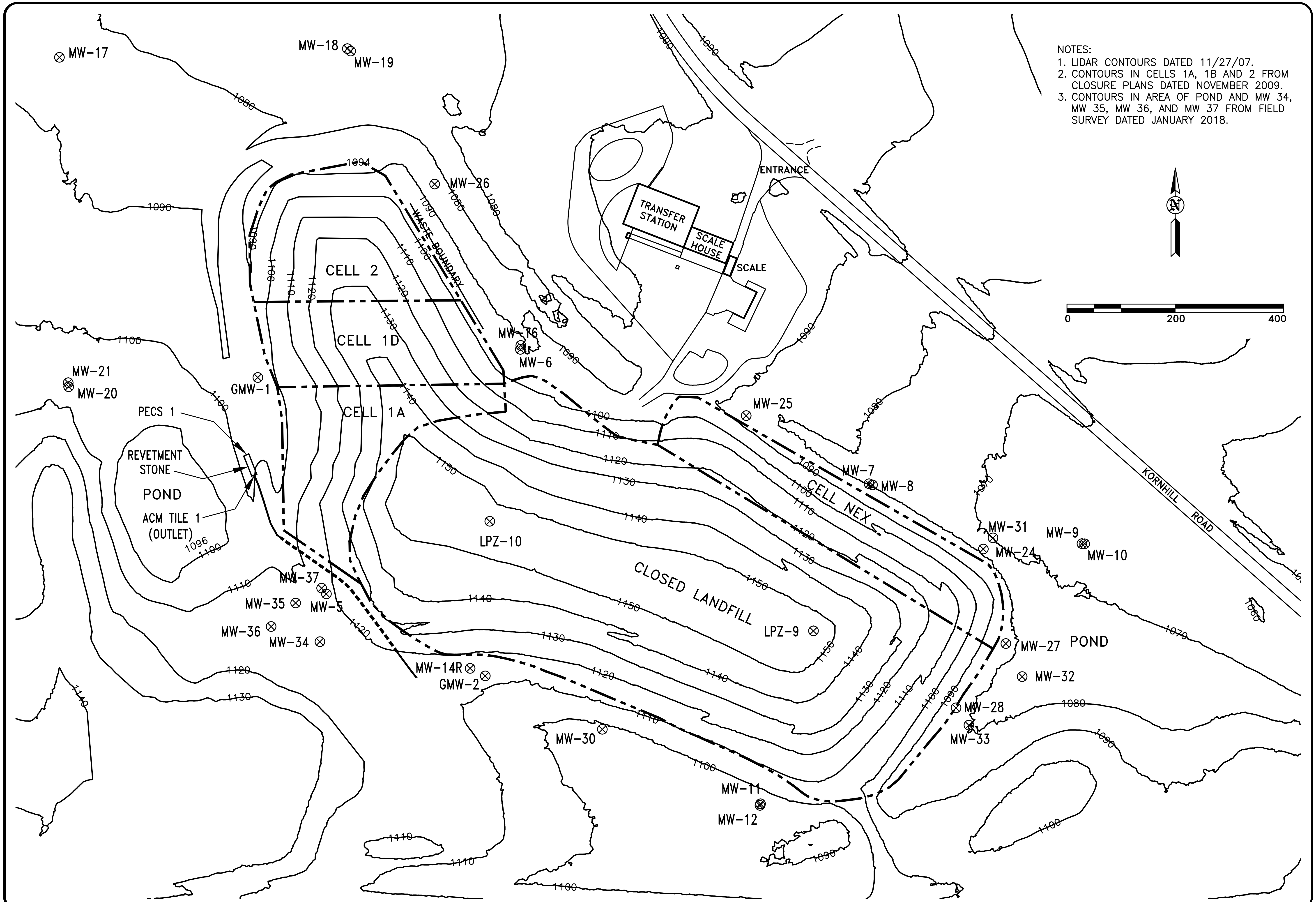


FIGURE: 1

NO.	REVISION	DATE

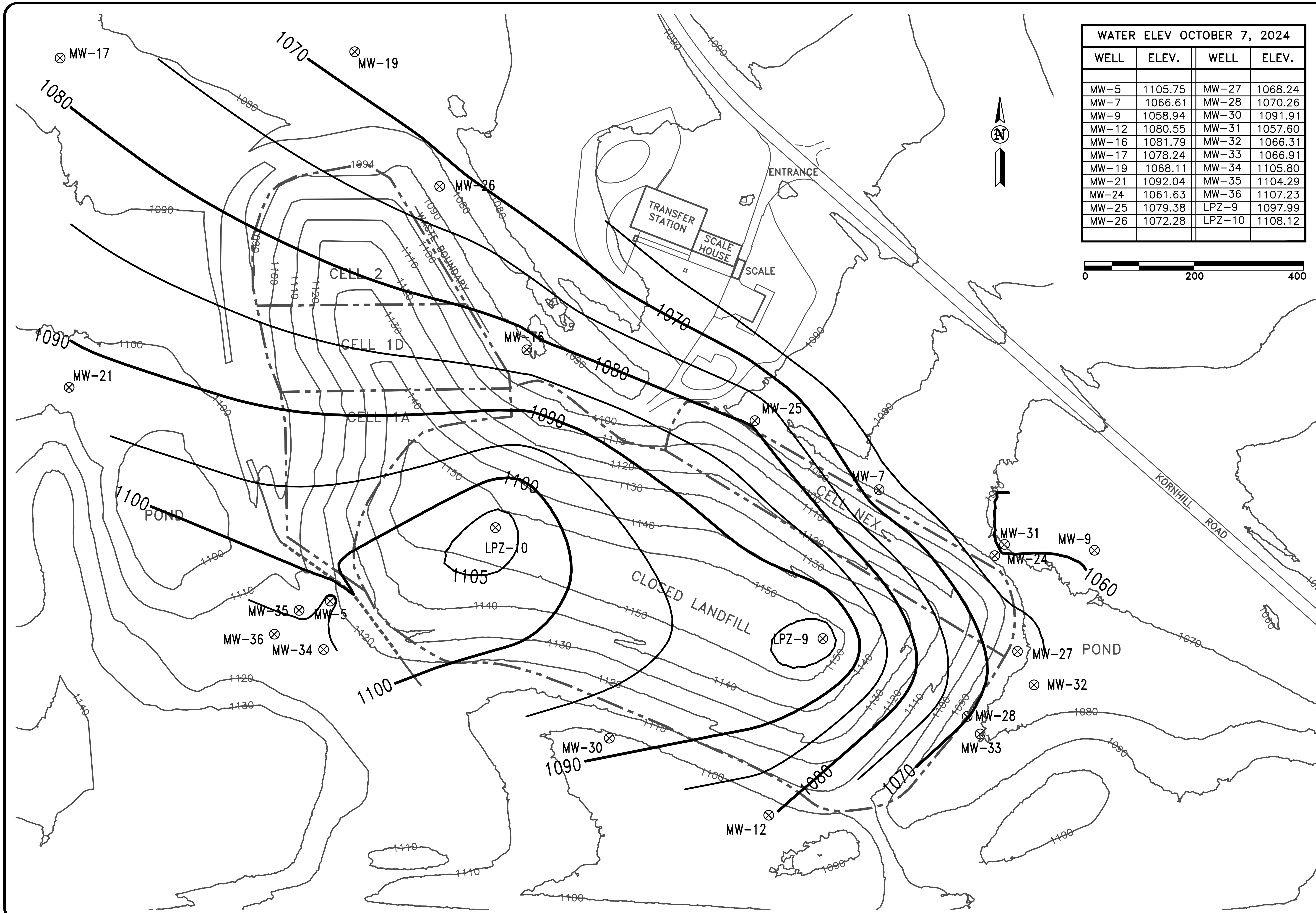
DRAWN	PROJECT NO.	DATE
DRA	6041	1-17-25

SITE PLAN

FAYETTE COUNTY SANITARY LANDFILL
FAYETTE, IOWA

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

HLW Engineering Group



WATER ELEV OCTOBER 7, 2024			
WELL	ELEV.	WELL	ELEV.
MW-5	1105.75	MW-27	1068.24
MW-7	1066.61	MW-28	1070.26
MW-9	1058.94	MW-30	1091.91
MW-12	1080.55	MW-31	1057.60
MW-16	1081.79	MW-32	1066.31
MW-17	1078.24	MW-33	1066.91
MW-19	1068.11	MW-34	1105.80
MW-21	1092.04	MW-35	1104.29
MW-24	1061.63	MW-36	1107.23
MW-25	1079.38	LPZ-9	1097.99
MW-26	1072.28	LPZ-10	1108.12

FIGURE: 2

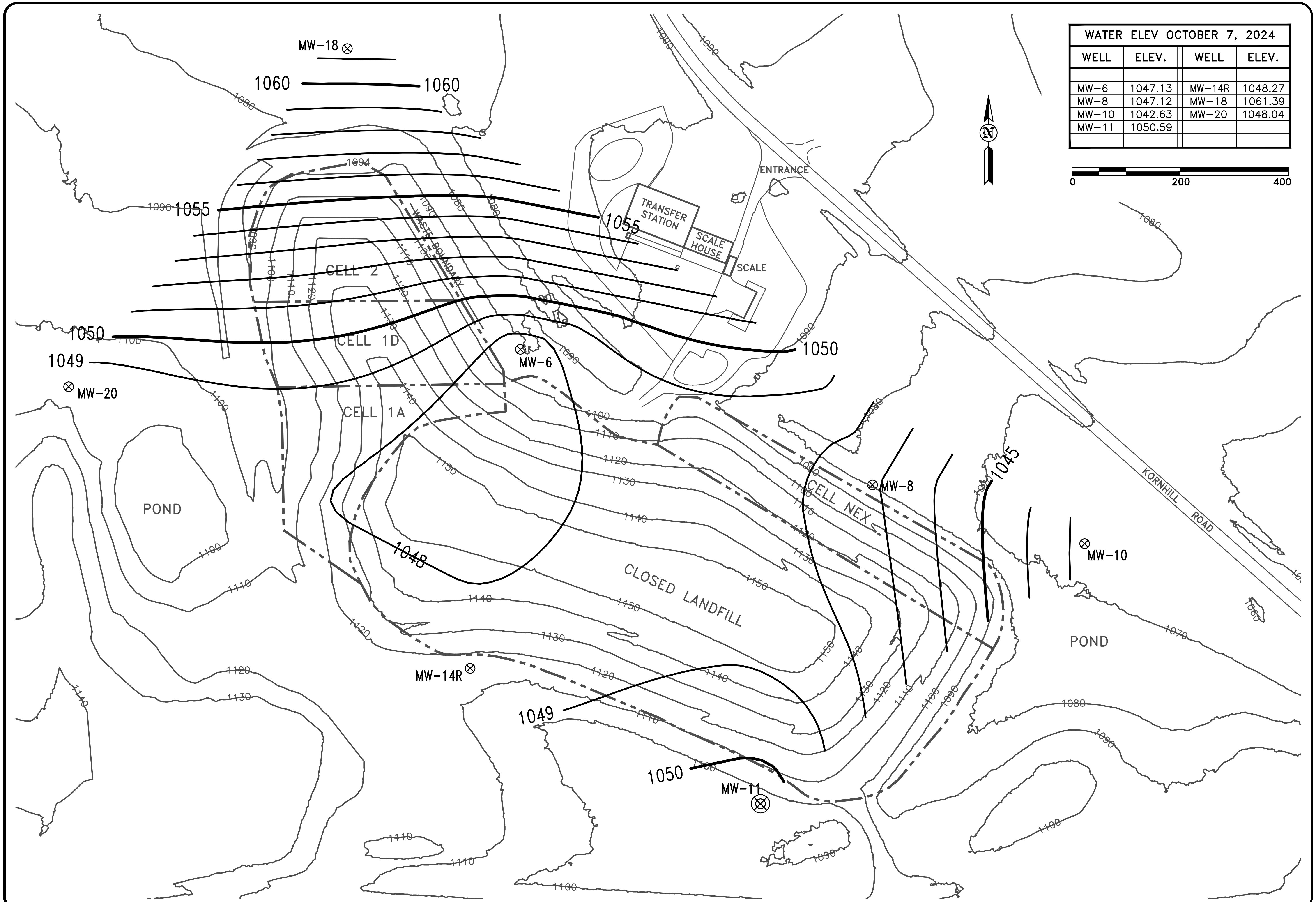
REVISION	NO.	DATE
DRAWN DRA	PROJECT NO. 6041	DATE 1-17-25

WATER TABLE CONTOUR MAP

FAYETTE COUNTY SANITARY LANDFILL
FAYETTE, IOWA

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

HLW
HLW Engineering Group



WATER ELEV OCTOBER 7, 2024			
WELL	ELEV.	WELL	ELEV.
MW-6	1047.13	MW-14R	1048.27
MW-8	1047.12	MW-18	1061.39
MW-10	1042.63	MW-20	1048.04
MW-11	1050.59		

FIGURE: 3

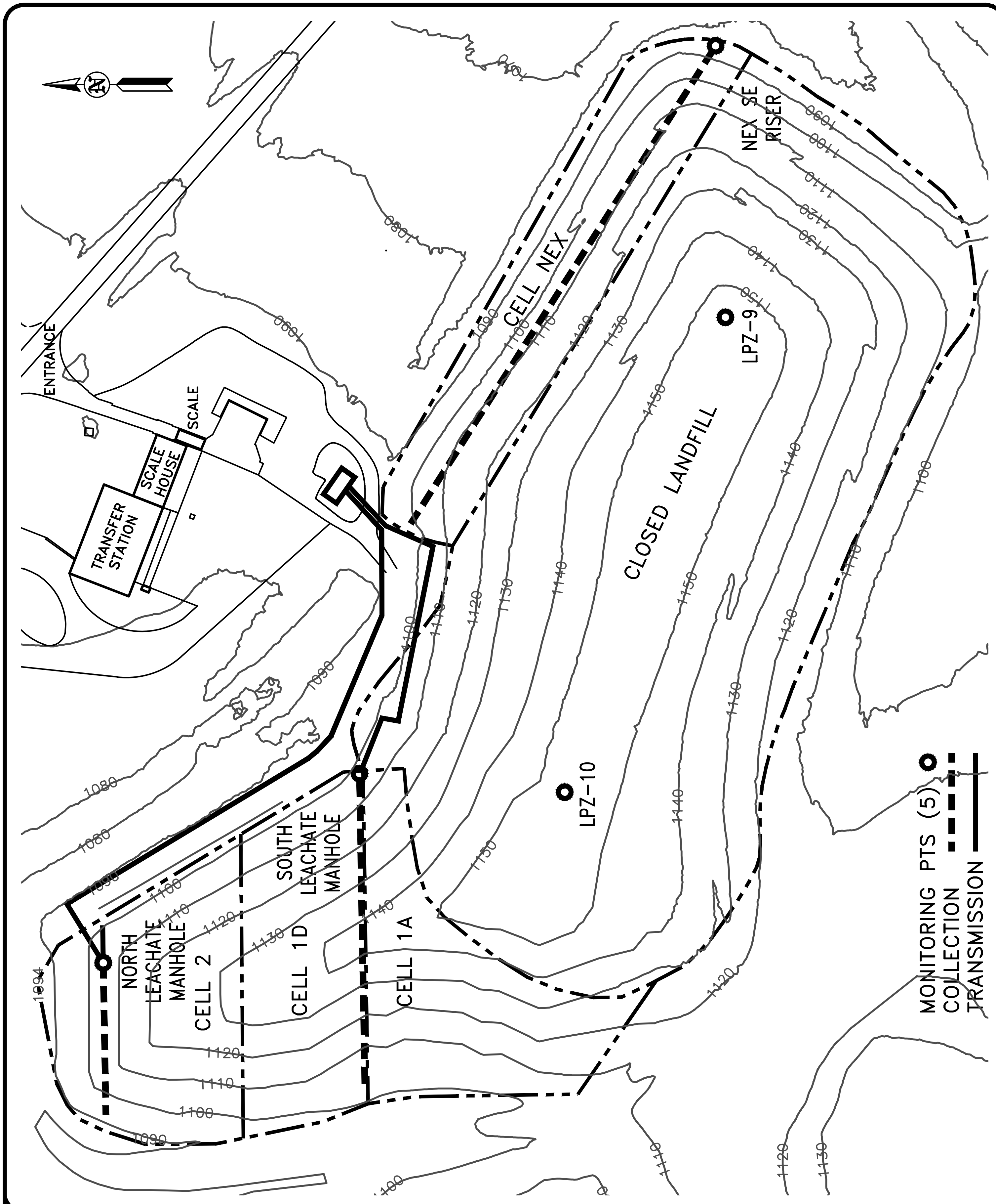
REVISION | NO. | DATE

DRAWN DRA | PROJECT NO. 6041 | DATE 1-17-25

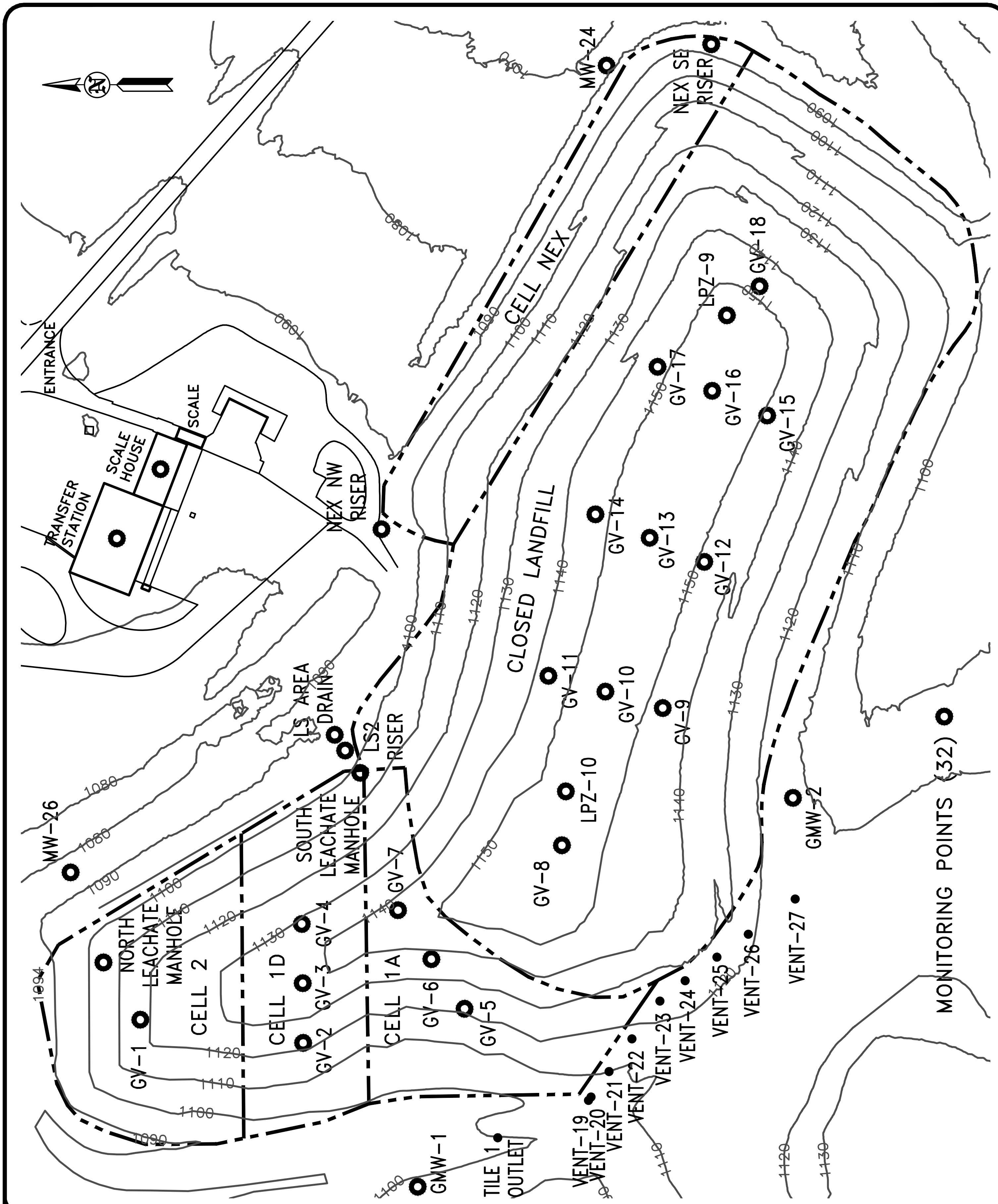
BEDROCK AQUIFER CONTOUR MAP

FAYETTE COUNTY SANITARY LANDFILL
FAYETTE, IOWA

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



HLW Engineering Group	LEACHATE SYSTEM AND MONITORING POINTS FAYETTE COUNTY SANITARY LANDFILL FAYETTE, IOWA	FIGURE:		4
		REVISION	NO.	DATE
		DRAWN DRA	PROJECT NO. 6041	DATE 1-17-25



HLW
HLW Engineering Group

GAS MONITORING POINTS

FAYETTE COUNTY SANITARY LANDFILL
FAYETTE, IOWA

FIGURE: 5		
REVISION	NO.	DATE
DRAWN DRA	PROJECT NO. 6041	DATE 1-17-25

Appendix A
Monitoring Well Maintenance and Performance Re-evaluation

MONITORING WELL MAINTENANCE AND PERFORMANCE REEVALUATION

The table below outlines the status of well performance and maintenance activities as required by IAC 567-113.10(2) f.

Landfill Assessment

Years	2014	2015	2016	2017	2018	2019
Annual water-quality report	X	X	X	X	X	X
High and low water levels	X	X	X	X	X	X
Six-month water levels	X	X	X	X	X	X
Well-depth measurement	X	X	X	X	X	X
Evaluation of recharge rates and chemistry			X		X	

X, completed; O, scheduled.

Landfill Assessment

Years	2020	2021	2022	2023	2024	2025
Annual water-quality report	X	X	X	X	X	O
High and low water levels	X	X	X	X	X	O
Six-month water levels	X	X	X	X	X	O
Well-depth measurement	X	X	X	X	X	O
Evaluation of recharge rates and chemistry	X		X		X	

X, completed; O, scheduled.

Monitoring Well Performance Reevaluation is performed in accordance with IAC-567 113.10(2)f.

High & Low Water Levels
Water elevation data is included in the attached Tables in Appendix A1. The maximum depth to water and the minimum depth to water are included in the table. A Water Table Contour Map (Figure 2) dated October 7, 2024 is included with this report. The Water Table Contour Map illustrates the water table surface and the effects of the topography.

Figure 3, Bedrock Aquifer Contour Map illustrates the potentiometric surface of the confined bedrock aquifer at the site on October 7, 2024.

Well Depth & Sedimentation
Well depth measurements were made on October 7, 2024. Review of the measurement data included on the field measurement forms in Appendix B indicate that well sedimentation is estimated to be less than one (1) foot at all site monitoring wells.

Well Recharge Rates & Chemistry
The 1991 James M. Montgomery Hydrogeological Investigation Report (Doc# 3576) indicates that the horizontal hydraulic conductivity ranged from 5.24x10-6 cm/sec to 2.41x10-2 cm/sec.

Purging at site monitoring wells on April 22, 2024 indicate that each well experienced moderate to substantial draw-down and confirms the relatively low hydraulic conductivity values for the till/loess wells. Recovery of each well began immediately upon completion of purging. Full recovery was generally within 3 to 8 hours. It was noted that MW-16 requires more than 24 hours to fully recover following well purging activities.

Based on the information presented herein, recharge to the individual wells remained sufficient to promote collection of representative water quality samples and the wells were functioning as intended. Monitoring well recharge reevaluation is due biennially according to 113.10(2)f and should be evaluated again in 2026.

Based on the apparent static condition of the water table across the site, it appears that the semi-annual frequency of water elevation data is sufficient to adequately monitor the hydrologic condition of the site. Based on the information discussed in this Appendix, the HMSP wells are situated appropriately to detect potential impact by the landfill.

Appendix A.1 - Historic Water Elevation Data

2024 Water Elevation Measurement Data

MW	TOP OF CASING	4/22/2024 DEPTH TO WATER	4/22/2024 WATER ELEVATION	10/7/2024 DEPTH TO WATER	10/7/2024 WATER ELEVATION	MAX DEPTH MEASUREMENT	MIN DEPTH MEASUREMENT
WATER ELEVATIONS							
MW-5	1118.94	3.38	1115.56	13.19	1105.75	13.19	3.38
MW-6	1094.63	45.73	1048.9	47.5	1047.13	47.5	45.73
MW-7	1084.5	8.13	1076.37	17.89	1066.61	17.89	8.13
MW-8	1083.37	34.52	1048.85	36.25	1047.12	36.25	34.52
MW-9	1069.79	2.4	1067.39	10.85	1058.94	10.85	2.4
MW-10	1070.34	20.75	1049.59	27.71	1042.63	27.71	20.75
MW-11	1099.28	46.84	1052.44	48.69	1050.59	48.69	46.84
MW-12	1099.35	8.19	1091.16	18.8	1080.55	18.8	8.19
MW-14R	1114.32	64.37	1049.95	66.05	1048.27	66.05	64.37
MW-16	1094.38	9.32	1085.06	12.59	1081.79	12.59	9.32
MW-17	1086.49	6.97	1079.52	8.25	1078.24	8.25	6.97
MW-18	1076.9	12.95	1063.95	15.51	1061.39	15.51	12.95
MW-19	1077.06	4.14	1072.92	8.95	1068.11	8.95	4.14
MW-20	1108.01	58.37	1049.64	59.97	1048.04	59.97	58.37
MW-21	**1107.25**	12.25	1095	15.21	1092.04	15.21	12.25
MW-24	1082.08	14.44	1067.64	20.45	1061.63	20.45	14.44
MW-25	1089	6.42	1082.58	9.62	1079.38	9.62	6.42
MW-26	1086.93	9.71	1077.22	14.65	1072.28	14.65	9.71
MW-27	1083.5	9.76	1073.74	15.26	1068.24	15.26	9.76
MW-28	1083.5	7.95	1075.55	13.24	1070.26	13.24	7.95
OW-30	1101.77	3.64	1098.13	9.86	1091.91	9.86	3.64
MW-31	1071.7	4.28	1067.42	14.1	1057.60	14.1	4.28
MW-32	1078.35	5.17	1073.18	12.04	1066.31	12.04	5.17
MW-33	1082.11	3.3	1078.81	15.2	1066.91	15.2	3.3
MW-34	1116.93	4.81	1112.12	11.13	1105.80	11.13	4.81
MW-35	1116.1	6.35	1109.75	11.81	1104.29	11.81	6.35
MW-36	1117.97	5.65	1112.32	10.74	1107.23	10.74	5.65
MW-37	1117.25	9.45	1107.8	13.26	1103.99	13.26	9.45

= Bedrock Well

= Water Table Well

= Water Table Well (deep in till)

2023 Water Elevation Measurement Data

MW	TOP OF CASING	4/3/2023 DEPTH TO WATER	4/3/2023 WATER ELEVATION	10/16/2023 DEPTH TO WATER	10/16/2023 WATER ELEVATION	MAX DEPTH MEASUREMENT	MIN DEPTH MEASUREMENT
WATER ELEVATIONS							
MW-5	1118.94	3.22	1115.72	12.08	1106.86	12.08	3.22
MW-6	1094.63	45.58	1049.05	48.18	1046.45	48.18	45.58
MW-7	1084.5	8.1	1076.4	17.2	1067.30	17.2	8.1
MW-8	1083.37	34.38	1048.99	36.89	1046.48	36.89	34.38
MW-9	1069.79	2.27	1067.52	11.03	1058.76	11.03	2.27
MW-10	1070.34	20.55	1049.79	23.3	1047.04	23.3	20.55
MW-11	1099.28	46.75	1052.53	49.39	1049.89	49.39	46.75
MW-12	1099.35	7.73	1091.62	17.04	1082.31	17.04	7.73
MW-14R	1114.32	65.78	1048.54	66.77	1047.55	66.77	65.78
MW-16	1094.38	8.91	1085.47	12.29	1082.09	12.29	8.91
MW-17	1086.49	6.76	1079.73	7.9	1078.59	7.9	6.76
MW-18	1076.9	12.97	1063.93	14.95	1061.95	14.95	12.97
MW-19	1077.06	4.25	1072.81	8.58	1068.48	8.58	4.25
MW-20	1108.01	58.25	1049.76	60.63	1047.38	60.63	58.25
MW-21	**1107.25**	5.06	1102.19	16.7	1090.55	16.7	5.06
MW-24	1082.08	14.34	1067.74	20.64	1061.44	20.64	14.34
MW-25	1089	6.46	1082.54	6.92	1082.08	6.92	6.46
MW-26	1086.93	9.45	1077.48	13.45	1073.48	13.45	9.45
MW-27	1083.5	9.18	1074.32	15.88	1067.62	15.88	9.18
MW-28	1083.5	7.36	1076.14	14	1069.50	14	7.36
OW-30	1101.77			11.5	1090.27	11.5	11.5
MW-31	1071.7	4.19	1067.51	13.68	1058.02	13.68	4.19
MW-32	1078.35	4.74	1073.61	12.69	1065.66	12.69	4.74
MW-33	1082.11	3.19	1078.92	15.09	1067.02	15.09	3.19
MW-34	1116.93	4.3	1112.63	11.47	1105.46	11.47	4.3
MW-35	1116.1	5.95	1110.15	11.73	1104.37	11.73	5.95
MW-36	1117.97	5.05	1112.92	11.03	1106.94	11.03	5.05
MW-37	1117.25	9.61	1107.64	14.56	1102.69	14.56	9.61

= Bedrock Well

= Water Table Well

= Water Table Well (deep in till)

2022 Water Elevation Measurement Data

MW	TOP OF CASING	4/15/2022 DEPTH TO WATER	4/15/2022 WATER ELEVATION	10/25/2022 DEPTH TO WATER	10/25/2022 WATER ELEVATION	MAX DEPTH MEASUREMENT	MIN DEPTH MEASUREMENT
WATER ELEVATIONS							
MW-5	1118.94	4.55	1114.39	13.83	1105.11	13.83	4.55
MW-6	1094.63	43.91	1050.72	47.4	1047.23	47.4	43.91
MW-7	1084.5	8.17	1076.33	15.32	1069.18	15.32	8.17
MW-8	1083.37	32.76	1050.61	36.19	1047.18	36.19	32.76
MW-9	1069.79	2.72	1067.07	9.25	1060.54	9.25	2.72
MW-10	1070.34	19.13	1051.21	22.51	1047.83	22.51	19.13
MW-11	1099.28	45.31	1053.97	48.48	1050.80	48.48	45.31
MW-12	1099.35	8.05	1091.3	14.69	1084.66	14.69	8.05
MW-14R	1114.32	64.09	1050.23	68.42	1045.90	68.42	64.09
MW-16	1094.38	8.69	1085.69	12.79	1081.59	12.79	8.69
MW-17	1086.49	7.01	1079.48	7.8	1078.69	7.8	7.01
MW-18	1076.9	12.22	1064.68	15.08	1061.82	15.08	12.22
MW-19	1077.06	4.16	1072.9	8.47	1068.59	8.47	4.16
MW-20	1108.01	56.82	1051.19	59.86	1048.15	59.86	56.82
MW-21	**1107.25**	8.48	1098.77	16.42	1090.83	16.42	8.48
MW-24	1082.08	14.29	1067.79	19.65	1062.43	19.65	14.29
MW-25	1089	6.62	1082.38	9.5	1079.50	9.5	6.62
MW-26	1086.93	10.19	1076.74	13.82	1073.11	13.82	10.19
MW-27	1083.5	9.27	1074.23	14.5	1069.00	14.5	9.27
MW-28	1083.5	6.93	1076.57	12.42	1071.08	12.42	6.93
OW-30	1101.77	5.00	1096.77	10.21	1091.56	10.21	5
MW-31	1071.7	4.14	1067.56	11.26	1060.44	11.26	4.14
MW-32	1078.35	4.86	1073.49	11.17	1067.18	11.17	4.86
MW-33	1082.11	4.1	1078.01	12.3	1069.81	12.3	4.1
MW-34	1116.93	4.46	1112.47	11.19	1105.74	11.19	4.46
MW-35	1116.1	6.24	1109.86	12.03	1104.07	12.03	6.24
MW-36	1117.97	5.5	1112.47	11.05	1106.92	11.05	5.5
MW-37	1117.25	10.16	1107.09	13.88	1103.37	13.88	10.16

= Bedrock Well

= Water Table Well

= Water Table Well (deep in till)

2021 Water Elevation Measurement Data

MW	TOP OF CASING	4/12/2021 DEPTH TO WATER	4/12/2021 WATER ELEVATION	10/6/2021 DEPTH TO WATER	10/6/2021 WATER ELEVATION	MAX DEPTH MEASUREMENT	MIN DEPTH MEASUREMENT
WATER ELEVATIONS							
MW-5	1118.94	4.95	1113.99	11.8	1107.14	11.8	4.95
MW-6	1094.63	44.85	1049.78	45.64	1048.99	45.64	44.85
MW-7	1084.5	8.15	1076.35	11.7	1072.80	11.7	8.15
MW-8	1083.37	33.78	1049.59	34.47	1048.90	34.47	33.78
MW-9	1069.79	2.66	1067.13	6.29	1063.50	6.29	2.66
MW-10	1070.34	18.89	1051.45	20.81	1049.53	20.81	18.89
MW-11	1099.28	45.96	1053.32	46.91	1052.37	46.91	45.96
MW-12	1099.35	8.28	1091.07	10.59	1088.76	10.59	8.28
MW-14R	1114.32	63.57	1050.75	64.37	1049.95	64.37	63.57
MW-16	1094.38	8.82	1085.56	10.89	1083.49	10.89	8.82
MW-17	1086.49	7.16	1079.33	7.34	1079.15	7.34	7.16
MW-18	1076.9	12.54	1064.36	13.12	1063.78	13.12	12.54
MW-19	1077.06	4.03	1073.03	5.88	1071.18	5.88	4.03
MW-20	1108.01	57.65	1050.36	58.28	1049.73	58.28	57.65
MW-21	**1107.25**	5.87	1101.38	13.03	1094.22	13.03	5.87
MW-24	1082.08	14.46	1067.62	17.25	1064.83	17.25	14.46
MW-25	1089	6.7	1082.3	8.22	1080.78	8.22	6.7
MW-26	1086.93	10.21	1076.72	12.19	1074.74	12.19	10.21
MW-27	1083.5	9.31	1074.19	11.69	1071.81	11.69	9.31
MW-28	1083.5	6.89	1076.61	9.41	1074.09	9.41	6.89
OW-30	1101.77	3.46	1098.31	5.78	1095.99	5.78	3.46
MW-31	1071.7	4.2	1067.5	7.9	1063.80	7.9	4.2
MW-32	1078.35	4.87	1073.48	7.44	1070.91	7.44	4.87
MW-33	1082.11	3.07	1079.04	5.92	1076.19	5.92	3.07
MW-34	1116.93	4.62	1112.31	9.17	1107.76	9.17	4.62
MW-35	1116.1	6.47	1109.63	10.51	1105.59	10.51	6.47
MW-36	1117.97	5.25	1112.72	9.41	1108.56	9.41	5.25
MW-37	1117.25	10.01	1107.24	12.39	1104.86	12.39	10.01

= Bedrock Well

= Water Table Well

= Water Table Well (deep in till)

2020 Water Elevation Measurement Data

MW	TOP OF CASING	4/6/2020 DEPTH TO WATER	4/6/2020 WATER ELEVATION	10/13/2020 DEPTH TO WATER	10/13/2020 WATER ELEVATION	MAX DEPTH MEASUREMENT	MIN DEPTH MEASUREMENT
WATER ELEVATIONS							
MW-5	1118.94	3.38	1115.56	11.5	1107.44	11.5	3.38
MW-6	1094.63	43.73	1050.9	47.03	1047.60	47.03	43.73
MW-7	1084.5	8.25	1076.25	11.75	1072.75	11.75	8.25
MW-8	1083.37	32.44	1050.93	35.86	1047.51	35.86	32.44
MW-9	1069.79	2.66	1067.13	6.94	1062.85	6.94	2.66
MW-10	1070.34	18.82	1051.52	21.91	1048.43	21.91	18.82
MW-11	1099.28	45.03	1054.25	47.89	1051.39	47.89	45.03
MW-12	1099.35	8.24	1091.11	11.51	1087.84	11.51	8.24
MW-14R	1114.32	63.56	1050.76	65.52	1048.80	65.52	63.56
MW-16	1094.38	8.25	1086.13	11.04	1083.34	11.04	8.25
MW-17	1086.49	7.15	1079.34	7.71	1078.78	7.71	7.15
MW-18	1076.9	12.4	1064.5	14.25	1062.65	14.25	12.4
MW-19	1077.06	3.98	1073.08	6.48	1070.58	6.48	3.98
MW-20	1108.01	56.55	1051.46	59.47	1048.54	59.47	56.55
MW-21	1107.42	5.42	1102	15.01	1092.41	15.01	5.42
MW-24	1082.08	14.21	1067.87	17.5	1064.58	17.5	14.21
MW-25	1089	6.83	1082.17	8.45	1080.55	8.45	6.83
MW-26	1086.93	9.92	1077.01	12.18	1074.75	12.18	9.92
MW-27	1083.5	9.03	1074.47	12.35	1071.15	12.35	9.03
MW-28	1083.5	6.55	1076.95	10.29	1073.21	10.29	6.55
OW-30	1101.77	3.23	1098.54	6.81	1094.96	6.81	3.23
MW-31	1071.7	4.2	1067.5	8.19	1063.51	8.19	4.2
MW-32	1078.35	4.7	1073.65	8.52	1069.83	8.52	4.7
MW-33	1082.11	3.27	1078.84	8.03	1074.08	8.03	3.27
MW-34	1116.93	4.27	1112.66	9.07	1107.86	9.07	4.27
MW-35	1116.1	5.42	1110.68	10.38	1105.72	10.38	5.42
MW-36	1117.97	4.7	1113.27	9.42	1108.55	9.42	4.7
MW-37	1117.25	7.24	1110.01	12.03	1105.22	12.03	7.24

= Bedrock Well

= Water Table Well

= Water Table Well (deep in till)

2015 Water Elevation Measurement Data

MW	TOP OF CASING	Jan-15 DEPTH TO WATER	Jan-15 WATER ELEVATION	Feb-15 DEPTH TO WATER	Feb-15 WATER ELEVATION	Mar-15 DEPTH TO WATER	Mar-15 WATER ELEVATION	Apr-15 DEPTH TO WATER	Apr-15 WATER ELEVATION	May-15 DEPTH TO WATER	May-15 WATER ELEVATION	Jun-15 DEPTH TO WATER	Jun-15 WATER ELEVATION	Jul-15 DEPTH TO WATER	Jul-15 WATER ELEVATION	Aug-15 DEPTH TO WATER	Aug-15 WATER ELEVATION	Sep-15 DEPTH TO WATER	Sep-15 WATER ELEVATION	Oct-15 DEPTH TO WATER	Oct-15 WATER ELEVATION	Nov-15 DEPTH TO WATER	Nov-15 WATER ELEVATION	Dec-15 DEPTH TO WATER	Dec-15 WATER ELEVATION	MAX DEPTH MEASUREMENT	MIN DEPTH MEASUREMENT
WATER ELEVATIONS																											
MW-5	1118.94	10.6	1108.34	10.6	1108.34	10.1	1108.84	5	1113.94	5.55	1113.39	6.35	1112.59	6.35	1112.59	6.5	1112.44	6.2	1112.74	11.17	1107.77	6.1	1112.84	6.2	1112.74	11.17	5
MW-6	1094.63	45.7	1048.93	46.1	1048.53	45.8	1048.83	46.77	1047.86	45.5	1049.13	44.1	1050.53	44.1	1050.53	44.6	1050.03	44.1	1050.53	47.25	1047.38	43.9	1050.73	44.1	1050.53	47.25	43.9
MW-7	1084.5	9.2	1075.3	9.1	1075.4	9.3	1075.2	8.34	1076.16	7.9	1076.6	9.6	1074.9	9.6	1074.9	8.9	1075.6	8.6	1075.9	11.34	1073.16	8.2	1076.3	8.6	1075.9	11.34	7.9
MW-8	1083.37	35.8	1047.57	35.6	1047.77	35.6	1047.77	35.57	1047.8	34.29	1049.08	32.9	1050.47	32.9	1050.47	33.1	1050.27	32.7	1050.67	36.05	1047.32	32.5	1050.87	32.6	1050.77	36.05	32.5
MW-9	1069.79	4.5	1065.29	4.9	1064.89	5.1	1064.69	2.76	1067.03	2.55	1067.24	3.65	1066.14	3.65	1066.14	4.2	1065.59	3.9	1065.89	7.4	1062.39	3.6	1066.19	3.6	1066.19	7.4	2.55
MW-10	1070.34	NR	NR	22.8	1047.54	22.6	1047.74	21.43	1048.91	20.26	1050.08	19.05	1051.29	19.05	1051.29	20.6	1049.74	20.6	1049.74	22.28	1048.06	20.2	1050.14	19.8	1050.54	22.8	19.05
MW-11	1099.28	48.2	1051.08	48.3	1050.98	48.1	1051.18	47.52	1051.76	46.25	1053.03	45.3	1053.98	45.3	1053.98	45.8	1053.48	45.9	1053.38	48.25	1051.03	45.3	1053.98	45.2	1054.08	48.3	45.2
MW-12	1099.35	8.7	1090.65	8.8	1090.55	8.6	1090.75	8.47	1090.88	8.18	1091.17	9.55	1089.8	9.55	1089.8	8.4	1090.95	8.2	1091.15	11.23	1088.12	7.9	1091.45	8.4	1090.95	11.23	7.9
MW-14R	1114.32	63.6	1050.72	63.4	1050.92	63.3	1051.02	65.45	1048.87	64.15	1050.17	62.8	1051.52	62.8	1051.52	62.8	1051.52	62.6	1051.72	65.93	1048.39	62.3	1052.02	62.4	1051.92	65.93	62.3
MW-16	1094.38	10.2	1084.18	10.4	1083.98	10.2	1084.18	10.26	1084.12	9.55	1084.83	9.6	1084.78	9.6	1084.78	9.6	1084.78	9.3	1085.08	12.15	1082.23	8.7	1085.68	9.1	1085.28	12.15	8.7
MW-17	1086.49	7.7	1078.79	7.8	1078.69	7.7	1078.79	6.5	1079.99	6.27	1080.22	6.65	1079.84	6.65	1079.84	6.7	1079.79	6.8	1079.69	8.33	1078.16	6.4	1080.09	6.5	1079.99	8.33	6.27
MW-18	1076.9	14.2	1062.7	14.6	1062.3	14.4	1062.5	13.6	1063.3	13.1	1063.8	12.05	1064.85	12.05	1064.85	12.6	1064.3	12.4	1064.5	14.84	1062.06	12.6	1064.3	12.4	1064.5	14.84	12.05
MW-19	1077.06	4.4	1072.66	4.6	1072.46	4.3	1072.76	3.48	1073.58	3.31	1073.75	4	1073.06	4	1073.06	4	1073.06	4.2	1072.86	6.64	1070.42	4	1073.06	4	1073.06	6.64	3.31
MW-20	1108.01	59	1049.01	59.3	1048.71	59.6	1048.41	59.48	1048.53	58.22	1049.79	56.94	1051.07	56.94	1051.07	57.2	1050.81	57.4	1050.61	59.85	1048.16	57.5	1050.51	57.2	1050.81	59.85	56.94
MW-21	1107.42	11.2	1096.22	11.4	1096.02	11.1	1096.32	5.41	1102.01	6.5	1100.92	7.6	1099.82	7.6	1099.82	8.4	1099.02	8.1	1099.32	15.4	1092.02	8.1	1099.32	7.8	1099.62	15.4	5.41
MW-22		7.6		7.8		7.9		7.05		7.08						5.2		4.9				4.2		4.6		7.9	4.2
MW-24	1082.08	14.6	1067.48	14.8	1067.28	14.4	1067.68	13.22	1068.86	12.96	1069.12	14.3	1067.78	14.3	1067.78	13.8	1068.28	13.6	1068.48	16.21	1065.87	13.3	1068.78	13.8	1068.28	16.21	12.96
MW-25	1089	7.6	1081.4	7.8	1081.2	7.8	1081.2	6.85	1082.15	6.42	1082.58	7.2	1081.8	7.2	1081.8	6.9	1082.1	6.7	1082.3	8.39	1080.61	6.2	1082.8	6.6	1082.4	8.39	6.2
MW-26	1086.93	11.7	1075.23	11.6	1075.33	11.6	1075.33	10.07	1076.86	10.06	1076.87	11.2	1075.73	11.2	1075.73	11.2	1075.73	11.2	1075.73	12.7	1074.23	11.1	1075.83	11.3	1075.63	12.7	10.06
MW-27	1083.5	10	1073.5	10.1	1073.4	10.6	1072.9	9.38	1074.12	9.12	1074.38	9.7	1073.8	9.7	1073.8	9.9	1073.6	9.6	1073.9	12.6	1070.9	9.4	1074.1	9.6	1073.9	12.6	9.12
MW-28	1083.5	8.3	1075.2	7.9	1075.6	8.2	1075.3	7.15	1076.35	6.65	1076.85	7.3	1076.2	7.3	1076.2	7.4	1076.1	7.2	1076.3	10.45	1073.05	7.2	1076.3	7.3	1076.2	10.45	6.65
OW-30	1101.77	5.8	1095.97	5.9	1095.87	6.2	1095.57	5.6	1096.17	4.2	1097.57	4.05	1097.72	4.05	1097.72	4.4	1097.37	4.4	1097.37	8.22	1093.55	4.1	1097.67	4.3	1097.47	8.22	4.05

Appendix B

Field Sampling Forms

Fayette County Sanitary Landfill
PERMIT # 33-SDP-02-83P

4/22/2024 Sampled by: Todd Whipple Weather conditions: Sunny , breezy to windy 48-70 degrees

IDNR Form 542-1322

Monitoring Well: MW-5 (ug)

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

GENERAL INFORMATION

TOC	1118.65
Well Depth	20.10
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	1118.65
Well Depth	20.10
Top Screen	1108.55
Bottom Screen	1098.55
Bottom Well	1098.55
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.50
Top sample	1104.15
Bottom sample	1100.15
Turbidity(NTU)	4.46

Date	Time	Water Level	Water Elevation	Notes
4/22/2024	10:01	3.38	1115.27	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		4.46
Appendix I	Metals	150	150		4.46
Appendix I	VOC	240	240		4.46
Full Appendix II	10 more containers	5620		500	
Supplemental	alkalinity	250			
Supplemental	Sulfide	250		250	
Supplemental	methane	120		120	
Total			400	870	

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

TOC	1118.65
Well Depth	20.10

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	4/22/2024	10:01	3.38	1115.27	3	1.1	No
After purging				1118.65			
Top of Screen after construction				1108.55			
				10.10	feet above (+) or below (-) top screen		
Bottom of Well after construction				1098.55			
Bottom of Well	4/22/2024		20.00	1098.65			
				0.10	feet sedimentation		
Before Sampling				1118.65			
Recovery	4/22/2024	10:12	11.90	1106.75			
Recovery	4/22/2024	14:50	3.35	1115.30			
Recovery				1118.65			
Recovery				1118.65			

IDNR Form 542-1322

Monitoring Well: MW-7 (dg)

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

GENERAL INFORMATION

TOC	1086.36
Well Depth	24.39
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	1086.36
Well Depth	24.39
Top Screen	1072.23
Bottom Screen	1062.23
Bottom Well	1061.73
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	18.00
Top sample	1068.36
Bottom sample	1064.36
Turbidity(NTU)	2.66

Date	Time	Water Level	Water Elevation	Notes
4/22/2024	12:27	8.13	1078.23	

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		2.66
Appendix I	Metals	150	150		2.66
Appendix I	VOC	240	240		2.66
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental		250		500	
Supplemental		120			
Total			400	500	

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

		2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
TOC	1086.36								
Well Depth	24.39	Before purging	4/22/2024	12:27	8.13	1078.23	3	1.1	no
		After purging				1086.36			
		Top of Screen after construction				1072.23			
						14.13	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1062.23			
		Bottom of Well	4/22/2024		24.10	1062.26			
						0.03	feet sedimentation		
		Before Sampling				1086.36			
		Recovery	4/22/2024	12:36	16.45	1069.91			
		Recovery	4/22/2024	15:06	8.87	1077.49			
		Recovery				1086.36			
		Recovery				1086.36			

IDNR Form 542-1322

Monitoring Well: MW-9 (dg)

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

GENERAL INFORMATION

TOC	1069.53
Well Depth	19.78
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	1069.53	
Well Depth	19.78	
Top Screen	1059.75	
Bottom Screen	1049.73	
Bottom Well	1049.63	
Sampler Length (ft)	4.00	
Sampler Volume (mL)	440.00	
Feet cordage	14.00	
Top sample	1055.53	
Bottom sample	1051.53	
Turbidity(NTU)	24.41	red

Date	Time	Water Level	Water Elevation	Notes
4/22/2024	13:36	2.4	1067.13	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		24.41
Appendix I	Metals	150	150		24.41
Appendix I	VOC	240	240		24.41
Full Appendix II	10 more containers	5620		500	
TSS	TSS	250			
Supplemental	BEHP	250			
Supplemental		120			
Total			400	500	

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

TOC	1069.53	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.78	Before purging	4/22/2024	13:36	2.4	1067.13	3	1.1	no
		After purging				1069.53			
		Top of Screen after construction				1059.75			
						9.78	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1049.73			
		Bottom of Well	4/22/2024		19.80	1049.73			
						0.00	feet sedimentation		
		Before Sampling				1069.53			
		Recovery	4/22/2024	13:44	9.60	1059.93			
		Recovery	4/22/2024	15:10	2.40	1067.13			
		Recovery				1069.53			
		Recovery				1069.53			

IDNR Form 542-1322

Monitoring Well: MW-12 (ug)

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

GENERAL INFORMATION

TOC	1099.11
Well Depth	24.88
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1099.11
Well Depth	24.88
Top Screen	1084.23
Bottom Screen	1074.23
Bottom Well	1073.62
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	19.00
Top sample	1080.11
Bottom sample	1076.11
Turbidity(NTU)	6.91

Date	Time	Water Level	Water Elevation	Notes
4/22/2024	9:25	8.19	1090.92	

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		6.91
Appendix I	Metals	150	150		6.91
Appendix I	VOC	240	240		6.91
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental		250		500	
Supplemental		120			
Total			400	500	

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

TOC	1099.11	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	24.88	Before purging	4/22/2024	9:25	8.19	1090.92	3	1.1	no
		After purging				1099.11			
		Top of Screen after construction				1084.23			
						14.88	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1074.23			
		Bottom of Well	4/22/2024		24.85	1074.26			
						0.03	feet sedimentation		
		Before Sampling				1099.11			
		Recovery	4/22/2024	9:34	16.10	1083.01			
		Recovery	4/22/2024	14:46	8.20	1090.91			
		Recovery				1099.11			
		Recovery				1099.11			

IDNR Form 542-1322

Monitoring Well: MW-16 (dg)

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

GENERAL INFORMATION

TOC	1094.27
Well Depth	29.15
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	1094.27
Well Depth	29.15
Top Screen	1075.12
Bottom Screen	1065.12
Bottom Well	1064.62
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	25.00
Top sample	1069.27
Bottom sample	1065.27
Turbidity(NTU)	2.27

Date	Time	Water Level	Water Elevation	Notes
4/22/2024	11:47	9.32	1084.95	

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		2.27
Appendix I	Metals	150	150		2.27
Appendix I	VOC	240	240		2.27
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental	Sulfide	250		500	
Supplemental		120			
Total			400	500	

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

		2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
TOC	1094.27								
Well Depth	29.15	Before purging	4/22/2024	11:47	9.32	1084.95	3	0.9	no
		After purging				1094.27			
		Top of Screen after construction				1075.12			
						19.15	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1065.12			
		Bottom of Well	4/22/2024		30.83	1063.44			
						-1.68	feet sedimentation		
		Before Sampling				1094.27			
		Recovery	4/22/2024	11:55	20.85	1073.42			
		Recovery	4/22/2024	15:01	19.00	1075.27			
		Recovery				1094.27			
		Recovery				1094.27			

IDNR Form 542-1322

Monitoring Well: MW-17 (ug)

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

GENERAL INFORMATION

TOC	1086.07
Well Depth	30.85
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	1086.07
Well Depth	30.85
Top Screen	1065.22
Bottom Screen	1055.22
Bottom Well	1054.72
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	24.00
Top sample	1062.07
Bottom sample	1058.07
Turbidity(NTU)	3.00

Date	Time	Water Level	Water Elevation	Notes
4/22/2024	10:43	6.97	1079.1	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		3.00
Appendix I	Metals	150	150		3.00
Appendix I	VOC	240	240		3.00
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental		250		500	
Supplemental		120			
Total			400	500	

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

TOC	1086.07	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	30.85	Before purging	4/22/2024	10:43	6.97	1079.10	3	0.8	No
		After purging				1086.07			
		Top of Screen after construction				1065.22			
						20.85	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1055.22			
		Bottom of Well	4/22/2024		31.00	1055.07			
						-0.15	feet sedimentation		
		Before Sampling				1086.07			
		Recovery	4/22/2024	10:51	22.00	1064.07			
		Recovery	4/22/2024	14:55	6.93	1079.14			
		Recovery				1086.07			
		Recovery				1086.07			

IDNR Form 542-1322

Monitoring Well: MW-21 (ug)

Primary Sampling Method: No-Purge for Appendix I

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

GENERAL INFORMATION

TOC	1107.23
Well Depth	17.50
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	1107.23
Well Depth	17.50
Top Screen	1099.73
Bottom Screen	1089.73
Bottom Well	1089.23
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	12.50
Top sample	1094.73
Bottom sample	1090.73
Turbidity(NTU)	2.75

Date	Time	Water Level	Water Elevation
4/22/2024	10:25	12.25	1094.98

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			2.75
Appendix I	Metals	150			2.75
Appendix I	VOC	240			2.75
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental		250			
Supplemental		120			
Total			0	0	

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

TOC	1107.23	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	17.50	Before purging	4/22/2024	10:25	12.25	1094.98	2	2.3	No
		After purging				1107.23			
		Top of Screen after construction				1099.73			
						7.50	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1089.73			
		Bottom of Well	4/22/2024		17.55	1089.68			
						-0.05	feet sedimentation		
		Before Sampling				1107.23			
		Recovery	4/22/2024	10:32	15.40	1091.83			
		Recovery	4/22/2024	14:53	12.87	1094.36			
		Recovery				1107.23			
		Recovery				1107.23			

IDNR Form 542-1322

Monitoring Well: MW-24 (dg)

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

GENERAL INFORMATION

TOC	1082.08
Well Depth	21.41
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	1082.08
Well Depth	21.41
Top Screen	1070.67
Bottom Screen	1060.67
Bottom Well	1059.67
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	17.00
Top sample	1065.08
Bottom sample	1061.08
Turbidity(NTU)	7.61

Date	Time	Water Level	Water Elevation
4/22/2024	12:43	14.44	1067.64

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10			7.61
Appendix I	Metals	150			7.61
Appendix I	VOC	240			7.61
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental		250			
Supplemental	Sulfide	120			
Total			0	0	

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

TOC	1082.08
Well Depth	21.41

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	4/22/2024	12:43	14.44	1067.64	3	2.6	no
After purging				1082.08			
Top of Screen after construction				1070.67			
				11.41	feet above (+) or below (-) top screen		
Bottom of Well after construction				1060.67			
Bottom of Well	4/22/2024		21.65	1060.43			
				-0.24	feet sedimentation		
Before Sampling				1082.08			
Recovery	4/22/2024	12:50	17.51	1064.57			
Recovery	4/22/2024	15:08	14.43	1067.65			
Recovery				1082.08			
Recovery				1082.08			

IDNR Form 542-1322

Monitoring Well: MW-25 (dg)

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

GENERAL INFORMATION

TOC	1089
Well Depth	19.60
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1089
Well Depth	19.60
Top Screen	1079.40
Bottom Screen	1069.40
Bottom Well	1068.40
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.50
Top sample	1074.50
Bottom sample	1070.50
Turbidity(NTU)	2.69

Date	Time	Water Level	Water Elevation
4/22/2024	12:04	6.42	1082.58

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		2.69
Appendix I	Metals	150	150		2.69
Appendix I	VOC	240	240		2.69
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental	BEHP	250			
Supplemental		120			
Total			400	0	

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

		2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
TOC	1089								
Well Depth	19.60	Before purging	4/22/2024	12:04	6.42	1082.58		0.0	
		After purging				1089.00			
		Top of Screen after construction				1079.40			
						9.60	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1069.40			
		Bottom of Well	4/22/2024		20.00	1069.00			
						-0.40	feet sedimentation		
		Before Sampling				1089.00	App I		
		Recovery	4/22/2024			1089.00	App II		
		Recovery	4/22/2024			1089.00			
		Recovery				1089.00			
		Recovery				1089.00			

IDNR Form 542-1322

Monitoring Well: MW-26 (dg)

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

GENERAL INFORMATION

TOC	1086.93
Well Depth	19.64
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1086.93
Well Depth	19.64
Top Screen	1077.29
Bottom Screen	1067.29
Bottom Well	1066.29
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	1072.93
Bottom sample	1068.93
Turbidity(NTU)	83.06

Date	Time	Water Level	Water Elevation
4/22/2024	11:30	9.71	1077.22

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		83.06
Appendix I	Metals	150	150		83.06
Appendix I	VOC	240	240		83.06
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental	BEHP	250			
Supplemental		120			
Total			400	0	

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

TOC	1086.93
Well Depth	19.64

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	4/22/2024	11:30	9.71	1077.22	3	1.9	no
After purging				1086.93			
Top of Screen after construction				1077.29			
				9.64	feet above (+) or below (-) top screen		
Bottom of Well after construction				1067.29			
Bottom of Well	4/22/2024		19.95	1066.98			
				-0.31	feet sedimentation		
Before Sampling				1086.93			
Recovery	4/22/2024	11:39	13.50	1073.43			
Recovery	4/22/2024	14:59	9.70	1077.23			
Recovery				1086.93			
Recovery				1086.93			

IDNR Form 542-1322

Monitoring Well: MW-32 (dg)

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

GENERAL INFORMATION

TOC	1078.35
Well Depth	16.80
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1078.35	
Well Depth	16.80	
Top Screen	1066.55	
Bottom Screen	1061.55	
Bottom Well	1060.40	
Sampler Length (ft)	4.00	
Sampler Volume (mL)	440.00	
Feet cordage	11.00	
Top sample	1067.35	
Bottom sample	1063.35	
Turbidity(NTU)	35.63	red

Date	Time	Water Level	Water Elevation
4/22/2024	13:17	5.17	1073.18

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		35.63
Appendix I	Metals	150	150		35.63
Appendix I	VOC	240	240		35.63
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental		250			
Supplemental		120			
Total			400	0	

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

TOC	1078.35
Well Depth	16.80

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	4/22/2024	13:17	5.17	1073.18	3	1.6	no
After purging				1078.35			
Top of Screen after construction				1066.55			
				11.80	feet above (+) or below (-) top screen		
Bottom of Well after construction				1061.55			
Bottom of Well	4/22/2024		16.80	1061.55			
				0.00	feet sedimentation		
Before Sampling				1078.35			
Recovery	4/22/2024	13:24	12.40	1065.95			
Recovery	4/22/2024	14:43	5.17	1073.18			
Recovery				1078.35			
Recovery				1078.35			

IDNR Form 542-1322

Monitoring Well: MW-33 (dg)

Primary Sampling Method: No-Purge for Appendix I

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

GENERAL INFORMATION

TOC	1082.11
Well Depth	16.50
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	1082.11	
Well Depth	16.50	
Top Screen	1070.61	
Bottom Screen	1065.61	
Bottom Well	1064.70	
Sampler Length (ft)	4.00	
Sampler Volume (mL)	440.00	
Feet cordage	10.50	
Top sample	1071.61	
Bottom sample	1067.61	
Turbidity(NTU)	88.99	red blobs

Date	Time	Water Level	Water Elevation
4/22/2024	13:01	3.3	1078.81

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		88.99
Appendix I	Metals	150	150		88.99
Appendix I	VOC	240	240		88.99
Bis	Bis	5620		940	
TSS	TSS	250			
Supplemental		250			
Supplemental		120			
Total			400	940	

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

TOC	1082.11	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	16.50	Before purging	4/22/2024	13:01	3.30	1078.81	3	1.4	no
		After purging				1082.11			
		Top of Screen after construction				1070.61			
						11.50	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1065.61			
		Bottom of Well	4/22/2024		16.50	1065.61			
						0.00	feet sedimentation		
		Before Sampling				1082.11			
		Recovery	4/22/2024	13:11	11.70	1070.41			
		Recovery	4/22/2024	14:41	3.33	1078.78			
		Recovery				1082.11			
		Recovery				1082.11			

Fayette County Sanitary Landfill
PERMIT # 33-SDP-02-83P

10/7/2024 Sampled by: Todd Whipple Weather conditions: Sunny ,calm 48-72 degrees

IDNR Form 542-1322

Primary Sampling Method: No-Purge for Appendix I
Monitoring Well: MW-5 (ug) **Secondary Sampling Method:** Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1118.65
Well Depth	20.10
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	1118.65
Well Depth	20.10
Top Screen	1108.55
Bottom Screen	1098.55
Bottom Well	1098.55
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.50
Top sample	1104.15
Bottom sample	1100.15
Turbidity(NTU)	3.35

Date	Time	Water Level	Water Elevation	Notes
10/7/2024	11:35	13.19	1105.46	

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		3.35
Appendix I	Metals	150	150		3.35
Appendix I	VOC	240	240		3.35
Full Appendix II	10 more containers	5620		500	
Supplemental	alkalinity	250			
Supplemental	Sulfide	250		250	
Supplemental	methane	120		120	
Total			400	870	

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

TOC	1118.65
Well Depth	20.10

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/7/2024	11:35	13.19	1105.46		0.0	
After purging				1118.65			
Top of Screen after construction				1108.55			
				10.10	feet above (+) or below (-) top screen		
Bottom of Well after construction				1098.55			
Bottom of Well	10/7/2024		20.00	1098.65			
				0.10	feet sedimentation		
Before Sampling				1118.65			
Recovery				1118.65			
Recovery				1118.65			
Recovery				1118.65			
Recovery				1118.65			

IDNR Form 542-1322

Monitoring Well: MW-7 (dg)

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

GENERAL INFORMATION

TOC	1086.36
Well Depth	24.39
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	1086.36
Well Depth	24.39
Top Screen	1072.23
Bottom Screen	1062.23
Bottom Well	1061.73
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	19.00
Top sample	1067.36
Bottom sample	1063.36
Turbidity(NTU)	6.02

Date	Time	Water Level	Water Elevation	Notes
10/7/2024	12:18	17.89	1068.47	

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		6.02
Appendix I	Metals	150	150		6.02
Appendix I	VOC	240	240		6.02
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental		250		500	
Supplemental		120			
Total			400	500	

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

TOC	1086.36	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	24.39	Before purging	10/7/2024	12:18	17.89	1068.47		0.0	
		After purging				1086.36			
		Top of Screen after construction				1072.23			
						14.13	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1062.23			
		Bottom of Well	10/7/2024		24.10	1062.26			
						0.03	feet sedimentation		
		Before Sampling				1086.36			
		Recovery				1086.36			
		Recovery				1086.36			
		Recovery				1086.36			
		Recovery				1086.36			

IDNR Form 542-1322

Monitoring Well: MW-9 (dg)

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

GENERAL INFORMATION

TOC	1069.53
Well Depth	19.78
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	1069.53
Well Depth	19.78
Top Screen	1059.75
Bottom Screen	1049.73
Bottom Well	1049.63
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.50
Top sample	1055.03
Bottom sample	1051.03
Turbidity(NTU)	8.70

Date	Time	Water Level	Water Elevation	Notes
10/7/2024	13:13	10.85	1058.68	

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		8.70
Appendix I	Metals	150	150		8.70
Appendix I	VOC	240	240		8.70
Full Appendix II	10 more containers	5620		500	
TSS	TSS	250			
Supplemental	BEHP	250			
Supplemental		120			
Total			400	500	

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

TOC	1069.53
Well Depth	19.78

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/7/2024	13:13	10.85	1058.68		0.0	
After purging				1069.53			
Top of Screen after construction				1059.75			
				9.78	feet above (+) or below (-) top screen		
Bottom of Well after construction				1049.73			
Bottom of Well	10/7/2024		19.80	1049.73			
				0.00	feet sedimentation		
Before Sampling				1069.53			
Recovery				1069.53			
Recovery				1069.53			
Recovery				1069.53			
Recovery				1069.53			

IDNR Form 542-1322

Monitoring Well: MW-12 (ug)

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

GENERAL INFORMATION

TOC	1099.11
Well Depth	24.88
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1099.11
Well Depth	24.88
Top Screen	1084.23
Bottom Screen	1074.23
Bottom Well	1073.62
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	19.00
Top sample	1080.11
Bottom sample	1076.11
Turbidity(NTU)	3.84

Date	Time	Water Level	Water Elevation	Notes
10/7/2024	11:00	18.80	1080.31	

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		3.84
Appendix I	Metals	150	150		3.84
Appendix I	VOC	240	240		3.84
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental		250		500	
Supplemental		120			
Total			400	500	

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

		2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
TOC	1099.11								
Well Depth	24.88	Before purging	10/7/2024	11:00	18.80	1080.31		0.0	
		After purging				1099.11			
		Top of Screen after construction				1084.23			
						14.88	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1074.23			
		Bottom of Well	10/7/2024		24.85	1074.26			
						0.03	feet sedimentation		
		Before Sampling				1099.11			
		Recovery				1099.11			
		Recovery				1099.11			
		Recovery				1099.11			
		Recovery				1099.11			

IDNR Form 542-1322

Monitoring Well: MW-16 (dg)

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

GENERAL INFORMATION

TOC	1094.27
Well Depth	29.15
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	1094.27
Well Depth	29.15
Top Screen	1075.12
Bottom Screen	1065.12
Bottom Well	1064.62
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	25.00
Top sample	1069.27
Bottom sample	1065.27
Turbidity(NTU)	3.15

Date	Time	Water Level	Water Elevation	Notes
10/7/2024	9:20	12:59	1093.73	

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		3.15
Appendix I	Metals	150	150		3.15
Appendix I	VOC	240	240		3.15
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental	Sulfide	250		500	
Supplemental		120			
Total			400	500	

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

TOC	1094.27
Well Depth	29.15

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/7/2024	9:20	0.540972222	1093.73		0.0	
After purging				1094.27			
Top of Screen after construction				1075.12			
				19.15	feet above (+) or below (-) top screen		
Bottom of Well after construction				1065.12			
Bottom of Well	10/7/2024		30.83	1063.44			
				-1.68	feet sedimentation		
Before Sampling				1094.27			
Recovery				1094.27			
Recovery				1094.27			
Recovery				1094.27			
Recovery				1094.27			

IDNR Form 542-1322

Monitoring Well: MW-17 (ug)

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

GENERAL INFORMATION

TOC	1086.07
Well Depth	30.85
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	1086.07
Well Depth	30.85
Top Screen	1065.22
Bottom Screen	1055.22
Bottom Well	1054.72
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	25.00
Top sample	1061.07
Bottom sample	1057.07
Turbidity(NTU)	2.54

Date	Time	Water Level	Water Elevation	Notes
10/7/2024	10:25	8.25	1077.82	

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		2.54
Appendix I	Metals	150	150		2.54
Appendix I	VOC	240	240		2.54
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental		250		500	
Supplemental		120			
Total			400	500	

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

TOC	1086.07
Well Depth	30.85

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/7/2024	10:25	8.25	1077.82		0.0	
After purging				1086.07			
Top of Screen after construction				1065.22			
				20.85	feet above (+) or below (-) top screen		
Bottom of Well after construction				1055.22			
Bottom of Well	10/7/2024		31.00	1055.07			
				-0.15	feet sedimentation		
Before Sampling				1086.07			
Recovery				1086.07			
Recovery				1086.07			
Recovery				1086.07			
Recovery				1086.07			

IDNR Form 542-1322

Monitoring Well: MW-21 (ug)

Primary Sampling Method: No-Purge for Appendix I

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

GENERAL INFORMATION

TOC	1107.23
Well Depth	17.50
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	1107.23
Well Depth	17.50
Top Screen	1099.73
Bottom Screen	1089.73
Bottom Well	1089.23
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	16.00
Top sample	1091.23
Bottom sample	1087.23
Turbidity(NTU)	26.42

Date	Time	Water Level	Water Elevation
10/7/2024	10:45	15.21	1092.02

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			26.42
Appendix I	Metals	150			26.42
Appendix I	VOC	240			26.42
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental		250			
Supplemental		120			
Total			0	0	

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

TOC	1107.23	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	17.50	Before purging	10/7/2024	10:45	15.21	1092.02		0.0	
		After purging				1107.23			
		Top of Screen after construction				1099.73			
						7.50	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1089.73			
		Bottom of Well	10/7/2024		17.55	1089.68			
						-0.05	feet sedimentation		
		Before Sampling				1107.23			
		Recovery				1107.23			
		Recovery				1107.23			
		Recovery				1107.23			
		Recovery				1107.23			

IDNR Form 542-1322

Monitoring Well: MW-24 (dg)

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

GENERAL INFORMATION

TOC	1082.08
Well Depth	21.41
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	1082.08
Well Depth	21.41
Top Screen	1070.67
Bottom Screen	1060.67
Bottom Well	1059.67
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	1082.08
Bottom sample	1078.08
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation
10/7/2024	12:43	20.45	1061.63
	too dry to 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			0.00
Appendix I	Metals	150			0.00
Appendix I	VOC	240			0.00
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental		250			
Supplemental	Sulfide	120			
Total			0	0	

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

TOC	1082.08	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	21.41	Before purging	10/7/2024	12:43	20.45	1061.63		0.0	
		After purging				1082.08			
		Top of Screen after construction				1070.67			
						11.41	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1060.67			
		Bottom of Well	10/7/2024		21.65	1060.43			
						-0.24	feet sedimentation		
		Before Sampling				1082.08			
		Recovery				1082.08			
		Recovery				1082.08			
		Recovery				1082.08			
		Recovery				1082.08			

IDNR Form 542-1322

Monitoring Well: MW-25 (dg)

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

GENERAL INFORMATION

TOC	1089
Well Depth	19.60
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1089
Well Depth	19.60
Top Screen	1079.40
Bottom Screen	1069.40
Bottom Well	1068.40
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	15.00
Top sample	1074.00
Bottom sample	1070.00
Turbidity(NTU)	2.54

Date	Time	Water Level	Water Elevation
10/7/2024	12:03	9.62	1079.38

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.54
Appendix I	Metals	150	150		2.54
Appendix I	VOC	240	240		2.54
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental	BEHP	250			
Supplemental		120			
Total			400	0	

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

TOC	1089
Well Depth	19.60

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/7/2024	12:03	9.62	1079.38		0.0	
After purging				1089.00			
Top of Screen after construction				1079.40			
				9.60	feet above (+) or below (-) top screen		
Bottom of Well after construction				1069.40			
Bottom of Well	10/7/2024		20.00	1069.00			
				-0.40	feet sedimentation		
Before Sampling				1089.00	App I		
Recovery	4/22/2024			1089.00	App II		
Recovery	4/22/2024			1089.00			
Recovery				1089.00			
Recovery				1089.00			

IDNR Form 542-1322

Monitoring Well: MW-26 (dg)

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

GENERAL INFORMATION

TOC	1086.93
Well Depth	19.64
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1086.93
Well Depth	19.64
Top Screen	1077.29
Bottom Screen	1067.29
Bottom Well	1066.29
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	15.00
Top sample	1071.93
Bottom sample	1067.93
Turbidity(NTU)	7.81

Date	Time	Water Level	Water Elevation
10/7/2024	9:42	14.65	1072.28

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		7.81
Appendix I	Metals	150	150		7.81
Appendix I	VOC	240	240		7.81
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental	BEHP	250			
Supplemental		120			
Total			400	0	

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

TOC	1086.93
Well Depth	19.64

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/7/2024	9:42	14.65	1072.28		0.0	
After purging				1086.93			
Top of Screen after construction				1077.29			
				9.64	feet above (+) or below (-) top screen		
Bottom of Well after construction				1067.29			
Bottom of Well	10/7/2024		19.95	1066.98			
				-0.31	feet sedimentation		
Before Sampling				1086.93			
Recovery				1086.93			
Recovery				1086.93			
Recovery				1086.93			
Recovery				1086.93			

IDNR Form 542-1322

Monitoring Well: MW-32 (dg)

Primary Sampling Method: No-Purge for Appendix I

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

GENERAL INFORMATION

TOC	1078.35
Well Depth	16.80
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1078.35	
Well Depth	16.80	
Top Screen	1066.55	
Bottom Screen	1061.55	
Bottom Well	1060.40	
Sampler Length (ft)	4.00	
Sampler Volume (mL)	440.00	
Feet cordage	12.50	
Top sample	1065.85	
Bottom sample	1061.85	
Turbidity(NTU)	23.22	red

Date	Time	Water Level	Water Elevation
10/7/2024	12:46	12.04	1066.31

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		23.22
Appendix I	Metals	150	150		23.22
Appendix I	VOC	240	240		23.22
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental		250			
Supplemental		120			
Total			400	0	

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

TOC	1078.35
Well Depth	16.80

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/7/2024	12:46	12.04	1066.31		0.0	
After purging				1078.35			
Top of Screen after construction				1066.55			
				11.80	feet above (+) or below (-) top screen		
Bottom of Well after construction				1061.55			
Bottom of Well	10/7/2024		16.80	1061.55			
				0.00	feet sedimentation		
Before Sampling				1078.35			
Recovery				1078.35			
Recovery				1078.35			
Recovery				1078.35			
Recovery				1078.35			

IDNR Form 542-1322

Monitoring Well: MW-33 (dg)

Primary Sampling Method: No-Purge for Appendix I

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

GENERAL INFORMATION

TOC	1082.11
Well Depth	16.50
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	1082.11
Well Depth	16.50
Top Screen	1070.61
Bottom Screen	1065.61
Bottom Well	1064.70
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	1082.11
Bottom sample	1078.11
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation
10/7/2024		15.2	1066.91
	too dry to 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	10		0
Appendix I	Metals	150	150		0
Appendix I	VOC	240	240		0
Bis	Bis	5620		940	
TSS	TSS	250			
Supplemental		250			
Supplemental		120			
Total			400	940	

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

TOC	1082.11
Well Depth	16.50

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/7/2024	0:00	15.20	1066.91		0.0	
After purging				1082.11			
Top of Screen after construction				1070.61			
				11.50	feet above (+) or below (-) top screen		
Bottom of Well after construction				1065.61			
Bottom of Well	10/7/2024		16.50	1065.61			
				0.00	feet sedimentation		
Before Sampling				1082.11			
Recovery				1082.11			
Recovery				1082.11			
Recovery				1082.11			
Recovery				1082.11			

Appendix C

Summary Tables

Table 1

Analytical Data Summary for ACM TILE 1

Constituents	Units	10/13/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022	4/3/2023	10/16/2023	4/22/2024
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	<5	<5	<5	<5	<5	<5	<5	<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	ug/L	<5	<5	<5	<10	<10	<10	<10	<10
2-hexanone	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone	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							
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	557							
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<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							
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							
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	4.9							
Copper, total	ug/L	<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
Iodomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4							
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	27.4							
Selenium, total	ug/L	<4							
Silver, total	ug/L	<4							
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	<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							
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							

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

Table 2

Analytical Data Summary for MW-10

Constituents	Units	10/27/2014	10/20/2015	2/25/2016	4/11/2016	10/12/2016	4/12/2017	10/26/2017	4/11/2018
(3 4)-methylphenol	ug/L						<8		
1,1,1,2-tetrachloroethane	ug/L	<.21	<1.00			<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	ug/L	<.12	<1.00			<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1	<1.0			<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	ug/L	<.12	<1.00			<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	<.21	<1.00			<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	ug/L	<.15	<1.00			<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene	ug/L						<1		
1,2,3-trichloropropane	ug/L	<.19	<1.00			<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene	ug/L						<8		
1,2,4-trichlorobenzene	ug/L						<1		
1,2-dibromo-3-chloropropane	ug/L	<.12	<1.00			<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	<.13	<1.00			<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	ug/L	<.14	<1.00			<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	<.18	<1.00			<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	<.87	<1.00			<1.00	<1.00	<1.00	<1.00
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	<.2	<1.0			<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone	ug/L						<8		
1,4-phenylenediamine	ug/L						<8		
1-naphthylamine	ug/L						<8		
2,2-dichloropropane	ug/L						<1		
2,3,4,6-tetrachlorophenol	ug/L						<8		
2,4,5-t	ug/L						<.5		
2,4,5-tp (silvex)	ug/L						<.5		
2,4,5-trichlorophenol	ug/L						<8		
2,4,6-trichlorophenol	ug/L						<8		
2,4-d	ug/L						<2		
2,4-dichlorophenol	ug/L						<8		
2,4-dimethylphenol	ug/L						<8		
2,4-dinitrophenol	ug/L						<8		
2,4-dinitrotoluene	ug/L						<8		
2,6-dichlorophenol	ug/L						<8		
2,6-dinitrotoluene	ug/L						<8		
2-acetylaminofluorene	ug/L						<8		
2-butanone	ug/L	<.47	<5.00			<5.00	<5.00	<5.00	<5.00
2-chloronaphthalene	ug/L						<8		
2-chlorophenol	ug/L						<8		
2-hexanone	ug/L	<.2	<5.0			<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene	ug/L						<8		
2-methylphenol (o-cresol)	ug/L						<8		
2-naphthylamine	ug/L						<8		
2-nitroaniline	ug/L						<8		
2-nitrophenol	ug/L						<8		
3,3´-dichlorobenzidine	ug/L						<8		
3,3'-dimethylbenzidine	ug/L						<8		
3-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	ug/L	<.22	<5.00			<5.00	<5.00	<5.00	<5.00
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	<1.79	<10.00			<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L						<10		
Acetophenone	ug/L						<8		
Acrolein	ug/L						<10		
Acrylonitrile	ug/L	<.53	<5.00			<5.00	<5.00	<5.00	<5.00
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 2

Analytical Data Summary for MW-10

Constituents	10/16/2018	4/18/2019	10/16/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021	4/15/2022	10/25/2022
(3 4)-methylphenol								<8	
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene								<1	
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene								<8	
1,2,4-trichlorobenzene								<1	
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<5.00	<5.00	<5.00	<5.00	<1.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene								<8	
1,3,5-trinitrobenzene								<8	
1,3-dichlorobenzene								<1	
1,3-dichloropropane								<1	
1,3-dinitrobenzene								<8	
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone								<8	
1,4-phenylenediamine								<8	
1-naphthylamine								<8	
2,2-dichloropropane								<1	
2,3,4,6-tetrachlorophenol								<8	
2,4,5-t								<.5	
2,4,5-tp (silvex)								<.5	
2,4,5-trichlorophenol								<8	
2,4,6-trichlorophenol								<8	
2,4-d								<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	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.00
2-chloronaphthalene								<8	
2-chlorophenol								<8	
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene								<8	
2-methylphenol (o-cresol)								<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								<.07	
4,4`-dde								<.07	
4,4`-ddt								<.07	
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	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
4-nitroaniline								<8	
4-nitrophenol								<8	
5-nitro-o-toluidine								<8	
7,12-dimethylbenz [a] anthracene								<8	
Acenaphthene								<8	
Acenaphthylene								<8	
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile								<10	
Acetophenone								<8	
Acrolein								<10	
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin								<.07	
Allyl chloride								<1	
Alpha-bhc								<.07	
Anthracene								<8	

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

Table 2

Analytical Data Summary for MW-10

Constituents	4/3/2023	10/16/2023
(3 4)-methylphenol		
1,1,1,2-tetrachloroethane	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00
1,1-dichloropropene		
1,2,3-trichloropropane	<1.00	<1.00
1,2,4,5-tetrachlorobenzene		
1,2,4-trichlorobenzene		
1,2-dibromo-3-chloropropane	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00
1,2-dinitrobenzene		
1,3,5-trinitrobenzene		
1,3-dichlorobenzene		
1,3-dichloropropane		
1,3-dinitrobenzene		
1,4-dichlorobenzene	<1.0	<1.0
1,4-naphthoquinone		
1,4-phenylenediamine		
1-naphthylamine		
2,2-dichloropropane		
2,3,4,6-tetrachlorophenol		
2,4,5-t		
2,4,5-tp (silvex)		
2,4,5-trichlorophenol		
2,4,6-trichlorophenol		
2,4-d		
2,4-dichlorophenol		
2,4-dimethylphenol		
2,4-dinitrophenol		
2,4-dinitrotoluene		
2,6-dichlorophenol		
2,6-dinitrotoluene		
2-acetylaminofluorene		
2-butanone	<10.00	<10.00
2-chloronaphthalene		
2-chlorophenol		
2-hexanone	<5.0	<5.0
2-methylnaphthalene		
2-methylphenol (o-cresol)		
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	<5.00	<5.00
4-nitroaniline		
4-nitrophenol		
5-nitro-o-toluidine		
7,12-dimethylbenz [a] anthracene		
Acenaphthene		
Acenaphthylene		
Acetone	<10.00	<10.00
Acetonitrile		
Acetophenone		
Acrolein		
Acrylonitrile	<5.00	<5.00
Aldrin		
Allyl chloride		
Alpha-bhc		
Anthracene		

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

Table 2

Analytical Data Summary for MW-10

Constituents	Units	10/27/2014	10/20/2015	2/25/2016	4/11/2016	10/12/2016	4/12/2017	10/26/2017	4/11/2018
Antimony, total	ug/L	<.161	<2.000			<2.000	<2.000	<2.000	<2.000
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	2.34	4.30	14.30	4.90	<4.00	<4.00	<4.00	<4.00
Azobenzene	ug/L						<8		
Barium, total	ug/L	39.5	42.6			38.4	38.1	37.3	41.4
Benzene	ug/L	<.11	<1.00			<1.00	<1.00	<1.00	<1.00
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	<.039	<4.000			<4.000	<4.000	<4.000	<4.000
Beta-bhc	ug/L						<.05		
Bis (2-chloroethoxy) methane	ug/L						<8		
Bis(2-chloroethyl) ether	ug/L						<8		
Bis(2-ethylhexyl) phthalate	ug/L						6	<6	7
Bis[2-chloroisopropyl]ether	ug/L						<8		
Bromochloromethane	ug/L	<.12	<1.00			<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	<.12	<1.00			<1.00	<1.00	<1.00	<1.00
Bromoform	ug/L	<.14	<1.00			<1.00	<1.00	<1.00	<1.00
Bromomethane	ug/L	<.22	<1.00			<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate	ug/L						<8		
Cadmium, total	ug/L	<.112	<.800			<.800	<.800	<.800	<.800
Carbon disulfide	ug/L	<.15	<1.00			<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	<.24	<1.00			<1.00	<1.00	<1.00	<1.00
Chlordane	ug/L						<.10		
Chlorobenzene	ug/L	<.19	<1.00			<1.00	<1.00	<1.00	<1.00
Chlorobenzilate	ug/L						<8		
Chloroethane	ug/L	<.15	<1.00			<1.00	<1.00	<1.00	<1.00
Chloroform	ug/L	<.28	<1.00			<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.31	<1.00			<1.00	<1.00	<1.00	<1.00
Chloroprene	ug/L						<1		
Chromium, total	ug/L	<1.24	<8.00			<8.00	<8.00	<8.00	<8.00
Chrysene	ug/L						<8		
Cis-1,2-dichloroethylene	ug/L	<.13	<1.00			<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	ug/L	<.15	<1.00			<1.00	<1.00	<1.00	<1.00
Cobalt, total	ug/L	<.0528	<.8000			<.8000	<.8000	<.8000	<.8000
Copper, total	ug/L	4.11	<4.00			<4.00	<4.00	<4.00	<4.00
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	<.2	<1.0			<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	<.18	<1.00			<1.00	<1.00	<1.00	<1.00
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	<.21	<1.00			<1.00	<1.00	<1.00	<1.00
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 2

Analytical Data Summary for MW-10

Constituents	10/16/2018	4/18/2019	10/16/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021	4/15/2022	10/25/2022
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arochlor 1016								<.1	
Arochlor 1221								<.2	
Arochlor 1232								<.2	
Arochlor 1242								<.2	
Arochlor 1248								<.2	
Arochlor 1254								<.1	
Arochlor 1260								<.1	
Arsenic, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Azobenzene								<8	
Barium, total	32.5	37.7	41.1	36.9	34.7	36.3	35.6	35.2	37.5
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc								<.07	
Bis (2-chloroethoxy) methane								<8	
Bis(2-chloroethyl) ether								<8	
Bis(2-ethylhexyl) phthalate	34	<6	<6	<6	<6	<6	<6	<6	
Bis[2-chloroisopropyl]ether								<8	
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate								<8	
Cadmium, total	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane								<.14	
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate								<8	
Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene								<1	
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene								<8	
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	<.8000	<.8000	<.8000	<.4000	<.4000	<.4000	<.4000	<.4000	<.4000
Copper, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Cyanide, total								<.005	
Delta-bhc								<.07	
Diallate								<8	
Dibenzo(a,h)anthracene								<8	
Dibenzofuran								<8	
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane								<1	
Dieldrin								<.07	
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								<.07	
Endosulfan ii								<.07	
Endosulfan sulfate								<.07	
Endrin								<.07	
Endrin aldehyde								<.07	
Ethyl methacrylate								<10	
Ethyl methanesulfonate								<8	
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur								<.4	
Fluoranthene								<8	
Fluorene								<8	
Gamma-bhc [lindane]								<.07	
Heptachlor								<.07	
Heptachlor epoxide								<.07	
Hexachlorobenzene								<.07	

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

Table 2

Analytical Data Summary for MW-10

Constituents	4/3/2023	10/16/2023
Antimony, total	<2.000	<2.000
Arochlor 1016		
Arochlor 1221		
Arochlor 1232		
Arochlor 1242		
Arochlor 1248		
Arochlor 1254		
Arochlor 1260		
Arsenic, total	<4.00	<4.00
Azobenzene		
Barium, total	34.5	34.6
Benzene	<1.00	<1.00
Benzo(a)anthracene		
Benzo(a)pyrene		
Benzo(b)fluoranthene		
Benzo(g,h,i)perylene		
Benzo(k)fluoranthene		
Benzyl alcohol		
Beryllium, total	<4.000	<4.000
Beta-bhc		
Bis (2-chloroethoxy) methane		
Bis(2-chloroethyl) ether		
Bis(2-ethylhexyl) phthalate		
Bis[2-chloroisopropyl]ether		
Bromochloromethane	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00
Bromoform	<1.00	<1.00
Bromomethane	<1.00	<1.00
Butyl benzyl phthalate		
Cadmium, total	<.800	<.800
Carbon disulfide	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00
Chlordane		
Chlorobenzene	<1.00	<1.00
Chlorobenzilate		
Chloroethane	<1.00	<1.00
Chloroform	<1.00	<1.00
Chloromethane	<1.00	<1.00
Chloroprene		
Chromium, total	<8.00	<8.00
Chrysene		
Cis-1,2-dichloroethylene	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00
Cobalt, total	<.4000	<.4000
Copper, total	<4.00	<4.00
Cyanide, total		
Delta-bhc		
Diallate		
Dibenzo(a,h)anthracene		
Dibenzofuran		
Dibromochloromethane	<1.0	<1.0
Dibromomethane	<1.00	<1.00
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	<1.00	<1.00
Famphur		
Fluoranthene		
Fluorene		
Gamma-bhc [lindane]		
Heptachlor		
Heptachlor epoxide		
Hexachlorobenzene		

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

Table 2

Analytical Data Summary for MW-10

Constituents	Units	10/27/2014	10/20/2015	2/25/2016	4/11/2016	10/12/2016	4/12/2017	10/26/2017	4/11/2018
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		
Iodomethane	ug/L	<.8	<1.0			<1.0	<1.0	<1.0	<1.0
Isobutanol	mg/L						<1		
Isodrin	ug/L						<8		
Isophorone	ug/L						<8		
Isosafrole	ug/L						<8		
Kepone	ug/L						<8		
Lead, total	ug/L	<.0967	<4.0000			<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total	ug/L						<.5		
Methacrylonitrile	ug/L						<1		
Methapyrilene	ug/L						<8		
Methoxychlor	ug/L						<.05		
Methyl methacrylate	ug/L						<1		
Methyl methanesulfonate	ug/L						<8		
Methyl parathion	ug/L						<.4		
Methylene chloride	ug/L	<.17	<5.00			<5.00	<5.00	<5.00	<5.00
Naphthalene	ug/L						<8		
Nickel, total	ug/L	<.581	<4.000			<4.000	<4.000	<4.000	<4.000
Nitrobenzene	ug/L						<8		
N-nitrosodiethylamine	ug/L						<8		
N-nitrosodimethylamine	ug/L						<8		
N-nitrosodi-n-butylamine	ug/L						<8		
N-nitroso-di-n-propylamine	ug/L						<8		
N-nitrosodiphenylamine	ug/L						<8		
N-nitrosomethylethylamine	ug/L						<8		
N-nitrosopiperidine	ug/L						<8		
N-nitrosopyrrolidine	ug/L						<8		
O,o,o-triethyl phosphorothioate	ug/L						<.4		
O-toluidine	ug/L						<8		
P-(dimethylamino)azobenzene	ug/L						<8		
Parathion	ug/L						<.4		
Pentachlorobenzene	ug/L						<8		
Pentachloronitrobenzene (pcnb)	ug/L						<8		
Pentachlorophenol	ug/L						<8		
Phenacetin	ug/L						<8		
Phenanthrene	ug/L						<8		
Phenol	ug/L						<8		
Phorate	ug/L						<.4		
Pronamide	ug/L						<8		
Propionitrile	ug/L						<10		
Pyrene	ug/L						<8		
Safrole	ug/L						<8		
Selenium, total	ug/L	<3.34	<4.00			<4.00	<4.00	<4.00	<4.00
Silver, total	ug/L	<.042	<4.000			<4.000	<4.000	<4.000	<4.000
Styrene	ug/L	<.1	<1.0			<1.0	<1.0	<1.0	<1.0
Sulfide, total	mg/L						<.1		
Tetrachloroethylene	ug/L	<.18	<1.00			<1.00	<1.00	<1.00	<1.00
Thallium, total	ug/L	<.0325	<4.0000			<4.0000	<4.0000	<4.0000	<4.0000
Thionazin	ug/L						<.4		
Tin, total	ug/L						<20		
Toluene	ug/L	<.15	<1.00			<1.00	<1.00	<1.00	<1.00
Total suspended solids	mg/L	6.5							
Toxaphene	ug/L						<.20		
Trans-1,2-dichloroethylene	ug/L	<.21	<1.00			<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	ug/L	<.22	<1.00			<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13	<5.00			<5.00	<5.00	<5.00	<5.00
Trichloroethylene	ug/L	<.19	<1.00			<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.17	<1.00			<1.00	<1.00	<1.00	<1.00
Turbidity, field	NTU	11.05							
Turbidity, lab	NTU	12.1							
Vanadium, total	ug/L	<.449	<20.000			<20.000	<20.000	<20.000	<20.000
Vinyl acetate	ug/L	<.74	<5.00			<5.00	<5.00	<5.00	<5.00
Vinyl chloride	ug/L	<.1	<1.0			<1.0	<1.0	<1.0	<1.0
Xylenes, total	ug/L	<.13	<2.00			<2.00	<2.00	<2.00	<2.00
Zinc, total	ug/L	<6.95	22.40			<8.00	<8.00	<8.00	<8.00

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

Table 2

Analytical Data Summary for MW-10

Constituents	10/16/2018	4/18/2019	10/16/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021	4/15/2022	10/25/2022
Hexachlorobutadiene								<8	
Hexachlorocyclopentadiene								<8	
Hexachloroethane								<8	
Hexachloropropene								<8	
Indeno(1,2,3-cd)pyrene								<8	
Iodomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
Isobutanol								<1	
Isodrin								<8	
Isophorone								<8	
Isosafrole								<8	
Kepone								<8	
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total								<.5	
Methacrylonitrile								<1	
Methapyrilene								<8	
Methoxychlor								<.07	
Methyl methacrylate								<1	
Methyl methanesulfonate								<8	
Methyl parathion								<.4	
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene								<8	
Nickel, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
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	
P-(dimethylamino)azobenzene								<8	
Parathion								<.4	
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	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total								<.1	
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<4.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Thionazin								<.4	
Tin, total								<20	
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids									
Toxaphene								<.29	
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	10.20	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 2

Analytical Data Summary for MW-10

Constituents	4/3/2023	10/16/2023
Hexachlorobutadiene		
Hexachlorocyclopentadiene		
Hexachloroethane		
Hexachloropropene		
Indeno(1,2,3-cd)pyrene		
Iodomethane	<1.0	<1.0
Isobutanol		
Isodrin		
Isophorone		
Isosafrole		
Kepone		
Lead, total	<4.0000	<4.0000
Mercury, total		
Methacrylonitrile		
Methapyrilene		
Methoxychlor		
Methyl methacrylate		
Methyl methanesulfonate		
Methyl parathion		
Methylene chloride	<5.00	<5.00
Naphthalene		
Nickel, total	<4.000	<4.000
Nitrobenzene		
N-nitrosodiethylamine		
N-nitrosodimethylamine		
N-nitrosodi-n-butylamine		
N-nitroso-di-n-propylamine		
N-nitrosodiphenylamine		
N-nitrosomethylethylamine		
N-nitrosopiperidine		
N-nitrosopyrrolidine		
O,o,o-triethyl phosphorothioate		
O-toluidine		
P-(dimethylamino)azobenzene		
Parathion		
Pentachlorobenzene		
Pentachloronitrobenzene (pcnb)		
Pentachlorophenol		
Phenacetin		
Phenanthrene		
Phenol		
Phorate		
Pronamide		
Propionitrile		
Pyrene		
Safrole		
Selenium, total	<4.00	<4.00
Silver, total	<4.000	<4.000
Styrene	<1.0	<1.0
Sulfide, total		
Tetrachloroethylene	<1.00	<1.00
Thallium, total	<2.0000	<2.0000
Thionazin		
Tin, total		
Toluene	<1.00	<1.00
Total suspended solids		
Toxaphene		
Trans-1,2-dichloroethylene	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00
Trichloroethylene	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00
Turbidity, field		
Turbidity, lab		
Vanadium, total	<20.000	<20.000
Vinyl acetate	<5.00	<5.00
Vinyl chloride	<1.0	<1.0
Xylenes, total	<2.00	<2.00
Zinc, total	<20.00	<20.00

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

Table 3

Analytical Data Summary for MW-11

Constituents	Units	10/24/2014	4/7/2015	10/20/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017	4/11/2018
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	<.87	<.87	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone	ug/L	<.47	<.47	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
2-hexanone	ug/L	<.2	<.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	ug/L	<.22	<.22	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Acetone	ug/L	<1.79	<1.79	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	ug/L	<.53	<.53	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Antimony, total	ug/L	<1.000	<.161	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arsenic, total	ug/L	<2.000	<.945	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Barium, total	ug/L	57.9	49.9	50.9	43.4	52.1	51.2	51.2	55.9
Benzene	ug/L	<.11	<.11	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Beryllium, total	ug/L	<.039	<.039	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cadmium, total	ug/L	<1.000	<.112	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroethane	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	ug/L	<.28	<.28	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium, total	ug/L	<1.24	<1.24	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	ug/L	.675	<1.000	<.800	<.800	.800	<.800	<.800	1.000
Copper, total	ug/L	4.04	<1.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Dibromochloromethane	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	ug/L	<.8	<.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead, total	ug/L	1.5000	<.0967	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Methylene chloride	ug/L	<.17	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel, total	ug/L	<20.0	<2.0	<4.0	<4.0	4.9	<4.0	<4.0	4.3
Selenium, total	ug/L	<3.34	<3.34	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	ug/L	<.042	<.042	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	ug/L	<.0325	<.0325	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Toluene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids	mg/L	14.3	<1.6						
Trans-1,2-dichloroethylene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field	NTU	8.637	1.295						
Turbidity, lab	NTU	<1.0	2.5						
Vanadium, total	ug/L	<.449	<.449	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	ug/L	<.74	<.74	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	ug/L	<.13	<.13	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	ug/L	<6.95	<6.95	25.30	9.50	<8.00	8.30	<8.00	<20.00

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

Table 3

Analytical Data Summary for MW-11

Constituents	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.00	<10.00
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arsenic, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Barium, total	50.0	105.0	59.5	56.1	53.9	50.5	58.4	48.9	53.3
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Beryllium, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cadmium, total	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	<.800	1.500	<.800	.900	.700	.800	.900	.800	1.000
Copper, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead, total	4.1000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel, total	<4.0	4.7	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Selenium, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<4.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids									
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	134.00	<20.00	<8.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 3

Analytical Data Summary for MW-11

Constituents	4/3/2023	10/16/2023
1,1,1,2-tetrachloroethane	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00
1,2,3-trichloropropane	<1.00	<1.00
1,2-dibromo-3-chloropropane	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00
1,4-dichlorobenzene	<1.0	<1.0
2-butanone	<10.00	<10.00
2-hexanone	<5.0	<5.0
4-methyl-2-pentanone	<5.00	<5.00
Acetone	<10.00	<10.00
Acrylonitrile	<5.00	<5.00
Antimony, total	<2.000	<2.000
Arsenic, total	<4.000	<4.000
Barium, total	52.1	60.8
Benzene	<1.00	<1.00
Beryllium, total	<4.000	<4.000
Bromochloromethane	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00
Bromoform	<1.00	<1.00
Bromomethane	<1.00	<1.00
Cadmium, total	<.800	<.800
Carbon disulfide	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00
Chlorobenzene	<1.00	<1.00
Chloroethane	<1.00	<1.00
Chloroform	<1.00	<1.00
Chloromethane	<1.00	<1.00
Chromium, total	<8.00	<8.00
Cis-1,2-dichloroethylene	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00
Cobalt, total	1.000	1.100
Copper, total	<4.00	<4.00
Dibromochloromethane	<1.0	<1.0
Dibromomethane	<1.00	<1.00
Ethylbenzene	<1.00	<1.00
Iodomethane	<1.0	<1.0
Lead, total	<4.0000	<4.0000
Methylene chloride	<5.00	<5.00
Nickel, total	<4.0	4.0
Selenium, total	<4.00	<4.00
Silver, total	<4.000	<4.000
Styrene	<1.0	<1.0
Tetrachloroethylene	<1.00	<1.00
Thallium, total	<2.0000	<2.0000
Toluene	<1.00	<1.00
Total suspended solids		
Trans-1,2-dichloroethylene	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00
Trichloroethylene	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00
Turbidity, field		
Turbidity, lab		
Vanadium, total	<20.000	<20.000
Vinyl acetate	<5.00	<5.00
Vinyl chloride	<1.0	<1.0
Xylenes, total	<2.00	<2.00
Zinc, total	<20.00	<20.00

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

Table 4

Analytical Data Summary for MW-12

Constituents	Units	10/24/2014	4/7/2015	10/20/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017	4/11/2018
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	<.87	<.87	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone	ug/L	<.47	<.47	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
2-hexanone	ug/L	<.2	<.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	ug/L	<.22	<.22	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Acetone	ug/L	<1.79	<1.79	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	ug/L	<.53	<.53	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Antimony, total	ug/L	<.161	<.161	<2.000	<2.000	6.200	<2.000	<2.000	<2.000
Arsenic, total	ug/L	<.945	<.945	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Barium, total	ug/L	161.0	159.0	137.0	174.0	129.0	212.0	152.0	190.0
Benzene	ug/L	<.11	<.11	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Beryllium, total	ug/L	<.039	<.039	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cadmium, total	ug/L	<.112	<.112	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	ug/L	2.42	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloride	mg/L								
Chlorobenzene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroethane	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	ug/L	<.28	<.28	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium, total	ug/L	<1.24	<1.24	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	ug/L	<.0528	<.0528	<.8000	<.8000	<.8000	<.8000	<.8000	<.8000
COD, total	mg/L								
Copper, total	ug/L	5.750	<.485	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Dibromochloromethane	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	ug/L	<.8	<.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead, total	ug/L	<.0967	<.0967	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Methylene chloride	ug/L	<.17	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel, total	ug/L	<1.000	<.581	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Nitrogen, Ammonia	mg/L								
Selenium, total	ug/L	<3.34	<3.34	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	ug/L	<.042	<.042	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	ug/L	<.0325	<.0325	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Toluene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids	mg/L	<5.0	<1.6						
Trans-1,2-dichloroethylene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field	NTU	3.148	1.555						
Turbidity, lab	NTU	<.6	<.7						
Vanadium, total	ug/L	<1.000	<.449	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	ug/L	<.74	<.74	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	ug/L	<.13	<.13	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	ug/L	<6.95	<6.95	<8.00	<8.00	<20.00	8.00	8.90	<20.00

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

Table 4

Analytical Data Summary for MW-12

Constituents	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.00	<10.00
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arsenic, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Barium, total	116.0	205.0	152.0	108.0	111.0	90.8	105.0	90.2	115.0
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Beryllium, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cadmium, total	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloride									
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	<.8000	<.8000	<.8000	<.4000	<.4000	<.4000	<.4000	<.4000	<.4000
COD, total									
Copper, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Nitrogen, Ammonia									
Selenium, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<4.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids									
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	16.60	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 4

Analytical Data Summary for MW-12

Constituents	4/3/2023	10/16/2023	4/22/2024	10/7/2024
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0
2-butanone	<10.00	<10.00	<10.00	<10.00
2-hexanone	<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	<5.00	<5.00	<5.00	<5.00
Acetone	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<5.00	<5.00	<5.00	<5.00
Antimony, total	<2.000	<2.000	<2.000	<2.000
Arsenic, total	<4.000	<4.000	<4.000	<4.000
Barium, total	99.6	129.0	110.0	113.0
Benzene	<1.00	<1.00	<1.00	<1.00
Beryllium, total	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00
Cadmium, total	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00
Chloride		4.4		
Chlorobenzene	<1.00	<1.00	<1.00	<1.00
Chloroethane	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00
Chromium, total	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00
Cobalt, total	<.4000	.7000	<.4000	<.4000
COD, total		<20		
Copper, total	<4.000	<4.000	<4.000	<4.000
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	<1.00	<1.00	<1.00	<1.00
Iodomethane	<1.0	<1.0	<1.0	<1.0
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000
Methylene chloride	<5.00	<5.00	<5.00	<5.00
Nickel, total	<4.000	<4.000	<4.000	<4.000
Nitrogen, Ammonia		<.1		
Selenium, total	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00
Thallium, total	<2.0000	<2.0000	<2.0000	<2.0000
Toluene	<1.00	<1.00	<1.00	<1.00
Total suspended solids				
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00
Turbidity, field				
Turbidity, lab				
Vanadium, total	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00
Zinc, total	<20.00	<20.00	<20.00	<20.00

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

Table 5

Analytical Data Summary for MW-14R

Constituents	Units	10/22/2014	4/27/2015	10/20/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017	4/11/2018
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	<.87	<.87	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone	ug/L	<.47	<.47	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
2-hexanone	ug/L	<.2	<.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	ug/L	<.22	<.22	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Acetone	ug/L	<1.79	<1.79	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	ug/L	<.53	<.53	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Antimony, total	ug/L	<6	<6	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<.945	<.945	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Barium, total	ug/L	51.0	47.8	46.2	43.8	53.2	47.4	52.4	62.7
Benzene	ug/L	<.11	<.11	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Beryllium, total	ug/L	<.100	<.039	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cadmium, total	ug/L	<.112	<.112	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	ug/L	<1.00	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroethane	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	ug/L	<.28	<.28	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium, total	ug/L	<1.24	<1.24	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	ug/L	<.2	<.1	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	ug/L	<2	<1	<4	<4	<4	<4	<4	<4
Dibromochloromethane	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	ug/L	<.8	<.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead, total	ug/L	<.5	<.5	<4.0	<4.0	<4.0	<4.0	<4.0	4.8
Methylene chloride	ug/L	<.17	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel, total	ug/L	<.581	<.581	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Selenium, total	ug/L	<3.34	<3.34	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	ug/L	<.042	<.042	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	ug/L	<.0325	<.0325	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Toluene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids	mg/L	8.5	7.0						
Trans-1,2-dichloroethylene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field	NTU	28.08	13.85						
Turbidity, lab	NTU	5.4	10.8						
Vanadium, total	ug/L	<.449	<.449	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	ug/L	<.74	<.74	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	ug/L	<.13	<.13	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	ug/L	<10.00	<6.95	22.40	<8.00	47.10	<8.00	33.10	92.60

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

Table 5

Analytical Data Summary for MW-14R

Constituents	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.00	<10.00
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4.000	4.700	8.100	5.300	<4.000	4.300	5.500	<4.000	<4.000
Barium, total	49.5	69.4	95.0	77.2	63.6	61.5	69.7	58.0	54.6
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Beryllium, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cadmium, total	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	<.8	<.8	<.8	<.4	<.4	<.4	<.4	.4	.8
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Selenium, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<4.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids									
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	<8.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 5

Analytical Data Summary for MW-14R

Constituents	4/3/2023	10/16/2023
1,1,1,2-tetrachloroethane	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00
1,2,3-trichloropropane	<1.00	<1.00
1,2-dibromo-3-chloropropane	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00
1,4-dichlorobenzene	<1.0	<1.0
2-butanone	<10.00	<10.00
2-hexanone	<5.0	<5.0
4-methyl-2-pentanone	<5.00	<5.00
Acetone	<10.00	<10.00
Acrylonitrile	<5.00	<5.00
Antimony, total	<2	<2
Arsenic, total	8.700	<4.000
Barium, total	88.9	48.4
Benzene	<1.00	<1.00
Beryllium, total	<4.000	<4.000
Bromochloromethane	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00
Bromoform	<1.00	<1.00
Bromomethane	<1.00	<1.00
Cadmium, total	<.800	<.800
Carbon disulfide	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00
Chlorobenzene	<1.00	<1.00
Chloroethane	<1.00	<1.00
Chloroform	<1.00	<1.00
Chloromethane	<1.00	<1.00
Chromium, total	<8.00	<8.00
Cis-1,2-dichloroethylene	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00
Cobalt, total	<.4	<.4
Copper, total	<4	<4
Dibromochloromethane	<1.0	<1.0
Dibromomethane	<1.00	<1.00
Ethylbenzene	<1.00	<1.00
Iodomethane	<1.0	<1.0
Lead, total	<4.0	<4.0
Methylene chloride	<5.00	<5.00
Nickel, total	<4.000	<4.000
Selenium, total	<4.00	<4.00
Silver, total	<4.000	<4.000
Styrene	<1.0	<1.0
Tetrachloroethylene	<1.00	<1.00
Thallium, total	<2.0000	<2.0000
Toluene	<1.00	<1.00
Total suspended solids		
Trans-1,2-dichloroethylene	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00
Trichloroethylene	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00
Turbidity, field		
Turbidity, lab		
Vanadium, total	<20.000	<20.000
Vinyl acetate	<5.00	<5.00
Vinyl chloride	<1.0	<1.0
Xylenes, total	<2.00	<2.00
Zinc, total	<20.00	<20.00

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

Table 6

Analytical Data Summary for MW-16

Constituents	Units	10/24/2014	4/7/2015	10/20/2015	4/11/2016	10/12/2016	4/13/2017	7/10/2017	10/26/2017
(3 4)-methylphenol	ug/L								<8
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00		<1.00
1,1,1-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00		<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0		<1.0
1,1,2-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00		<1.00
1,1-dichloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00		<1.00
1,1-dichloroethylene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00		<1.00
1,1-dichloropropene	ug/L								<1
1,2,3-trichloropropane	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00		<1.00
1,2,4,5-tetrachlorobenzene	ug/L								<8
1,2,4-trichlorobenzene	ug/L								<1
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50	<1.00	<1.00	<1.00	<1.00		<1.00
1,2-dibromoethane	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00		<1.00
1,2-dichlorobenzene	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00		<1.00
1,2-dichloroethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00		<1.00
1,2-dichloropropane	ug/L	<.87	<.87	<1.00	<1.00	<1.00	<1.00		<1.00
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	<.2	<.2	<1.0	<1.0	<1.0	<1.0		<1.0
1,4-naphthoquinone	ug/L								<8
1,4-phenylenediamine	ug/L								<8
1-naphthylamine	ug/L								<8
2,2-dichloropropane	ug/L								<1
2,3,4,6-tetrachlorophenol	ug/L								<8
2,4,5-t	ug/L								<.5
2,4,5-tp (silvex)	ug/L								<.5
2,4,5-trichlorophenol	ug/L								<8
2,4,6-trichlorophenol	ug/L								<8
2,4-d	ug/L								<2
2,4-dichlorophenol	ug/L								<8
2,4-dimethylphenol	ug/L								<8
2,4-dinitrophenol	ug/L								<8
2,4-dinitrotoluene	ug/L								<8
2,6-dichlorophenol	ug/L								<8
2,6-dinitrotoluene	ug/L								<8
2-acetylaminofluorene	ug/L								<8
2-butanone	ug/L	<.47	<.47	<5.00	<5.00	<5.00	<5.00		<5.00
2-chloronaphthalene	ug/L								<8
2-chlorophenol	ug/L								<8
2-hexanone	ug/L	<.2	<.2	<5.0	<5.0	<5.0	<5.0		<5.0
2-methylnaphthalene	ug/L								<8
2-methylphenol (o-cresol)	ug/L								<8
2-naphthylamine	ug/L								<8
2-nitroaniline	ug/L								<8
2-nitrophenol	ug/L								<8
3,3´-dichlorobenzidine	ug/L								<8
3,3'-dimethylbenzidine	ug/L								<8
3-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	ug/L	<.22	<.22	<5.00	<5.00	<5.00	<5.00		<5.00
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	<1.79	<1.79	<10.00	<10.00	<10.00	<10.00		<10.00
Acetonitrile	ug/L								<10
Acetophenone	ug/L								<8
Acrolein	ug/L								<10
Acrylonitrile	ug/L	<.53	<.53	<5.00	<5.00	<5.00	<5.00		<5.00
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 6

Analytical Data Summary for MW-16

Constituents	4/11/2018	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022
(3 4)-methylphenol	<8								
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene	<1								
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene	<8								
1,2,4-trichlorobenzene	<1								
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene	<8								
1,3,5-trinitrobenzene	<8								
1,3-dichlorobenzene	<1								
1,3-dichloropropane	<1								
1,3-dinitrobenzene	<8								
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone	<8								
1,4-phenylenediamine	<8								
1-naphthylamine	<8								
2,2-dichloropropane	<1								
2,3,4,6-tetrachlorophenol	<8								
2,4,5-t	<.5								
2,4,5-tp (silvex)	<.5								
2,4,5-trichlorophenol	<8								
2,4,6-trichlorophenol	<8								
2,4-d	<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	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.00
2-chloronaphthalene	<8								
2-chlorophenol	<8								
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene	<8								
2-methylphenol (o-cresol)	<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	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
4-nitroaniline	<8								
4-nitrophenol	<8								
5-nitro-o-toluidine	<8								
7,12-dimethylbenz [a] anthracene	<8								
Acenaphthene	<8								
Acenaphthylene	<8								
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	<10								
Acetophenone	<8								
Acrolein	<10								
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin	<.05								
Allyl chloride	<1								
Alpha-bhc	<.05								
Anthracene	<8								

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

Table 6

Analytical Data Summary for MW-16

Constituents	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
(3 4)-methylphenol					
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene					
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene					
1,2,4-trichlorobenzene					
1,2-dibromo-3-chloropropane	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene					
1,3,5-trinitrobenzene					
1,3-dichlorobenzene					
1,3-dichloropropane					
1,3-dinitrobenzene					
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone					
1,4-phenylenediamine					
1-naphthylamine					
2,2-dichloropropane					
2,3,4,6-tetrachlorophenol					
2,4,5-t					
2,4,5-tp (silvex)					
2,4,5-trichlorophenol					
2,4,6-trichlorophenol					
2,4-d					
2,4-dichlorophenol					
2,4-dimethylphenol					
2,4-dinitrophenol					
2,4-dinitrotoluene					
2,6-dichlorophenol					
2,6-dinitrotoluene					
2-acetylaminofluorene					
2-butanone	<10.00	<10.00	<10.00	<10.00	<10.00
2-chloronaphthalene					
2-chlorophenol					
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene					
2-methylphenol (o-cresol)					
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	<5.00	<5.00	<5.00	<5.00	<5.00
4-nitroaniline					
4-nitrophenol					
5-nitro-o-toluidine					
7,12-dimethylbenz [a] anthracene					
Acenaphthene					
Acenaphthylene					
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile					
Acetophenone					
Acrolein					
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin					
Allyl chloride					
Alpha-bhc					
Anthracene					

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

Table 6

Analytical Data Summary for MW-16

Constituents	Units	10/24/2014	4/7/2015	10/20/2015	4/11/2016	10/12/2016	4/13/2017	7/10/2017	10/26/2017
Antimony, total	ug/L	<.541	<.161	<2.000	<2.000	4.000	<2.000		<2.000
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	<.945	<.945	<4.000	<4.000	<4.000	<4.000		<4.000
Azobenzene	ug/L								<8
Barium, total	ug/L	124.0	119.0	125.0	137.0	125.0	136.0		164.0
Benzene	ug/L	<.11	<.11	<1.00	<1.00	<1.00	<1.00		<1.00
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	<.039	<.039	<4.000	<4.000	<4.000	<4.000		<4.000
Beta-bhc	ug/L								<.05
Bis (2-chloroethoxy) methane	ug/L								<8
Bis(2-chloroethyl) ether	ug/L								<8
Bis(2-ethylhexyl) phthalate	ug/L								<6
Bis[2-chloroisopropyl]ether	ug/L								<8
Bromochloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00		<1.00
Bromodichloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00		<1.00
Bromoform	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00		<1.00
Bromomethane	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00		<1.00
Butyl benzyl phthalate	ug/L								<8
Cadmium, total	ug/L	<.112	<.112	<.800	<.800	<.800	<.800		<.800
Carbon disulfide	ug/L	2.97	<.15	<1.00	<1.00	<1.00	<1.00		<1.00
Carbon tetrachloride	ug/L	<.24	<.24	<1.00	<1.00	<1.00	<1.00		<1.00
Chlordane	ug/L								<.1
Chloride	mg/L								
Chlorobenzene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00		<1.00
Chlorobenzilate	ug/L								<8
Chloroethane	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00		<1.00
Chloroform	ug/L	<.28	<.28	<1.00	<1.00	<1.00	<1.00		<1.00
Chloromethane	ug/L	<.31	<.31	<1.00	<1.00	<1.00	<1.00		<1.00
Chloroprene	ug/L								<1
Chromium, total	ug/L	<1.24	<1.24	<8.00	<8.00	<8.00	<8.00		<8.00
Chrysene	ug/L								<8
Cis-1,2-dichloroethylene	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00		<1.00
Cis-1,3-dichloropropene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00		<1.00
Cobalt, total	ug/L	<.2000	<.0528	<.8000	<.8000	<.8000	<.8000		<.8000
COD, total	mg/L								
Copper, total	ug/L	<10.000	<.485	<4.000	<4.000	<4.000	<4.000		<4.000
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	<.2	<.2	<1.0	<1.0	<1.0	<1.0		<1.0
Dibromomethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00		<1.00
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	<.21	<.21	<1.00	<1.00	<1.00	<1.00		<1.00
Famphur	ug/L								<.4
Fluoranthene	ug/L								<8
Fluorene	ug/L								<8
Gamma-bhc [lindane]	ug/L								<.05
Heptachlor	ug/L								<.05

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

Table 6

Analytical Data Summary for MW-16

Constituents	4/11/2018	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arochlor 1016	<.1								
Arochlor 1221	<.2								
Arochlor 1232	<.2								
Arochlor 1242	<.2								
Arochlor 1248	<.2								
Arochlor 1254	<.1								
Arochlor 1260	<.1								
Arsenic, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Azobenzene	<8								
Barium, total	124.0	92.2	132.0	146.0	144.0	150.0	142.0	149.0	150.0
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc	<.05								
Bis (2-chloroethoxy) methane	<8								
Bis(2-chloroethyl) ether	<8								
Bis(2-ethylhexyl) phthalate	<6								
Bis[2-chloroisopropyl]ether	<8								
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate	<8								
Cadmium, total	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane	<.1								
Chloride									
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate	<8								
Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene	<1								
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene	<8								
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	<.8000	<.8000	<.8000	<.8000	<.4000	<.4000	<.4000	<.4000	<.4000
COD, total									
Copper, total	<4.000	4.900	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Cyanide, total	<.005								
Delta-bhc	<.05								
Diallate	<8								
Dibenzo(a,h)anthracene	<8								
Dibenzofuran	<8								
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur	<.4								
Fluoranthene	<8								
Fluorene	<8								
Gamma-bhc [lindane]	<.05								
Heptachlor	<.05								

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

Table 6

Analytical Data Summary for MW-16

Constituents	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000
Arochlor 1016					
Arochlor 1221					
Arochlor 1232					
Arochlor 1242					
Arochlor 1248					
Arochlor 1254					
Arochlor 1260					
Arsenic, total	<4.000	<4.000	<4.000	<4.000	<4.000
Azobenzene					
Barium, total	131.0	141.0	133.0	121.0	140.0
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00
Benzo(a)anthracene					
Benzo(a)pyrene					
Benzo(b)fluoranthene					
Benzo(g,h,i)perylene					
Benzo(k)fluoranthene					
Benzyl alcohol					
Beryllium, total	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc					
Bis (2-chloroethoxy) methane					
Bis(2-chloroethyl) ether					
Bis(2-ethylhexyl) phthalate					
Bis[2-chloroisopropyl]ether					
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate					
Cadmium, total	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane					
Chloride			28.9		
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate					
Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene					
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene					
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	.4000	<.4000	<.4000	<.4000	<.4000
COD, total			<20		
Copper, total	<4.000	<4.000	<4.000	<4.000	<4.000
Cyanide, total					
Delta-bhc					
Diallate					
Dibenzo(a,h)anthracene					
Dibenzofuran					
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
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	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur					
Fluoranthene					
Fluorene					
Gamma-bhc [lindane]					
Heptachlor					

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

Table 6

Analytical Data Summary for MW-16

Constituents	Units	10/24/2014	4/7/2015	10/20/2015	4/11/2016	10/12/2016	4/13/2017	7/10/2017	10/26/2017
Heptachlor epoxide	ug/L								<.05
Hexachlorobenzene	ug/L								<.05
Hexachlorobutadiene	ug/L								<8
Hexachlorocyclopentadiene	ug/L								<8
Hexachloroethane	ug/L								<8
Hexachloropropene	ug/L								<8
Indeno(1,2,3-cd)pyrene	ug/L								<8
Iodomethane	ug/L	<.8	<.8	<1.0	<1.0	<1.0	<1.0		<1.0
Isobutanol	mg/L								<1
Isodrin	ug/L								<8
Isophorone	ug/L								<8
Isosafrole	ug/L								<8
Kepone	ug/L								<8
Lead, total	ug/L	<.0967	<.5000	<4.0000	<4.0000	<4.0000	<4.0000		<4.0000
Mercury, total	ug/L								<.5
Methacrylonitrile	ug/L								<1
Methapyrilene	ug/L								<8
Methoxychlor	ug/L								<.05
Methyl methacrylate	ug/L								<1
Methyl methanesulfonate	ug/L								<8
Methyl parathion	ug/L								<.4
Methylene chloride	ug/L	<.17	<1.00	<5.00	<5.00	<5.00	<5.00		<5.00
Naphthalene	ug/L								<8
Nickel, total	ug/L	<10.0	<10.0	<4.0	<4.0	<4.0	<4.0		6.3
Nitrobenzene	ug/L								<8
Nitrogen, Ammonia	mg/L								
N-nitrosodiethylamine	ug/L								<8
N-nitrosodimethylamine	ug/L								<8
N-nitrosodi-n-butylamine	ug/L								<8
N-nitroso-di-n-propylamine	ug/L								<8
N-nitrosodiphenylamine	ug/L								<8
N-nitrosomethylethylamine	ug/L								<8
N-nitrosopiperidine	ug/L								<8
N-nitrosopyrrolidine	ug/L								<8
O,o,o-triethyl phosphorothioate	ug/L								<.4
O-toluidine	ug/L								<8
P-(dimethylamino)azobenzene	ug/L								<8
Parathion	ug/L								<.4
Pentachlorobenzene	ug/L								<8
Pentachloronitrobenzene (pcnb)	ug/L								<8
Pentachlorophenol	ug/L								<8
Phenacetin	ug/L								<8
Phenanthrene	ug/L								<8
Phenol	ug/L								<8
Phorate	ug/L								<.4
Pronamide	ug/L								<8
Propionitrile	ug/L								<10
Pyrene	ug/L								<8
Safrole	ug/L								<8
Selenium, total	ug/L	<3.34	<3.34	<4.00	<4.00	<4.00	<4.00		<4.00
Silver, total	ug/L	<.042	<.042	<4.000	<4.000	<4.000	<4.000		<4.000
Styrene	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0		<1.0
Sulfide, total	mg/L								.13
Tetrachloroethylene	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00		<1.00
Thallium, total	ug/L	<.0325	<1.0000	<4.0000	<4.0000	<4.0000	<4.0000		<4.0000
Thionazin	ug/L								<.4
Tin, total	ug/L								<20
Toluene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00		<1.00
Total suspended solids	mg/L	<1.41	<1.60						
Toxaphene	ug/L								<.2
Trans-1,2-dichloroethylene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00		<1.00
Trans-1,3-dichloropropene	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00		<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13	<5.00	<5.00	<5.00	<5.00		<5.00
Trichloroethylene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00		<1.00
Trichlorofluoromethane	ug/L	<.17	<.17	<1.00	<1.00	<1.00	<1.00		<1.00
Turbidity, field	NTU	53.810	1.064						
Turbidity, lab	NTU	1.1	<.7						
Vanadium, total	ug/L	<.449	<.449	<20.000	<20.000	<20.000	<20.000		<20.000
Vinyl acetate	ug/L	<.74	<.74	<5.00	<5.00	<5.00	<5.00		<5.00
Vinyl chloride	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0		<1.0
Xylenes, total	ug/L	<.13	<.13	<2.00	<2.00	<2.00	<2.00		<2.00
Zinc, total	ug/L	<6.95	<6.95	<8.00	<8.00	<20.00	8.40	<20.00	<8.00

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

Table 6

Analytical Data Summary for MW-16

Constituents	4/11/2018	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022
Heptachlor epoxide	<.05								
Hexachlorobenzene	<.05								
Hexachlorobutadiene	<8								
Hexachlorocyclopentadiene	<8								
Hexachloroethane	<8								
Hexachloropropene	<8								
Indeno(1,2,3-cd)pyrene	<8								
Iodomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isobutanol	<1								
Isodrin	<8								
Isophorone	<8								
Isosafrole	<8								
Kepone	<8								
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total	<.5								
Methacrylonitrile	<1								
Methapyrilene	<8								
Methoxychlor	<.05								
Methyl methacrylate	<1								
Methyl methanesulfonate	<8								
Methyl parathion	<.4								
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene	<8								
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Nitrobenzene	<8								
Nitrogen, Ammonia									
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								
P-(dimethylamino)azobenzene	<8								
Parathion	<.4								
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	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total	<.10	<.10	<.10	<.10	<.10	<.10			
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<4.0000	<4.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Thionazin	<.4								
Tin, total	<20								
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids									
Toxaphene	<.2								
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	<20.00	<8.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 6

Analytical Data Summary for MW-16

Constituents	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
Heptachlor epoxide					
Hexachlorobenzene					
Hexachlorobutadiene					
Hexachlorocyclopentadiene					
Hexachloroethane					
Hexachloropropene					
Indeno(1,2,3-cd)pyrene					
Iodomethane	<1.0	<1.0	<1.0	<1.0	<1.0
Isobutanol					
Isodrin					
Isophorone					
Isosafrole					
Kepone					
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total					
Methacrylonitrile					
Methapyrilene					
Methoxychlor					
Methyl methacrylate					
Methyl methanesulfonate					
Methyl parathion					
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene					
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0
Nitrobenzene					
Nitrogen, Ammonia			.13		
N-nitrosodiethylamine					
N-nitrosodimethylamine					
N-nitrosodi-n-butylamine					
N-nitroso-di-n-propylamine					
N-nitrosodiphenylamine					
N-nitrosomethylethylamine					
N-nitrosopiperidine					
N-nitrosopyrrolidine					
O,o,o-triethyl phosphorothioate					
O-toluidine					
P-(dimethylamino)azobenzene					
Parathion					
Pentachlorobenzene					
Pentachloronitrobenzene (pcnb)					
Pentachlorophenol					
Phenacetin					
Phenanthrene					
Phenol					
Phorate					
Pronamide					
Propionitrile					
Pyrene					
Safrole					
Selenium, total	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total					
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Thionazin					
Tin, total					
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids					
Toxaphene					
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field					
Turbidity, lab					
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 7

Analytical Data Summary for MW-17

Constituents	Units	10/24/2014	4/7/2015	10/20/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017	4/11/2018
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	<.87	<.87	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone	ug/L	<.47	<.47	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
2-hexanone	ug/L	<.2	<.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	ug/L	<.22	<.22	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Acetone	ug/L	<1.79	<1.79	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	ug/L	<.53	<.53	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Antimony, total	ug/L	<.541	<.161	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arsenic, total	ug/L	<.945	<.945	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Barium, total	ug/L	104.0	106.0	93.0	104.0	93.6	107.0	98.8	102.0
Benzene	ug/L	<.11	<.11	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Beryllium, total	ug/L	<.039	<.039	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cadmium, total	ug/L	<.112	<.112	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	ug/L	1.34	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloride	mg/L								
Chlorobenzene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroethane	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	ug/L	<.28	<.28	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium, total	ug/L	<1.24	<1.24	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	ug/L	<.2	<.2	<.8	<.8	<.8	<.8	<.8	<.8
COD, total	mg/L								
Copper, total	ug/L	3.650	<.485	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Dibromochloromethane	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	ug/L	<.8	<.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead, total	ug/L	<.5	<.5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methylene chloride	ug/L	<.17	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel, total	ug/L	<1.000	<.581	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Nitrogen, Ammonia	mg/L								
Selenium, total	ug/L	<3.34	<3.34	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	ug/L	<.042	<.042	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	ug/L	<.0325	<1.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Toluene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids	mg/L	2.67	<1.60						
Trans-1,2-dichloroethylene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field	NTU	6.0140	.3102						
Turbidity, lab	NTU	1.3	1.0						
Vanadium, total	ug/L	<.449	<.449	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	ug/L	<.74	<.74	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	ug/L	<.13	<.13	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	ug/L	<6.95	<6.95	<8.00	<8.00	<20.00	<8.00	<8.00	<20.00

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

Table 7

Analytical Data Summary for MW-17

Constituents	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.00	<10.00
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arsenic, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Barium, total	113.0	109.0	108.0	110.0	104.0	109.0	102.0	115.0	123.0
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Beryllium, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cadmium, total	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloride									
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	<.8	<.8	<.8	<.4	<.4	<.4	<.4	<.4	<.4
COD, total									
Copper, total	7.900	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead, total	7.3	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Nitrogen, Ammonia									
Selenium, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<4.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids									
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	382.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 7

Analytical Data Summary for MW-17

Constituents	4/3/2023	10/16/2023	4/22/2024	10/7/2024
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0
2-butanone	<10.00	<10.00	<10.00	<10.00
2-hexanone	<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	<5.00	<5.00	<5.00	<5.00
Acetone	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<5.00	<5.00	<5.00	<5.00
Antimony, total	<2.000	<2.000	<2.000	<2.000
Arsenic, total	<4.000	<4.000	<4.000	<4.000
Barium, total	109.0	111.0	103.0	97.6
Benzene	<1.00	<1.00	<1.00	<1.00
Beryllium, total	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00
Cadmium, total	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00
Chloride		24.1		
Chlorobenzene	<1.00	<1.00	<1.00	<1.00
Chloroethane	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00
Chromium, total	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00
Cobalt, total	<.4	<.4	<.4	<.4
COD, total		<20		
Copper, total	<4.000	<4.000	<4.000	<4.000
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	<1.00	<1.00	<1.00	<1.00
Iodomethane	<1.0	<1.0	<1.0	<1.0
Lead, total	<4.0	<4.0	<4.0	<4.0
Methylene chloride	<5.00	<5.00	<5.00	<5.00
Nickel, total	<4.000	<4.000	<4.000	<4.000
Nitrogen, Ammonia		<.1		
Selenium, total	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00
Thallium, total	<2.0000	<2.0000	<2.0000	<2.0000
Toluene	<1.00	<1.00	<1.00	<1.00
Total suspended solids				
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00
Turbidity, field				
Turbidity, lab				
Vanadium, total	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00
Zinc, total	<20.00	<20.00	<20.00	<20.00

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

Table 8

Analytical Data Summary for MW-18

Constituents	Units	10/21/2014	4/7/2015	10/20/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017	4/11/2018
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	<.87	<.87	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone	ug/L	<.47	<.47	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
2-hexanone	ug/L	<.2	<.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	ug/L	<.22	<.22	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Acetone	ug/L	<1.79	<1.79	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	ug/L	<.53	<.53	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Antimony, total	ug/L	<.161	<.161	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arsenic, total	ug/L	<.945	<.945	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Barium, total	ug/L	511	433	456	387	445	448	456	501
Benzene	ug/L	<.11	<.11	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Beryllium, total	ug/L	<.039	<.039	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cadmium, total	ug/L	<.112	<.112	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	ug/L	1.17	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroethane	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	ug/L	<.28	<.28	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium, total	ug/L	<1.24	<1.24	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	ug/L	.756	<1.000	<.800	<.800	<.800	<.800	<.800	<.800
Copper, total	ug/L	<.485	<.485	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Dibromochloromethane	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	ug/L	<.8	<.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead, total	ug/L	<.0967	<.0967	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Methylene chloride	ug/L	<.17	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel, total	ug/L	<2.000	<.581	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Selenium, total	ug/L	<3.34	<3.34	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	ug/L	<.042	<.042	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	ug/L	<.0325	<.0325	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Toluene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids	mg/L	<1.41	<1.60						
Trans-1,2-dichloroethylene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field	NTU	3.194	1.832						
Turbidity, lab	NTU	<.6	<.7						
Vanadium, total	ug/L	<.449	<.449	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	ug/L	<.74	<.74	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	ug/L	<.13	<.13	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	ug/L	<6.95	<6.95	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00

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

Table 8

Analytical Data Summary for MW-18

Constituents	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.00	<10.00
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arsenic, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Barium, total	467	442	537	432	443	420	411	440	430
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Beryllium, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cadmium, total	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	<.800	<.800	<.800	<.400	<.400	<.400	<.400	<.400	<.400
Copper, total	4.500	<4.000	<4.000	<4.000	<4.000	<4.000	11.900	<4.000	<4.000
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Selenium, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<4.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids									
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	<8.00	<20.00	<8.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 8

Analytical Data Summary for MW-18

Constituents	4/3/2023	10/16/2023
1,1,1,2-tetrachloroethane	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00
1,2,3-trichloropropane	<1.00	<1.00
1,2-dibromo-3-chloropropane	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00
1,4-dichlorobenzene	<1.0	<1.0
2-butanone	<10.00	<10.00
2-hexanone	<5.0	<5.0
4-methyl-2-pentanone	<5.00	<5.00
Acetone	<10.00	<10.00
Acrylonitrile	<5.00	<5.00
Antimony, total	<2.000	<2.000
Arsenic, total	<4.000	<4.000
Barium, total	432	457
Benzene	<1.00	<1.00
Beryllium, total	<4.000	<4.000
Bromochloromethane	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00
Bromoform	<1.00	<1.00
Bromomethane	<1.00	<1.00
Cadmium, total	<.800	<.800
Carbon disulfide	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00
Chlorobenzene	<1.00	<1.00
Chloroethane	<1.00	<1.00
Chloroform	<1.00	<1.00
Chloromethane	<1.00	<1.00
Chromium, total	<8.00	<8.00
Cis-1,2-dichloroethylene	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00
Cobalt, total	<.400	<.400
Copper, total	<4.000	<4.000
Dibromochloromethane	<1.0	<1.0
Dibromomethane	<1.00	<1.00
Ethylbenzene	<1.00	<1.00
Iodomethane	<1.0	<1.0
Lead, total	<4.0000	<4.0000
Methylene chloride	<5.00	<5.00
Nickel, total	<4.000	<4.000
Selenium, total	<4.00	<4.00
Silver, total	<4.000	<4.000
Styrene	<1.0	<1.0
Tetrachloroethylene	<1.00	<1.00
Thallium, total	<2.0000	<2.0000
Toluene	<1.00	<1.00
Total suspended solids		
Trans-1,2-dichloroethylene	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00
Trichloroethylene	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00
Turbidity, field		
Turbidity, lab		
Vanadium, total	<20.000	<20.000
Vinyl acetate	<5.00	<5.00
Vinyl chloride	<1.0	<1.0
Xylenes, total	<2.00	<2.00
Zinc, total	<20.00	<20.00

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

Table 9

Analytical Data Summary for MW-20

Constituents	Units	10/21/2014	4/6/2015	10/20/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017	4/11/2018
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	<.87	<.87	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone	ug/L	<.47	<.47	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
2-hexanone	ug/L	<.2	<.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	ug/L	<.22	<.22	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Acetone	ug/L	<1.79	<1.79	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	ug/L	<.53	<.53	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Antimony, total	ug/L	<.161	<.161	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arsenic, total	ug/L	<2	<2	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	123.0	121.0	98.2	83.6	115.0	105.0	93.0	102.0
Benzene	ug/L	<.11	<.11	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Beryllium, total	ug/L	<.039	<.039	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cadmium, total	ug/L	<.112	<.112	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	ug/L	<1.00	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroethane	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	ug/L	<.28	<.28	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium, total	ug/L	<1.24	<1.24	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	ug/L	<.0528	<1.0000	<.8000	<.8000	<.8000	<.8000	<.8000	<.8000
Copper, total	ug/L	<.485	<.485	<4.000	<4.000	<4.000	18.700	<4.000	4.600
Dibromochloromethane	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	ug/L	<.8	<.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead, total	ug/L	<.0967	<.0967	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Methylene chloride	ug/L	<.17	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel, total	ug/L	<.581	<.581	<4.000	<4.000	<4.000	4.500	<4.000	<4.000
Selenium, total	ug/L	<3.34	<3.34	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	ug/L	<.042	<.042	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	ug/L	<.0325	<.0325	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Toluene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids	mg/L	1.88	<1.60						
Trans-1,2-dichloroethylene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field	NTU	.4903	1.2280						
Turbidity, lab	NTU	5.9	6.5						
Vanadium, total	ug/L	<.449	<.449	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	ug/L	<.74	<.74	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	ug/L	<.13	<.13	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	ug/L	<6.95	<6.95	26.70	<8.00	13.70	21.10	15.50	11.00

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

Table 9

Analytical Data Summary for MW-20

Constituents	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<5.00		<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
2-butanone	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<10.00	<10.00
2-hexanone	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00
Acetone	<10.00	<10.00	<10.00	<10.00		<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	98.8	101.0	109.0	89.1	94.3	89.6	84.8	93.7	112.0
Benzene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Beryllium, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Cadmium, total	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Chlorobenzene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Chloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Cobalt, total	<.8000	<.8000	<.8000	<.4000	<.4000	<.4000	1.0000	<.4000	<.4000
Copper, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Ethylbenzene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Iodomethane	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Methylene chloride	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00
Nickel, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Selenium, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Thallium, total	<4.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Toluene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Total suspended solids									
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00		<2.00	<2.00	<2.00	<2.00
Zinc, total	11.70	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 9

Analytical Data Summary for MW-20

Constituents	4/3/2023	10/16/2023
1,1,1,2-tetrachloroethane	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00
1,2,3-trichloropropane	<1.00	<1.00
1,2-dibromo-3-chloropropane	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00
1,4-dichlorobenzene	<1.0	<1.0
2-butanone	<10.00	<10.00
2-hexanone	<5.0	<5.0
4-methyl-2-pentanone	<5.00	<5.00
Acetone	<10.00	<10.00
Acrylonitrile	<5.00	<5.00
Antimony, total	<2.000	<2.000
Arsenic, total	<4	<4
Barium, total	108.0	103.0
Benzene	<1.00	<1.00
Beryllium, total	<4.000	<4.000
Bromochloromethane	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00
Bromoform	<1.00	<1.00
Bromomethane	<1.00	<1.00
Cadmium, total	<.800	<.800
Carbon disulfide	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00
Chlorobenzene	<1.00	<1.00
Chloroethane	<1.00	<1.00
Chloroform	<1.00	<1.00
Chloromethane	<1.00	<1.00
Chromium, total	<8.00	<8.00
Cis-1,2-dichloroethylene	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00
Cobalt, total	.5000	<.4000
Copper, total	<4.000	<4.000
Dibromochloromethane	<1.0	<1.0
Dibromomethane	<1.00	<1.00
Ethylbenzene	<1.00	<1.00
Iodomethane	<1.0	<1.0
Lead, total	<4.0000	<4.0000
Methylene chloride	<5.00	<5.00
Nickel, total	<4.000	<4.000
Selenium, total	<4.00	<4.00
Silver, total	<4.000	<4.000
Styrene	<1.0	<1.0
Tetrachloroethylene	<1.00	<1.00
Thallium, total	<2.0000	<2.0000
Toluene	<1.00	<1.00
Total suspended solids		
Trans-1,2-dichloroethylene	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00
Trichloroethylene	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00
Turbidity, field		
Turbidity, lab		
Vanadium, total	<20.000	<20.000
Vinyl acetate	<5.00	<5.00
Vinyl chloride	<1.0	<1.0
Xylenes, total	<2.00	<2.00
Zinc, total	<20.00	<20.00

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

Table 10

Analytical Data Summary for MW-21

Constituents	Units	10/24/2014	4/7/2015	10/20/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017	4/11/2018
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	<.87	<.87	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone	ug/L	<.47	<.47	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
2-hexanone	ug/L	<.2	<.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	ug/L	<.22	<.22	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Acetone	ug/L	<1.79	<1.79	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	ug/L	<.53	<.53	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Antimony, total	ug/L	<.161	<.161	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arsenic, total	ug/L	<.945	<.945	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Barium, total	ug/L	51.9	48.7	36.1	55.9	66.9	49.2	98.3	35.3
Benzene	ug/L	<.11	<.11	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Beryllium, total	ug/L	<.039	<.039	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cadmium, total	ug/L	<.112	<.112	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	ug/L	<1.00	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroethane	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	ug/L	<.28	<.28	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium, total	ug/L	<1.24	<1.24	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	ug/L	<.0528	<.0528	<.8000	<.8000	<.8000	<.8000	<.8000	<.8000
Copper, total	ug/L	<.485	<.485	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Dibromochloromethane	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	ug/L	<.8	<.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead, total	ug/L	<.0967	<.5000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Methylene chloride	ug/L	<.17	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel, total	ug/L	<10.000	<.581	4.300	<4.000	<4.000	<4.000	<4.000	<4.000
Selenium, total	ug/L	<3.34	<3.34	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	ug/L	<.042	<.042	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	ug/L	<.0325	<.0325	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Toluene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids	mg/L	<1.41	<1.60						
Trans-1,2-dichloroethylene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field	NTU	1.356	2.419						
Turbidity, lab	NTU	<.6	1.4						
Vanadium, total	ug/L	<.449	<.449	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	ug/L	<.74	<.74	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	ug/L	<.13	<.13	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	ug/L	<6.95	<6.95	<8.00	<8.00	<20.00	<8.00	<8.00	20.80

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

Table 10

Analytical Data Summary for MW-21

Constituents	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022	4/3/2023
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<5.00		<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
2-butanone	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<10.00	<10.00
2-hexanone	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0
4-methyl-2-pentanone	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00
Acetone	<10.00	<10.00	<10.00	<10.00		<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arsenic, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Barium, total	64.7	85.0	64.0	48.7	99.4	38.6	104.0	52.1	41.9
Benzene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Beryllium, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Bromochloromethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Cadmium, total	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Chlorobenzene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Chloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Cobalt, total	<.8000	<.8000	<.8000	<.4000	.4000	<.4000	<.4000	<.4000	<.4000
Copper, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Ethylbenzene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Iodomethane	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Methylene chloride	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00
Nickel, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Selenium, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Thallium, total	<4.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Toluene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Total suspended solids									
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00		<2.00	<2.00	<2.00	<2.00
Zinc, total	<8.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 10

Analytical Data Summary for MW-21

Constituents	4/22/2024	10/7/2024
1,1,1,2-tetrachloroethane	<1.00	
1,1,1-trichloroethane	<1.00	
1,1,2,2-tetrachloroethane	<1.0	
1,1,2-trichloroethane	<1.00	
1,1-dichloroethane	<1.00	
1,1-dichloroethylene	<1.00	
1,2,3-trichloropropane	<1.00	
1,2-dibromo-3-chloropropane	<5.00	
1,2-dibromoethane	<1.00	
1,2-dichlorobenzene	<1.00	
1,2-dichloroethane	<1.00	
1,2-dichloropropane	<1.00	
1,4-dichlorobenzene	<1.0	
2-butanone	<10.00	
2-hexanone	<5.0	
4-methyl-2-pentanone	<5.00	
Acetone	<10.00	
Acrylonitrile	<5.00	
Antimony, total	<2.000	<2.000
Arsenic, total	<4.000	<4.000
Barium, total	45.2	208.0
Benzene	<1.00	
Beryllium, total	<4.000	<4.000
Bromochloromethane	<1.00	
Bromodichloromethane	<1.00	
Bromoform	<1.00	
Bromomethane	<1.00	
Cadmium, total	<.800	<.800
Carbon disulfide	<1.00	
Carbon tetrachloride	<1.00	
Chlorobenzene	<1.00	
Chloroethane	<1.00	
Chloroform	<1.00	
Chloromethane	<1.00	
Chromium, total	<8.00	<8.00
Cis-1,2-dichloroethylene	<1.00	
Cis-1,3-dichloropropene	<1.00	
Cobalt, total	<.4000	2.9000
Copper, total	<4.000	<4.000
Dibromochloromethane	<1.0	
Dibromomethane	<1.00	
Ethylbenzene	<1.00	
Iodomethane	<1.0	
Lead, total	<4.0000	<4.0000
Methylene chloride	<5.00	
Nickel, total	<4.000	11.600
Selenium, total	<4.00	<4.00
Silver, total	<4.000	<4.000
Styrene	<1.0	
Tetrachloroethylene	<1.00	
Thallium, total	<2.0000	<2.0000
Toluene	<1.00	
Total suspended solids		
Trans-1,2-dichloroethylene	<1.00	
Trans-1,3-dichloropropene	<1.00	
Trans-1,4-dichloro-2-butene	<5.00	
Trichloroethylene	<1.00	
Trichlorofluoromethane	<1.00	
Turbidity, field		
Turbidity, lab		
Vanadium, total	<20.000	<20.000
Vinyl acetate	<5.00	
Vinyl chloride	<1.0	
Xylenes, total	<2.00	
Zinc, total	<20.00	<20.00

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

Table 11

Analytical Data Summary for MW-24

Constituents	Units	10/29/2014	4/28/2015	10/21/2015	4/11/2016	10/11/2016	4/12/2017	10/26/2017	4/11/2018
(3 4)-methylphenol	ug/L			<8	<8				
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	<1.00	<.21	1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene	ug/L			<1	<1				
1,2,3-trichloropropane	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene	ug/L			<8	<8				
1,2,4-trichlorobenzene	ug/L			<1	<1				
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	<.87	<.87	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene	ug/L			<8	<8				
1,3,5-trinitrobenzene	ug/L			<8	<8				
1,3-dichlorobenzene	ug/L			<1	<1				
1,3-dichloropropane	ug/L			<1	<1				
1,3-dinitrobenzene	ug/L			<8	<8				
1,4-dichlorobenzene	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone	ug/L			<8	<8				
1,4-phenylenediamine	ug/L			<8	<8				
1-naphthylamine	ug/L			<8	<8				
2,2-dichloropropane	ug/L			<1	<1				
2,3,4,6-tetrachlorophenol	ug/L			<8	<8				
2,4,5-t	ug/L			<.5	<.5				
2,4,5-tp (silvex)	ug/L			<.5	<.5				
2,4,5-trichlorophenol	ug/L			<8	<8				
2,4,6-trichlorophenol	ug/L			<8	<8				
2,4-d	ug/L			<2	<2				
2,4-dichlorophenol	ug/L			<8	<8				
2,4-dimethylphenol	ug/L			<8	<8				
2,4-dinitrophenol	ug/L			<8	<8				
2,4-dinitrotoluene	ug/L			<8	<8				
2,6-dichlorophenol	ug/L			<8	<8				
2,6-dinitrotoluene	ug/L			<8	<8				
2-acetylaminofluorene	ug/L			<8	<8				
2-butanone	ug/L	<.47	<.47	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
2-chloronaphthalene	ug/L			<8	<8				
2-chlorophenol	ug/L			<8	<8				
2-hexanone	ug/L	<.2	<.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene	ug/L			<8	<8				
2-methylphenol (o-cresol)	ug/L			<8	<8				
2-naphthylamine	ug/L			<8	<8				
2-nitroaniline	ug/L			<8	<8				
2-nitrophenol	ug/L			<8	<8				
3,3´-dichlorobenzidine	ug/L			<8	<8				
3,3'-dimethylbenzidine	ug/L			<8	<8				
3-methylcholanthrene	ug/L			<8	<8				
3-nitroaniline	ug/L			<8	<8				
4,4`-ddd	ug/L			<.05	<.05				
4,4`-dde	ug/L			<.05	<.05				
4,4`-ddt	ug/L			<.05	<.05				
4,6-dinitro-2-methylphenol	ug/L			<8	<8				
4-aminobiphenyl	ug/L			<8	<8				
4-bromophenyl phenyl ether	ug/L			<8	<8				
4-chloro-3-methylphenol	ug/L			<8	<8				
4-chloroaniline	ug/L			<8	<8				
4-chlorophenyl phenyl ether	ug/L			<8	<8				
4-methyl-2-pentanone	ug/L	<.22	<.22	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
4-nitroaniline	ug/L			<8	<8				
4-nitrophenol	ug/L			<8	<8				
5-nitro-o-toluidine	ug/L			<8	<8				
7,12-dimethylbenz [a] anthracene	ug/L			<8	<8				
Acenaphthene	ug/L			<8	<8				
Acenaphthylene	ug/L			<8	<8				
Acetone	ug/L	<1.79	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L			<10	<10				
Acetophenone	ug/L			<8	<8				
Acrolein	ug/L			<10	<10				
Acrylonitrile	ug/L	<.53	<.53	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin	ug/L			<.05	<.05				
Allyl chloride	ug/L			<1	<1				
Alpha-bhc	ug/L			<.05	<.05				
Anthracene	ug/L			<8	<8				

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

Table 11

Analytical Data Summary for MW-24

Constituents	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022
(3 4)-methylphenol						<8			
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00	1.10	<1.00	1.20	<1.00	1.70
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene						<1			
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene						<8			
1,2,4-trichlorobenzene						<1			
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<5.00	<5.00	<1.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene						<8			
1,3,5-trinitrobenzene						<8			
1,3-dichlorobenzene						<1			
1,3-dichloropropane						<1			
1,3-dinitrobenzene						<8			
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone						<8			
1,4-phenylenediamine						<8			
1-naphthylamine						<8			
2,2-dichloropropane						<1			
2,3,4,6-tetrachlorophenol						<8			
2,4,5-t						<.5			
2,4,5-tp (silvex)						<.5			
2,4,5-trichlorophenol						<8			
2,4,6-trichlorophenol						<8			
2,4-d						<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	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.00	<10.00
2-chloronaphthalene						<8			
2-chlorophenol						<8			
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene						<8			
2-methylphenol (o-cresol)						<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	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
4-nitroaniline						<8			
4-nitrophenol						<8			
5-nitro-o-toluidine						<8			
7,12-dimethylbenz [a] anthracene						<8			
Acenaphthene						<8			
Acenaphthylene						<8			
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile						<10			
Acetophenone						<8			
Acrolein						<10			
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin						<.05			
Allyl chloride						<1			
Alpha-bhc						<.05			
Anthracene						<8			

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

Table 11

Analytical Data Summary for MW-24

Constituents	4/3/2023	4/22/2024
(3 4)-methylphenol		
1,1,1,2-tetrachloroethane	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00
1,1-dichloropropene		
1,2,3-trichloropropane	<1.00	<1.00
1,2,4,5-tetrachlorobenzene		
1,2,4-trichlorobenzene		
1,2-dibromo-3-chloropropane	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00
1,2-dinitrobenzene		
1,3,5-trinitrobenzene		
1,3-dichlorobenzene		
1,3-dichloropropane		
1,3-dinitrobenzene		
1,4-dichlorobenzene	<1.0	<1.0
1,4-naphthoquinone		
1,4-phenylenediamine		
1-naphthylamine		
2,2-dichloropropane		
2,3,4,6-tetrachlorophenol		
2,4,5-t		
2,4,5-tp (silvex)		
2,4,5-trichlorophenol		
2,4,6-trichlorophenol		
2,4-d		
2,4-dichlorophenol		
2,4-dimethylphenol		
2,4-dinitrophenol		
2,4-dinitrotoluene		
2,6-dichlorophenol		
2,6-dinitrotoluene		
2-acetylaminofluorene		
2-butanone	<10.00	<10.00
2-chloronaphthalene		
2-chlorophenol		
2-hexanone	<5.0	<5.0
2-methylnaphthalene		
2-methylphenol (o-cresol)		
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	<5.00	<5.00
4-nitroaniline		
4-nitrophenol		
5-nitro-o-toluidine		
7,12-dimethylbenz [a] anthracene		
Acenaphthene		
Acenaphthylene		
Acetone	<10.00	<10.00
Acetonitrile		
Acetophenone		
Acrolein		
Acrylonitrile	<5.00	<5.00
Aldrin		
Allyl chloride		
Alpha-bhc		
Anthracene		

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

Table 11

Analytical Data Summary for MW-24

Constituents	Units	10/29/2014	4/28/2015	10/21/2015	4/11/2016	10/11/2016	4/12/2017	10/26/2017	4/11/2018
Antimony, total	ug/L	<.541	<.161	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arochlor 1016	ug/L			<.1	<.1				
Arochlor 1221	ug/L			<.2	<.2				
Arochlor 1232	ug/L			<.2	<.2				
Arochlor 1242	ug/L			<.2	<.2				
Arochlor 1248	ug/L			<.2	<.2				
Arochlor 1254	ug/L			<.1	<.1				
Arochlor 1260	ug/L			<.1	<.1				
Arsenic, total	ug/L	13.5	10.7	12.4	<4.0	4.5	<4.0	18.6	6.2
Azobenzene	ug/L			<8	<8				
Barium, total	ug/L	532	559	517	505	490	434	519	398
Benzene	ug/L	.718	1.080	1.600	<1.000	1.400	<1.000	<1.000	1.200
Benzo(a)anthracene	ug/L			<8	<8				
Benzo(a)pyrene	ug/L			<8	<8				
Benzo(b)fluoranthene	ug/L			<8	<8				
Benzo(g,h,i)perylene	ug/L			<8	<8				
Benzo(k)fluoranthene	ug/L			<8	<8				
Benzyl alcohol	ug/L			<8	<8				
Beryllium, total	ug/L	<.039	<.039	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc	ug/L			<.05	<.05				
Bis (2-chloroethoxy) methane	ug/L			<8	<8				
Bis(2-chloroethyl) ether	ug/L			<8	<8				
Bis(2-ethylhexyl) phthalate	ug/L			<8	<8				
Bis[2-chloroisopropyl]ether	ug/L			<8	<8				
Bromochloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate	ug/L			<8	<8				
Cadmium, total	ug/L	<.112	<.112	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	ug/L	2.24	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane	ug/L			<.1	<.1				
Chlorobenzene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate	ug/L			<8	<8				
Chloroethane	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	ug/L	<.28	<.28	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene	ug/L			<1	<1				
Chromium, total	ug/L	<1.24	<1.24	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene	ug/L			<8	<8				
Cis-1,2-dichloroethylene	ug/L	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	ug/L	2.71	3.47	4.20	4.20	2.80	3.10	2.40	1.80
Copper, total	ug/L	<10.000	<.485	<4.000	<4.000	<4.000	<4.000	4.700	<4.000
Cyanide, total	mg/L			<.005	<.005				
Delta-bhc	ug/L			<.05	<.05				
Diallate	ug/L			<8	<8				
Dibenzo(a,h)anthracene	ug/L			<8	<8				
Dibenzofuran	ug/L			<8	<8				
Dibromochloromethane	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane	ug/L			<1	<1				
Dieldrin	ug/L			<.05	<.05				
Diethyl phthalate	ug/L			<8	<8				
Dimethoate	ug/L			<.4	<.4				
Dimethylphthalate	ug/L			<8	<8				
Di-n-butyl phthalate	ug/L			<8	<8				
Di-n-octyl phthalate	ug/L			<8	<8				
Dinoseb	ug/L			<.5	<.5				
Diphenylamine	ug/L			<8	<8				
Disulfoton	ug/L			<.4	<.4				
Endosulfan i	ug/L			<.05	<.05				
Endosulfan ii	ug/L			<.05	<.05				
Endosulfan sulfate	ug/L			<.05	<.05				
Endrin	ug/L			<.05	<.05				
Endrin aldehyde	ug/L			<.05	<.05				
Ethyl methacrylate	ug/L			<10	<10				
Ethyl methanesulfonate	ug/L			<8	<8				
Ethylbenzene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur	ug/L			<.4	<.4				
Fluoranthene	ug/L			<8	<8				
Fluorene	ug/L			<8	<8				
Gamma-bhc [lindane]	ug/L			<.05	<.05				
Heptachlor	ug/L			<.05	<.05				
Heptachlor epoxide	ug/L			<.05	<.05				
Hexachlorobenzene	ug/L			<.05	<.05				

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

Table 11

Analytical Data Summary for MW-24

Constituents	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arochlor 1016						<.1			
Arochlor 1221						<.2			
Arochlor 1232						<.2			
Arochlor 1242						<.2			
Arochlor 1248						<.2			
Arochlor 1254						<.1			
Arochlor 1260						<.1			
Arsenic, total	<4.0	<4.0	<4.0	<4.0	13.4	<4.0	12.1	<4.0	16.0
Azobenzene						<8			
Barium, total	371	371	446	531	491	337	466	350	529
Benzene	<1.000	<1.000	<1.000	<1.000	1.600	<1.000	1.400	<1.000	2.000
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	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc						<.05			
Bis (2-chloroethoxy) methane						<8			
Bis(2-chloroethyl) ether						<8			
Bis(2-ethylhexyl) phthalate						12	<6	<6	<6
Bis[2-chloroisopropyl]ether						<8			
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate						<8			
Cadmium, total	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane						<.1			
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate						<8			
Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.10
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene						<1			
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene						<8			
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	1.00	2.20	1.20	2.50	1.40	1.80	1.50	1.50	.80
Copper, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Cyanide, total						<.005			
Delta-bhc						<.05			
Diallate						<8			
Dibenzo(a,h)anthracene						<8			
Dibenzofuran						<8			
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur						<.4			
Fluoranthene						<8			
Fluorene						<8			
Gamma-bhc [lindane]						<.05			
Heptachlor						<.05			
Heptachlor epoxide						<.05			
Hexachlorobenzene						<.05			

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

Table 11

Analytical Data Summary for MW-24

Constituents	4/3/2023	4/22/2024
Antimony, total	<2.000	<2.000
Arochlor 1016		
Arochlor 1221		
Arochlor 1232		
Arochlor 1242		
Arochlor 1248		
Arochlor 1254		
Arochlor 1260		
Arsenic, total	<4.0	10.8
Azobenzene		
Barium, total	389	490
Benzene	<1.000	<1.000
Benzo(a)anthracene		
Benzo(a)pyrene		
Benzo(b)fluoranthene		
Benzo(g,h,i)perylene		
Benzo(k)fluoranthene		
Benzyl alcohol		
Beryllium, total	<4.000	<4.000
Beta-bhc		
Bis (2-chloroethoxy) methane		
Bis(2-chloroethyl) ether		
Bis(2-ethylhexyl) phthalate		
Bis[2-chloroisopropyl]ether		
Bromochloromethane	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00
Bromoform	<1.00	<1.00
Bromomethane	<1.00	<1.00
Butyl benzyl phthalate		
Cadmium, total	<.800	<.800
Carbon disulfide	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00
Chlordane		
Chlorobenzene	<1.00	<1.00
Chlorobenzilate		
Chloroethane	<1.00	<1.00
Chloroform	<1.00	<1.00
Chloromethane	<1.00	<1.00
Chloroprene		
Chromium, total	<8.00	<8.00
Chrysene		
Cis-1,2-dichloroethylene	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00
Cobalt, total	.80	2.10
Copper, total	<4.000	<4.000
Cyanide, total		
Delta-bhc		
Diallate		
Dibenzo(a,h)anthracene		
Dibenzofuran		
Dibromochloromethane	<1.0	<1.0
Dibromomethane	<1.00	<1.00
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	<1.00	<1.00
Famphur		
Fluoranthene		
Fluorene		
Gamma-bhc [lindane]		
Heptachlor		
Heptachlor epoxide		
Hexachlorobenzene		

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

Table 11

Analytical Data Summary for MW-24

Constituents	Units	10/29/2014	4/28/2015	10/21/2015	4/11/2016	10/11/2016	4/12/2017	10/26/2017	4/11/2018
Hexachlorobutadiene	ug/L			<8	<8				
Hexachlorocyclopentadiene	ug/L			<8	<8				
Hexachloroethane	ug/L			<8	<8				
Hexachloropropene	ug/L			<8	<8				
Indeno(1,2,3-cd)pyrene	ug/L			<8	<8				
Iodomethane	ug/L	<.8	<.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isobutanol	mg/L			<1	<1				
Isodrin	ug/L			<8	<8				
Isophorone	ug/L			<8	<8				
Isosafrole	ug/L			<8	<8				
Kepone	ug/L			<8	<8				
Lead, total	ug/L	<.5000	<.0967	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total	ug/L			<.5	<.5				
Methacrylonitrile	ug/L			<1	<1				
Methapyrilene	ug/L			<8	<8				
Methoxychlor	ug/L			<.05	<.05				
Methyl methacrylate	ug/L			<1	<1				
Methyl methanesulfonate	ug/L			<8	<8				
Methyl parathion	ug/L			<.4	<.4				
Methylene chloride	ug/L	<.17	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene	ug/L			<8	<8				
Nickel, total	ug/L	25.3	33.6	32.0	26.1	27.9	23.1	31.6	25.9
Nitrobenzene	ug/L			<8	<8				
N-nitrosodiethylamine	ug/L			<8	<8				
N-nitrosodimethylamine	ug/L			<8	<8				
N-nitrosodi-n-butylamine	ug/L			<8	<8				
N-nitroso-di-n-propylamine	ug/L			<8	<8				
N-nitrosodiphenylamine	ug/L			<8	<8				
N-nitrosomethylethylamine	ug/L			<8	<8				
N-nitrosopiperidine	ug/L			<8	<8				
N-nitrosopyrrolidine	ug/L			<8	<8				
O,o,o-triethyl phosphorothioate	ug/L			<.4	<.4				
O-toluidine	ug/L			<8	<8				
P-(dimethylamino)azobenzene	ug/L			<8	<8				
Parathion	ug/L			<.4	<.4				
Pentachlorobenzene	ug/L			<8	<8				
Pentachloronitrobenzene (pcnb)	ug/L			<8	<8				
Pentachlorophenol	ug/L			<8	<8				
Phenacetin	ug/L			<8	<8				
Phenanthrene	ug/L			<8	<8				
Phenol	ug/L			<8	<8				
Phorate	ug/L			<.4	<.4				
Pronamide	ug/L			<8	<8				
Propionitrile	ug/L			<10	<40				
Pyrene	ug/L			<8	<8				
Safrole	ug/L			<8	<8				
Selenium, total	ug/L	<3.34	<3.34	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	ug/L	<.042	<.042	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total	mg/L			<.10	.12	<.10	<.10	<.10	<.10
Tetrachloroethylene	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	ug/L	<.0325	<.0325	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Thionazin	ug/L			<.4	<.4				
Tin, total	ug/L			<20	<20				
Toluene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids	mg/L	62.0	47.3						
Toxaphene	ug/L			<.2	<.2				
Trans-1,2-dichloroethylene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field	NTU	14.2200	.2679						
Turbidity, lab	NTU	325	244						
Vanadium, total	ug/L	<1.000	<.449	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	ug/L	<.74	<.74	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	ug/L	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	ug/L	<.13	<.13	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	ug/L	118.0	<20.0	<8.0	<8.0	<20.0	<8.0	8.9	<20.0

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

Table 11

Analytical Data Summary for MW-24

Constituents	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022
Hexachlorobutadiene						<8			
Hexachlorocyclopentadiene						<8			
Hexachloroethane						<8			
Hexachloropropene						<8			
Indeno(1,2,3-cd)pyrene						<8			
Iodomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
Isobutanol						<1			
Isodrin						<8			
Isophorone						<8			
Isosafrole						<8			
Kepone						<8			
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total						<.5			
Methacrylonitrile						<1			
Methapyrilene						<8			
Methoxychlor						<.05			
Methyl methacrylate						<1			
Methyl methanesulfonate						<8			
Methyl parathion						<.4			
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene						<8			
Nickel, total	18.3	18.8	29.0	32.5	35.0	21.1	35.5	24.5	40.0
Nitrobenzene						<8			
N-nitrosodiethylamine						<8			
N-nitrosodimethylamine						<8			
N-nitrosodi-n-butylamine						<8			
N-nitroso-di-n-propylamine						<8			
N-nitrosodiphenylamine						<8			
N-nitrosomethylethylamine						<8			
N-nitrosopiperidine						<8			
N-nitrosopyrrolidine						<8			
O,o,o-triethyl phosphorothioate						<.4			
O-toluidine						<8			
P-(dimethylamino)azobenzene						<8			
Parathion						<.4			
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	<4.00	<4.00	<4.00	<4.00	4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total	<.10					<.10			
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<4.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Thionazin						<.4			
Tin, total						<20			
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids									
Toxaphene						<.2			
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	1.4	<1.0	2.2
Xylenes, total	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	<8.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

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

Table 11

Analytical Data Summary for MW-24

Constituents	4/3/2023	4/22/2024
Hexachlorobutadiene		
Hexachlorocyclopentadiene		
Hexachloroethane		
Hexachloropropene		
Indeno(1,2,3-cd)pyrene		
Iodomethane	<1.0	<1.0
Isobutanol		
Isodrin		
Isophorone		
Isosafrole		
Kepone		
Lead, total	<4.0000	<4.0000
Mercury, total		
Methacrylonitrile		
Methapyrilene		
Methoxychlor		
Methyl methacrylate		
Methyl methanesulfonate		
Methyl parathion		
Methylene chloride	<5.00	<5.00
Naphthalene		
Nickel, total	27.6	38.0
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		
P-(dimethylamino)azobenzene		
Parathion		
Pentachlorobenzene		
Pentachloronitrobenzene (pcnb)		
Pentachlorophenol		
Phenacetin		
Phenanthrene		
Phenol		
Phorate		
Pronamide		
Propionitrile		
Pyrene		
Safrole		
Selenium, total	<4.00	<4.00
Silver, total	<4.000	<4.000
Styrene	<1.0	<1.0
Sulfide, total		
Tetrachloroethylene	<1.00	<1.00
Thallium, total	<2.0000	<2.0000
Thionazin		
Tin, total		
Toluene	<1.00	<1.00
Total suspended solids		
Toxaphene		
Trans-1,2-dichloroethylene	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00
Trichloroethylene	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00
Turbidity, field		
Turbidity, lab		
Vanadium, total	<20.000	<20.000
Vinyl acetate	<5.00	<5.00
Vinyl chloride	<1.0	<1.0
Xylenes, total	<2.00	<2.00
Zinc, total	<20.0	<20.0

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

Table 12

Analytical Data Summary for MW-25

Constituents	Units	10/28/2014	4/28/2015	10/20/2015	4/11/2016	10/12/2016	4/12/2017	10/26/2017	4/11/2018
(3 4)-methylphenol	ug/L						<8		<8
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene	ug/L						<1		<1
1,2,3-trichloropropane	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene	ug/L						<8		<8
1,2,4-trichlorobenzene	ug/L						<1		<1
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	<.87	<.87	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene	ug/L						<8		<8
1,3,5-trinitrobenzene	ug/L						<8		<8
1,3-dichlorobenzene	ug/L						<1		<1
1,3-dichloropropane	ug/L						<1		<1
1,3-dinitrobenzene	ug/L						<8		<8
1,4-dichlorobenzene	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone	ug/L						<8		<8
1,4-phenylenediamine	ug/L						<8		<8
1-naphthylamine	ug/L						<8		<8
2,2-dichloropropane	ug/L						<1		<1
2,3,4,6-tetrachlorophenol	ug/L						<8		<8
2,4,5-t	ug/L						<.5		<.5
2,4,5-tp (silvex)	ug/L						<.5		<.5
2,4,5-trichlorophenol	ug/L						<8		<8
2,4,6-trichlorophenol	ug/L						<8		<8
2,4-d	ug/L						<2		<2
2,4-dichlorophenol	ug/L						<8		<8
2,4-dimethylphenol	ug/L						<8		<8
2,4-dinitrophenol	ug/L						<8		<8
2,4-dinitrotoluene	ug/L						<8		<8
2,6-dichlorophenol	ug/L						<8		<8
2,6-dinitrotoluene	ug/L						<8		<8
2-acetylaminofluorene	ug/L						<8		<8
2-butanone	ug/L	<.47	<.47	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
2-chloronaphthalene	ug/L						<8		<8
2-chlorophenol	ug/L						<8		<8
2-hexanone	ug/L	<.2	<.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene	ug/L						<8		<8
2-methylphenol (o-cresol)	ug/L						<8		<8
2-naphthylamine	ug/L						<8		<8
2-nitroaniline	ug/L						<8		<8
2-nitrophenol	ug/L						<8		<8
3,3´-dichlorobenzidine	ug/L						<8		<8
3,3'-dimethylbenzidine	ug/L						<8		<8
3-methylcholanthrene	ug/L						<8		<8
3-nitroaniline	ug/L						<8		<8
4,4`-ddd	ug/L						<.05		<.05
4,4`-dde	ug/L						<.05		<.05
4,4`-ddt	ug/L						<.05		<.05
4,6-dinitro-2-methylphenol	ug/L						<8		<8
4-aminobiphenyl	ug/L						<8		<8
4-bromophenyl phenyl ether	ug/L						<8		<8
4-chloro-3-methylphenol	ug/L						<8		<8
4-chloroaniline	ug/L						<8		<8
4-chlorophenyl phenyl ether	ug/L						<8		<8
4-methyl-2-pentanone	ug/L	<.22	<.22	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
4-nitroaniline	ug/L						<8		<8
4-nitrophenol	ug/L						<8		<8
5-nitro-o-toluidine	ug/L						<8		<8
7,12-dimethylbenz [a] anthracene	ug/L						<8		<8
Acenaphthene	ug/L						<8		<8
Acenaphthylene	ug/L						<8		<8
Acetone	ug/L	<1.79	<1.79	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L						<10		<10
Acetophenone	ug/L						<8		<8
Acrolein	ug/L						<10		<10
Acrylonitrile	ug/L	<.53	<.53	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin	ug/L						<.05		<.05
Allyl chloride	ug/L						<1		<1
Alpha-bhc	ug/L						<.05		<.05
Anthracene	ug/L						<8		<8

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

Table 12

Analytical Data Summary for MW-25

Constituents	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022
(3 4)-methylphenol									
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene									
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene									
1,2,4-trichlorobenzene									
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene									
1,3,5-trinitrobenzene									
1,3-dichlorobenzene									
1,3-dichloropropane									
1,3-dinitrobenzene									
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone									
1,4-phenylenediamine									
1-naphthylamine									
2,2-dichloropropane									
2,3,4,6-tetrachlorophenol									
2,4,5-t									
2,4,5-tp (silvex)									
2,4,5-trichlorophenol									
2,4,6-trichlorophenol									
2,4-d									
2,4-dichlorophenol									
2,4-dimethylphenol									
2,4-dinitrophenol									
2,4-dinitrotoluene									
2,6-dichlorophenol									
2,6-dinitrotoluene									
2-acetylaminofluorene									
2-butanone	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.00	<10.00
2-chloronaphthalene									
2-chlorophenol									
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene									
2-methylphenol (o-cresol)									
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	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
4-nitroaniline									
4-nitrophenol									
5-nitro-o-toluidine									
7,12-dimethylbenz [a] anthracene									
Acenaphthene									
Acenaphthylene									
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin									
Allyl chloride									
Alpha-bhc									
Anthracene									

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

Table 12

Analytical Data Summary for MW-25

Constituents	4/3/2023	10/16/2023	4/22/2024	10/7/2024
(3 4)-methylphenol	<8			
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene	<1			
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene	<8			
1,2,4-trichlorobenzene	<1			
1,2-dibromo-3-chloropropane	<1.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene	<8			
1,3,5-trinitrobenzene	<8			
1,3-dichlorobenzene	<1			
1,3-dichloropropane	<1			
1,3-dinitrobenzene	<8			
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone	<8			
1,4-phenylenediamine	<8			
1-naphthylamine	<8			
2,2-dichloropropane	<1			
2,3,4,6-tetrachlorophenol	<8			
2,4,5-t	<.5			
2,4,5-tp (silvex)	<.5			
2,4,5-trichlorophenol	<8			
2,4,6-trichlorophenol	<8			
2,4-d	<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	<5.00	<10.00	<10.00	<10.00
2-chloronaphthalene	<8			
2-chlorophenol	<8			
2-hexanone	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene	<8			
2-methylphenol (o-cresol)	<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	<5.00	<5.00	<5.00	<5.00
4-nitroaniline	<8			
4-nitrophenol	<8			
5-nitro-o-toluidine	<8			
7,12-dimethylbenz [a] anthracene	<8			
Acenaphthene	<8			
Acenaphthylene	<8			
Acetone	<10.00	<10.00	<10.00	<10.00
Acetonitrile	<10			
Acetophenone	<8			
Acrolein	<10			
Acrylonitrile	<5.00	<5.00	<5.00	<5.00
Aldrin	<.05			
Allyl chloride	<1			
Alpha-bhc	<.05			
Anthracene	<8			

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

Table 12

Analytical Data Summary for MW-25

Constituents	Units	10/28/2014	4/28/2015	10/20/2015	4/11/2016	10/12/2016	4/12/2017	10/26/2017	4/11/2018
Antimony, total	ug/L	<.541	<.161	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arochlor 1016	ug/L						<.1		<.1
Arochlor 1221	ug/L						<.2		<.2
Arochlor 1232	ug/L						<.2		<.2
Arochlor 1242	ug/L						<.2		<.2
Arochlor 1248	ug/L						<.2		<.2
Arochlor 1254	ug/L						<.1		<.1
Arochlor 1260	ug/L						<.1		<.1
Arsenic, total	ug/L	<.945	<.945	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Azobenzene	ug/L						<8		<8
Barium, total	ug/L	135.0	100.0	90.4	108.0	101.0	97.0	106.0	101.0
Benzene	ug/L	<.11	<.11	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Benzo(a)anthracene	ug/L						<8		<8
Benzo(a)pyrene	ug/L						<8		<8
Benzo(b)fluoranthene	ug/L						<8		<8
Benzo(g,h,i)perylene	ug/L						<8		<8
Benzo(k)fluoranthene	ug/L						<8		<8
Benzyl alcohol	ug/L						<8		<8
Beryllium, total	ug/L	<.039	<.039	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc	ug/L						<.05		<.05
Bis (2-chloroethoxy) methane	ug/L						<8		<8
Bis(2-chloroethyl) ether	ug/L						<8		<8
Bis(2-ethylhexyl) phthalate	ug/L						18	<6	<6
Bis[2-chloroisopropyl]ether	ug/L						<8		<8
Bromochloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate	ug/L						<8		<8
Cadmium, total	ug/L	<.112	<.112	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	ug/L	1.70	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane	ug/L						<.1		<.1
Chloride	mg/L								
Chlorobenzene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate	ug/L						<8		<8
Chloroethane	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	ug/L	<.28	<.28	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene	ug/L						<1		<1
Chromium, total	ug/L	<1.24	<1.24	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene	ug/L						<8		<8
Cis-1,2-dichloroethylene	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	ug/L	1.28	1.09	1.50	3.40	4.30	.90	2.60	.80
COD, total	mg/L								
Copper, total	ug/L	8.59	<10.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Cyanide, total	mg/L						<.005		<.005
Delta-bhc	ug/L						<.05		<.05
Diallate	ug/L						<8		<8
Dibenzo(a,h)anthracene	ug/L						<8		<8
Dibenzofuran	ug/L						<8		<8
Dibromochloromethane	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane	ug/L						<1		<1
Dieldrin	ug/L						<.05		<.05
Diethyl phthalate	ug/L						<8		<8
Dimethoate	ug/L						<.4		<.4
Dimethylphthalate	ug/L						<8		<8
Di-n-butyl phthalate	ug/L						<8		<8
Di-n-octyl phthalate	ug/L						<8		<8
Dinoseb	ug/L						<.5		<.5
Diphenylamine	ug/L						<8		<8
Disulfoton	ug/L						<.4		<.4
Endosulfan i	ug/L						<.05		<.05
Endosulfan ii	ug/L						<.05		<.05
Endosulfan sulfate	ug/L						<.05		<.05
Endrin	ug/L						<.05		<.05
Endrin aldehyde	ug/L						<.05		<.05
Ethyl methacrylate	ug/L						<10		<10
Ethyl methanesulfonate	ug/L						<8		<8
Ethylbenzene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur	ug/L						<.4		<.4
Fluoranthene	ug/L						<8		<8
Fluorene	ug/L						<8		<8
Gamma-bhc [lindane]	ug/L						<.05		<.05
Heptachlor	ug/L						<.05		<.05

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

Table 12

Analytical Data Summary for MW-25

Constituents	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arochlor 1016									
Arochlor 1221									
Arochlor 1232									
Arochlor 1242									
Arochlor 1248									
Arochlor 1254									
Arochlor 1260									
Arsenic, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Azobenzene									
Barium, total	101.0	96.1	111.0	92.7	99.4	93.5	95.7	96.5	106.0
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Benzo(a)anthracene									
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(g,h,i)perylene									
Benzo(k)fluoranthene									
Benzyl alcohol									
Beryllium, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc									
Bis (2-chloroethoxy) methane									
Bis(2-chloroethyl) ether									
Bis(2-ethylhexyl) phthalate	<6	<6	<6	<6	<6				
Bis[2-chloroisopropyl]ether									
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate									
Cadmium, total	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane									
Chloride									
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate									
Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene									
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene									
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	1.90	1.50	2.00	.80	1.80	2.10	1.30	.70	4.70
COD, total									
Copper, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Cyanide, total									
Delta-bhc									
Diallate									
Dibenzo(a,h)anthracene									
Dibenzofuran									
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur									
Fluoranthene									
Fluorene									
Gamma-bhc [lindane]									
Heptachlor									

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

Table 12

Analytical Data Summary for MW-25

Constituents	4/3/2023	10/16/2023	4/22/2024	10/7/2024
Antimony, total	<2.000	<2.000	<2.000	<2.000
Arochlor 1016	<.1			
Arochlor 1221	<.2			
Arochlor 1232	<.2			
Arochlor 1242	<.2			
Arochlor 1248	<.2			
Arochlor 1254	<.1			
Arochlor 1260	<.1			
Arsenic, total	<4.000	<4.000	5.700	<4.000
Azobenzene	<8			
Barium, total	102.0	103.0	48.3	35.6
Benzene	<1.00	<1.00	<1.00	<1.00
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	<4.000	<4.000	<4.000	<4.000
Beta-bhc	<.05			
Bis (2-chloroethoxy) methane	<8			
Bis(2-chloroethyl) ether	<8			
Bis(2-ethylhexyl) phthalate	15	<6		
Bis[2-chloroisopropyl]ether	<8			
Bromochloromethane	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate	<8			
Cadmium, total	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00
Chlordane	<.1			
Chloride		21.3		
Chlorobenzene	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate	<8			
Chloroethane	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00
Chloroprene	<1			
Chromium, total	<8.00	<8.00	<8.00	<8.00
Chrysene	<8			
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00
Cobalt, total	.60	<.40	4.70	<.40
COD, total		<20		
Copper, total	<4.00	<4.00	<4.00	<4.00
Cyanide, total	<.005			
Delta-bhc	<.05			
Diallate	<8			
Dibenzo(a,h)anthracene	<8			
Dibenzofuran	<8			
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00
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	<1.00	<1.00	<1.00	<1.00
Famphur	<.4			
Fluoranthene	<8			
Fluorene	<8			
Gamma-bhc [lindane]	<.05			
Heptachlor	<.05			

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

Table 12

Analytical Data Summary for MW-25

Constituents	Units	10/28/2014	4/28/2015	10/20/2015	4/11/2016	10/12/2016	4/12/2017	10/26/2017	4/11/2018
Heptachlor epoxide	ug/L						<.05		<.05
Hexachlorobenzene	ug/L						<.05		<.05
Hexachlorobutadiene	ug/L						<8		<8
Hexachlorocyclopentadiene	ug/L						<8		<8
Hexachloroethane	ug/L						<8		<8
Hexachloropropene	ug/L						<8		<8
Indeno(1,2,3-cd)pyrene	ug/L						<8		<8
Iodomethane	ug/L	<.8	<.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isobutanol	mg/L						<1		<1
Isodrin	ug/L						<8		<8
Isophorone	ug/L						<8		<8
Isosafrole	ug/L						<8		<8
Kepone	ug/L						<8		<8
Lead, total	ug/L	<.5000	<.0967	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total	ug/L						<.5		<.5
Methacrylonitrile	ug/L						<1		<1
Methapyrilene	ug/L						<8		<8
Methoxychlor	ug/L						<.05		<.05
Methyl methacrylate	ug/L						<1		<1
Methyl methanesulfonate	ug/L						<8		<8
Methyl parathion	ug/L						<.4		<.4
Methylene chloride	ug/L	<.17	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene	ug/L						<8		<8
Nickel, total	ug/L	<10.0	<10.0	<4.0	<4.0	<4.0	<4.0	117.0	<4.0
Nitrobenzene	ug/L						<8		<8
Nitrogen, Ammonia	mg/L								
N-nitrosodiethylamine	ug/L						<8		<8
N-nitrosodimethylamine	ug/L						<8		<8
N-nitrosodi-n-butylamine	ug/L						<8		<8
N-nitroso-di-n-propylamine	ug/L						<8		<8
N-nitrosodiphenylamine	ug/L						<8		<8
N-nitrosomethylethylamine	ug/L						<8		<8
N-nitrosopiperidine	ug/L						<8		<8
N-nitrosopyrrolidine	ug/L						<8		<8
O,o,o-triethyl phosphorothioate	ug/L						<.4		<.4
O-toluidine	ug/L						<8		<8
P-(dimethylamino)azobenzene	ug/L						<8		<8
Parathion	ug/L						<.4		<.4
Pentachlorobenzene	ug/L						<8		<8
Pentachloronitrobenzene (pcnb)	ug/L						<8		<8
Pentachlorophenol	ug/L						<8		<8
Phenacetin	ug/L						<8		<8
Phenanthrene	ug/L						<8		<8
Phenol	ug/L						<8		<8
Phorate	ug/L						<.4		<.4
Pronamide	ug/L						<8		<8
Propionitrile	ug/L						<10		<10
Pyrene	ug/L						<8		<8
Safrole	ug/L						<8		<8
Selenium, total	ug/L	<3.34	<3.34	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	ug/L	<.042	<1.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total	mg/L						<.1		<.1
Tetrachloroethylene	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	ug/L	<1	<1	<4	<4	<4	<4	<4	<4
Thionazin	ug/L						<.4		<.4
Tin, total	ug/L						<20		<20
Toluene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids	mg/L	2.8	<5.0						
Toxaphene	ug/L						<.2		<.2
Trans-1,2-dichloroethylene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field	NTU	11.060	.884						
Turbidity, lab	NTU	2.1	<.7						
Vanadium, total	ug/L	<1.000	<.449	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	ug/L	<.74	<.74	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	ug/L	<.13	<.13	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	ug/L	18.90	<6.95	<8.00	<8.00	<20.00	<8.00	13.50	53.90

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

Table 12

Analytical Data Summary for MW-25

Constituents	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022
Heptachlor epoxide									
Hexachlorobenzene									
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno(1,2,3-cd)pyrene									
Iodomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isobutanol									
Isodrin									
Isophorone									
Isosafrole									
Kepone									
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total									
Methacrylonitrile									
Methapyrilene									
Methoxychlor									
Methyl methacrylate									
Methyl methanesulfonate									
Methyl parathion									
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene									
Nickel, total	4.2	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Nitrobenzene									
Nitrogen, Ammonia									
N-nitrosodiethylamine									
N-nitrosodimethylamine									
N-nitrosodi-n-butylamine									
N-nitroso-di-n-propylamine									
N-nitrosodiphenylamine									
N-nitrosomethylethylamine									
N-nitrosopiperidine									
N-nitrosopyrrolidine									
O,o,o-triethyl phosphorothioate									
O-toluidine									
P-(dimethylamino)azobenzene									
Parathion									
Pentachlorobenzene									
Pentachloronitrobenzene (pcnb)									
Pentachlorophenol									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Pronamide									
Propionitrile									
Pyrene									
Safrole									
Selenium, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total									
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<4	<2	<2	<2	<2	<2	<2	<2	<2
Thionazin									
Tin, total									
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids									
Toxaphene									
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	<8.00	<20.00	8.60	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 12

Analytical Data Summary for MW-25

Constituents	4/3/2023	10/16/2023	4/22/2024	10/7/2024
Heptachlor epoxide	<.05			
Hexachlorobenzene	<.05			
Hexachlorobutadiene	<8			
Hexachlorocyclopentadiene	<8			
Hexachloroethane	<8			
Hexachloropropene	<8			
Indeno(1,2,3-cd)pyrene	<8			
Iodomethane	<2.0	<1.0	<1.0	<1.0
Isobutanol	<1			
Isodrin	<8			
Isophorone	<8			
Isosafrole	<8			
Kepone	<8			
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total	<.5			
Methacrylonitrile	<1			
Methapyrilene	<8			
Methoxychlor	<.05			
Methyl methacrylate	<1			
Methyl methanesulfonate	<8			
Methyl parathion	<.4			
Methylene chloride	<5.00	<5.00	<5.00	<5.00
Naphthalene	<8			
Nickel, total	<4.0	<4.0	7.9	8.1
Nitrobenzene	<8			
Nitrogen, Ammonia		<.1		
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			
P-(dimethylamino)azobenzene	<8			
Parathion	<.4			
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	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0
Sulfide, total	<.1			
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00
Thallium, total	<2	<2	<2	<2
Thionazin	<.4			
Tin, total	<20			
Toluene	<1.00	<1.00	<1.00	<1.00
Total suspended solids				
Toxaphene	<.2			
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00
Turbidity, field				
Turbidity, lab				
Vanadium, total	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00
Zinc, total	<20.00	<20.00	<20.00	<20.00

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

Table 13

Analytical Data Summary for MW-26

Constituents	Units	10/28/2014	4/28/2015	10/20/2015	4/11/2016	10/11/2016	4/13/2017	10/26/2017	1/17/2018
(3 4)-methylphenol	ug/L							<8	
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	
1,1,1-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,2-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	
1,1-dichloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	
1,1-dichloroethylene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	
1,1-dichloropropene	ug/L							<1	
1,2,3-trichloropropane	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2,4,5-tetrachlorobenzene	ug/L							<8	
1,2,4-trichlorobenzene	ug/L							<1	
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-dibromoethane	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-dichlorobenzene	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-dichloroethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-dichloropropane	ug/L	<.87	<.87	<1.00	<1.00	<1.00	<1.00	<1.00	
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	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	
1,4-naphthoquinone	ug/L							<8	
1,4-phenylenediamine	ug/L							<8	
1-naphthylamine	ug/L							<8	
2,2-dichloropropane	ug/L							<1	
2,3,4,6-tetrachlorophenol	ug/L							<8	
2,4,5-t	ug/L							<.5	
2,4,5-tp (silvex)	ug/L							<.5	
2,4,5-trichlorophenol	ug/L							<8	
2,4,6-trichlorophenol	ug/L							<8	
2,4-d	ug/L							<2	
2,4-dichlorophenol	ug/L							<8	
2,4-dimethylphenol	ug/L							<8	
2,4-dinitrophenol	ug/L							<8	
2,4-dinitrotoluene	ug/L							<8	
2,6-dichlorophenol	ug/L							<8	
2,6-dinitrotoluene	ug/L							<8	
2-acetylaminofluorene	ug/L							<8	
2-butanone	ug/L	<.47	<.47	<5.00	<5.00	<5.00	<5.00	<5.00	
2-chloronaphthalene	ug/L							<8	
2-chlorophenol	ug/L							<8	
2-hexanone	ug/L	<.2	<.2	<5.0	<5.0	<5.0	<5.0	<5.0	
2-methylnaphthalene	ug/L							<8	
2-methylphenol (o-cresol)	ug/L							<8	
2-naphthylamine	ug/L							<8	
2-nitroaniline	ug/L							<8	
2-nitrophenol	ug/L							<8	
3,3´-dichlorobenzidine	ug/L							<8	
3,3'-dimethylbenzidine	ug/L							<8	
3-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	ug/L	<.22	<.22	<5.00	<5.00	<5.00	<5.00	<5.00	
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	<1.79	<1.79	<10.00	<10.00	<10.00	<10.00	<10.00	
Acetonitrile	ug/L							<10	
Acetophenone	ug/L							<8	
Acrolein	ug/L							<10	
Acrylonitrile	ug/L	<.53	<.53	<5.00	<5.00	<5.00	<5.00	<5.00	
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 13

Analytical Data Summary for MW-26

Constituents	4/11/2018	7/2/2018	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021
(3 4)-methylphenol	<8								
1,1,1,2-tetrachloroethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene	<1								
1,2,3-trichloropropane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene	<8								
1,2,4-trichlorobenzene	<1								
1,2-dibromo-3-chloropropane	<1.00		<1.00	<1.00	<1.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene	<8								
1,3,5-trinitrobenzene	<8								
1,3-dichlorobenzene	<1								
1,3-dichloropropane	<1								
1,3-dinitrobenzene	<8								
1,4-dichlorobenzene	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone	<8								
1,4-phenylenediamine	<8								
1-naphthylamine	<8								
2,2-dichloropropane	<1								
2,3,4,6-tetrachlorophenol	<8								
2,4,5-t	<.5								
2,4,5-tp (silvex)	<.5								
2,4,5-trichlorophenol	<8								
2,4,6-trichlorophenol	<8								
2,4-d	<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	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
2-chloronaphthalene	<8								
2-chlorophenol	<8								
2-hexanone	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene	<8								
2-methylphenol (o-cresol)	<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	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
4-nitroaniline	<8								
4-nitrophenol	<8								
5-nitro-o-toluidine	<8								
7,12-dimethylbenz [a] anthracene	<8								
Acenaphthene	<8								
Acenaphthylene	<8								
Acetone	<10.00		<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	<10								
Acetophenone	<8								
Acrolein	<10								
Acrylonitrile	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin	<.05								
Allyl chloride	<1								
Alpha-bhc	<.05								
Anthracene	<8								

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

Table 13

Analytical Data Summary for MW-26

Constituents	4/14/2022	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
(3 4)-methylphenol			<8			
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene			<1			
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene			<8			
1,2,4-trichlorobenzene			<1			
1,2-dibromo-3-chloropropane	<5.00	<5.00	<1.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene			<8			
1,3,5-trinitrobenzene			<8			
1,3-dichlorobenzene			<1			
1,3-dichloropropane			<1			
1,3-dinitrobenzene			<8			
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone			<8			
1,4-phenylenediamine			<8			
1-naphthylamine			<8			
2,2-dichloropropane			<1			
2,3,4,6-tetrachlorophenol			<8			
2,4,5-t			<.5			
2,4,5-tp (silvex)			<.5			
2,4,5-trichlorophenol			<8			
2,4,6-trichlorophenol			<8			
2,4-d			<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	<10.00	<10.00	<5.00	<10.00	<10.00	<10.00
2-chloronaphthalene			<8			
2-chlorophenol			<8			
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene			<8			
2-methylphenol (o-cresol)			<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	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
4-nitroaniline			<8			
4-nitrophenol			<8			
5-nitro-o-toluidine			<8			
7,12-dimethylbenz [a] anthracene			<8			
Acenaphthene			<8			
Acenaphthylene			<8			
Acetone	<10.00	<10.00	<10.00	27.10	<10.00	<10.00
Acetonitrile			<10			
Acetophenone			<8			
Acrolein			<10			
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin			<.05			
Allyl chloride			<1			
Alpha-bhc			<.05			
Anthracene			<8			

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

Table 13

Analytical Data Summary for MW-26

Constituents	Units	10/28/2014	4/28/2015	10/20/2015	4/11/2016	10/11/2016	4/13/2017	10/26/2017	1/17/2018
Antimony, total	ug/L	<.161	<.161	<2.000	<2.000	<2.000	<2.000	<2.000	
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	<1.000	<.945	<4.000	<4.000	<4.000	<4.000	<4.000	
Azobenzene	ug/L							<8	
Barium, total	ug/L	153.0	38.4	92.4	60.9	64.8	52.3	69.4	
Benzene	ug/L	<.11	<.11	<1.00	<1.00	<1.00	<1.00	<1.00	
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	<.039	<.039	<4.000	<4.000	<4.000	<4.000	<4.000	
Beta-bhc	ug/L							<.05	
Bis (2-chloroethoxy) methane	ug/L							<8	
Bis(2-chloroethyl) ether	ug/L							<8	
Bis(2-ethylhexyl) phthalate	ug/L							12	
Bis[2-chloroisopropyl]ether	ug/L							<8	
Bromochloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	
Bromodichloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	
Bromoform	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	
Bromomethane	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	
Butyl benzyl phthalate	ug/L							<8	
Cadmium, total	ug/L	<.112	<.112	<.800	<.800	<.800	<.800	<.800	
Carbon disulfide	ug/L	<1.00	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	
Carbon tetrachloride	ug/L	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	
Chlordane	ug/L							<.1	
Chloride	mg/L								
Chlorobenzene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	
Chlorobenzilate	ug/L							<8	
Chloroethane	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	
Chloroform	ug/L	<.28	<.28	<1.00	<1.00	<1.00	<1.00	<1.00	
Chloromethane	ug/L	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	
Chloroprene	ug/L							<1	
Chromium, total	ug/L	<1.24	<1.24	<8.00	<8.00	<8.00	<8.00	<8.00	
Chrysene	ug/L							<8	
Cis-1,2-dichloroethylene	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	
Cis-1,3-dichloropropene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	
Cobalt, total	ug/L	16.5	<.2	1.6	<.8	2.9	<.8	4.0	3.4
COD, total	mg/L								
Copper, total	ug/L	<10.0	<10.0	<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	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	
Dibromomethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	
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	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	
Famphur	ug/L							<.4	
Fluoranthene	ug/L							<8	
Fluorene	ug/L							<8	
Gamma-bhc [lindane]	ug/L							<.05	
Heptachlor	ug/L							<.05	

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

Table 13

Analytical Data Summary for MW-26

Constituents	4/11/2018	7/2/2018	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021
Antimony, total	<2.000		<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arochlor 1016	<.1								
Arochlor 1221	<.2								
Arochlor 1232	<.2								
Arochlor 1242	<.2								
Arochlor 1248	<.2								
Arochlor 1254	<.1								
Arochlor 1260	<.1								
Arsenic, total	<4.000		<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Azobenzene	<8								
Barium, total	43.7		66.6	51.9	49.9	47.1	51.6	37.1	52.3
Benzene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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	<4.000		<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc	<.05								
Bis (2-chloroethoxy) methane	<8								
Bis(2-chloroethyl) ether	<8								
Bis(2-ethylhexyl) phthalate	<6	<6	<6	7	<6	<6	<6	<6	<6
Bis[2-chloroisopropyl]ether	<8								
Bromochloromethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate	<8								
Cadmium, total	<.800		<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane	<.1								
Chloride									
Chlorobenzene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate	<8								
Chloroethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene	<1								
Chromium, total	<8.00		<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene	<8								
Cis-1,2-dichloroethylene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	3.2		2.1	<.8	1.2	1.0	3.6	<.4	3.6
COD, total									
Copper, total	<4.0		4.7	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total	<.005								
Delta-bhc	<.05								
Diallate	<8								
Dibenzo(a,h)anthracene	<8								
Dibenzofuran	<8								
Dibromochloromethane	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur	<.4								
Fluoranthene	<8								
Fluorene	<8								
Gamma-bhc [lindane]	<.05								
Heptachlor	<.05								

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

Table 13

Analytical Data Summary for MW-26

Constituents	4/14/2022	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arochlor 1016			<.1			
Arochlor 1221			<.2			
Arochlor 1232			<.2			
Arochlor 1242			<.2			
Arochlor 1248			<.2			
Arochlor 1254			<.1			
Arochlor 1260			<.1			
Arsenic, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Azobenzene			<8			
Barium, total	32.3	41.1	27.5	46.5	26.1	41.0
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc			<.05			
Bis (2-chloroethoxy) methane			<8			
Bis(2-chloroethyl) ether			<8			
Bis(2-ethylhexyl) phthalate			18	<6		
Bis[2-chloroisopropyl]ether			<8			
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate			<8			
Cadmium, total	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane			<.1			
Chloride				19.9		
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate			<8			
Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene			<1			
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene			<8			
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	.6	.9	<.4	13.6	1.1	11.8
COD, total				<20		
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total			<.005			
Delta-bhc			<.05			
Diallate			<8			
Dibenzo(a,h)anthracene			<8			
Dibenzofuran			<8			
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur			<.4			
Fluoranthene			<8			
Fluorene			<8			
Gamma-bhc [lindane]			<.05			
Heptachlor			<.05			

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

Table 13

Analytical Data Summary for MW-26

Constituents	Units	10/28/2014	4/28/2015	10/20/2015	4/11/2016	10/11/2016	4/13/2017	10/26/2017	1/17/2018
Heptachlor epoxide	ug/L							<.05	
Hexachlorobenzene	ug/L							<.05	
Hexachlorobutadiene	ug/L							<8	
Hexachlorocyclopentadiene	ug/L							<8	
Hexachloroethane	ug/L							<8	
Hexachloropropene	ug/L							<8	
Indeno(1,2,3-cd)pyrene	ug/L							<8	
Iodomethane	ug/L	<.8	<.8	<1.0	<1.0	<1.0	<1.0	<1.0	
Isobutanol	mg/L							<1	
Isodrin	ug/L							<8	
Isophorone	ug/L							<8	
Isosafrole	ug/L							<8	
Kepone	ug/L							<8	
Lead, total	ug/L	<.5000	<.0967	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	
Mercury, total	ug/L							<.5	
Methacrylonitrile	ug/L							<1	
Methapyrilene	ug/L							<8	
Methoxychlor	ug/L							<.05	
Methyl methacrylate	ug/L							<1	
Methyl methanesulfonate	ug/L							<8	
Methyl parathion	ug/L							<.4	
Methylene chloride	ug/L	<.17	<.17	<5.00	<5.00	<5.00	<5.00	<5.00	
Naphthalene	ug/L							<8	
Nickel, total	ug/L	9.67	<10.00	10.50	4.50	8.20	4.70	11.20	
Nitrobenzene	ug/L							<8	
Nitrogen, Ammonia	mg/L								
N-nitrosodiethylamine	ug/L							<8	
N-nitrosodimethylamine	ug/L							<8	
N-nitrosodi-n-butylamine	ug/L							<8	
N-nitroso-di-n-propylamine	ug/L							<8	
N-nitrosodiphenylamine	ug/L							<8	
N-nitrosomethylethylamine	ug/L							<8	
N-nitrosopiperidine	ug/L							<8	
N-nitrosopyrrolidine	ug/L							<8	
O,o,o-triethyl phosphorothioate	ug/L							<.4	
O-toluidine	ug/L							<8	
P-(dimethylamino)azobenzene	ug/L							<8	
Parathion	ug/L							<.4	
Pentachlorobenzene	ug/L							<8	
Pentachloronitrobenzene (pcnb)	ug/L							<8	
Pentachlorophenol	ug/L							<8	
Phenacetin	ug/L							<8	
Phenanthrene	ug/L							<8	
Phenol	ug/L							<8	
Phorate	ug/L							<.4	
Pronamide	ug/L							<8	
Propionitrile	ug/L							<10	
Pyrene	ug/L							<8	
Safrole	ug/L							<8	
Selenium, total	ug/L	<3.34	<3.34	<4.00	<4.00	<4.00	<4.00	<4.00	
Silver, total	ug/L	<.042	<1.000	<4.000	<4.000	<4.000	<4.000	<4.000	
Styrene	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	
Sulfide, total	mg/L							<.1	
Tetrachloroethylene	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	
Thallium, total	ug/L	<1.0000	<.0325	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	
Thionazin	ug/L							<.4	
Tin, total	ug/L							<20	
Toluene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	
Total suspended solids	mg/L	7.75	<3.37						
Toxaphene	ug/L							<.2	
Trans-1,2-dichloroethylene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	
Trans-1,3-dichloropropene	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13	<5.00	<5.00	<5.00	<5.00	<5.00	
Trichloroethylene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	
Trichlorofluoromethane	ug/L	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<1.00	
Turbidity, field	NTU	.8812	.3177						
Turbidity, lab	NTU	18.6	<.7						
Vanadium, total	ug/L	<1.000	<.449	<20.000	<20.000	<20.000	<20.000	<20.000	
Vinyl acetate	ug/L	<.74	<.74	<5.00	<5.00	<5.00	<5.00	<5.00	
Vinyl chloride	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	
Xylenes, total	ug/L	<.13	<.13	<2.00	<2.00	<2.00	<2.00	<2.00	
Zinc, total	ug/L	38.70	<6.95	<8.00	<8.00	<20.00	<8.00	<8.00	

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

Table 13

Analytical Data Summary for MW-26

Constituents	4/11/2018	7/2/2018	10/16/2018	4/17/2019	10/15/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021
Heptachlor epoxide	<.05								
Hexachlorobenzene	<.05								
Hexachlorobutadiene	<8								
Hexachlorocyclopentadiene	<8								
Hexachloroethane	<8								
Hexachloropropene	<8								
Indeno(1,2,3-cd)pyrene	<8								
Iodomethane	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isobutanol	<1								
Isodrin	<8								
Isophorone	<8								
Isosafrole	<8								
Kepone	<8								
Lead, total	<4.0000		<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total	<.5								
Methacrylonitrile	<1								
Methapyrilene	<8								
Methoxychlor	<.05								
Methyl methacrylate	<1								
Methyl methanesulfonate	<8								
Methyl parathion	<.4								
Methylene chloride	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene	<8								
Nickel, total	11.10		4.10	<4.00	5.00	<4.00	10.10	<4.00	7.50
Nitrobenzene	<8								
Nitrogen, Ammonia									
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								
P-(dimethylamino)azobenzene	<8								
Parathion	<.4								
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	<4.00		<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000		<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total	<.1								
Tetrachloroethylene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<4.0000		<4.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Thionazin	<.4								
Tin, total	<20								
Toluene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids									
Toxaphene	<.2								
Trans-1,2-dichloroethylene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.000		<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00		<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	<20.00		22.10	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 13

Analytical Data Summary for MW-26

Constituents	4/14/2022	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
Heptachlor epoxide			<.05			
Hexachlorobenzene			<.05			
Hexachlorobutadiene			<8			
Hexachlorocyclopentadiene			<8			
Hexachloroethane			<8			
Hexachloropropene			<8			
Indeno(1,2,3-cd)pyrene			<8			
Iodomethane	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
Isobutanol			<1			
Isodrin			<8			
Isophorone			<8			
Isosafrole			<8			
Kepone			<8			
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total			<.5			
Methacrylonitrile			<1			
Methapyrilene			<8			
Methoxychlor			<.05			
Methyl methacrylate			<1			
Methyl methanesulfonate			<8			
Methyl parathion			<.4			
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene			<8			
Nickel, total	<4.00	7.30	<4.00	9.30	<4.00	8.70
Nitrobenzene			<8			
Nitrogen, Ammonia				<.1		
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			
P-(dimethylamino)azobenzene			<8			
Parathion			<.4			
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	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total			<.1			
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Thionazin			<.4			
Tin, total			<20			
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids						
Toxaphene			<.2			
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field						
Turbidity, lab						
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 14

Analytical Data Summary for MW-27

Constituents	Units	10/27/2014	4/27/2015	10/21/2015	4/11/2016	10/11/2016	4/12/2017	10/26/2017
(3 4)-methylphenol	ug/L			<8				
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	1.9	9.7	1.5	5.8	5.9	3.2	2.9
1,1-dichloroethylene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene	ug/L			<1				
1,2,3-trichloropropane	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene	ug/L			<8				
1,2,4-trichlorobenzene	ug/L			<1				
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	<.87	<.87	<1.00	<1.00	<1.00	<1.00	<1.00
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	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone	ug/L			<8				
1,4-phenylenediamine	ug/L			<8				
1-naphthylamine	ug/L			<8				
2,2-dichloropropane	ug/L			<1				
2,3,4,6-tetrachlorophenol	ug/L			<8				
2,4,5-t	ug/L			<.5				
2,4,5-tp (silvex)	ug/L			<.5				
2,4,5-trichlorophenol	ug/L			<8				
2,4,6-trichlorophenol	ug/L			<8				
2,4-d	ug/L			<2				
2,4-dichlorophenol	ug/L			<8				
2,4-dimethylphenol	ug/L			<8				
2,4-dinitrophenol	ug/L			<8				
2,4-dinitrotoluene	ug/L			<8				
2,6-dichlorophenol	ug/L			<8				
2,6-dinitrotoluene	ug/L			<8				
2-acetylaminofluorene	ug/L			<8				
2-butanone	ug/L	<.47	<.47	<5.00	<5.00	<5.00	<5.00	<5.00
2-chloronaphthalene	ug/L			<8				
2-chlorophenol	ug/L			<8				
2-hexanone	ug/L	<.2	<.2	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene	ug/L			<8				
2-methylphenol (o-cresol)	ug/L			<8				
2-naphthylamine	ug/L			<8				
2-nitroaniline	ug/L			<8				
2-nitrophenol	ug/L			<8				
3,3´-dichlorobenzidine	ug/L			<8				
3,3'-dimethylbenzidine	ug/L			<8				
3-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	ug/L	<.22	<.22	<5.00	<5.00	<5.00	<5.00	<5.00
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	<1.79	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L			<10				
Acetophenone	ug/L			<8				
Acrolein	ug/L			<10				
Acrylonitrile	ug/L	<.53	<.53	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin	ug/L			<.05				
Allyl chloride	ug/L			<1				
Alpha-bhc	ug/L		<.00189	<.05000				
Anthracene	ug/L			<8				

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

Table 14

Analytical Data Summary for MW-27

Constituents	Units	10/27/2014	4/27/2015	10/21/2015	4/11/2016	10/11/2016	4/12/2017	10/26/2017
Antimony, total	ug/L	<.541	<.541	<2.000	<2.000	<2.000	<2.000	<2.000
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	31.8	14.1	10.4	117.0	8.9	43.7	12.5
Azobenzene	ug/L			<8				
Barium, total	ug/L	773	569	526	952	598	791	708
Benzene	ug/L	1.33	2.92	<1.00	1.00	1.10	<1.00	1.50
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	<1.000	<.039	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc	ug/L			<.05				
Bis (2-chloroethoxy) methane	ug/L			<8				
Bis(2-chloroethyl) ether	ug/L			<8				
Bis(2-ethylhexyl) phthalate	ug/L		<.433	<8.000				
Bis[2-chloroisopropyl]ether	ug/L			<8				
Bromochloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate	ug/L			<8				
Cadmium, total	ug/L	<.5	<.5	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane	ug/L			<.1				
Chlorobenzene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate	ug/L			<8				
Chloroethane	ug/L	<.15	5.97	<1.00	4.50	4.90	2.90	2.50
Chloroform	ug/L	<.28	<.28	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene	ug/L			<1				
Chromium, total	ug/L	<1.24	<1.24	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene	ug/L			<8				
Cis-1,2-dichloroethylene	ug/L	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	ug/L	11.50	5.01	3.40	4.50	3.40	3.90	5.20
Copper, total	ug/L	<10.00	2.09	<4.00	<4.00	<4.00	<4.00	<4.00
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	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00
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	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00
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 14

Analytical Data Summary for MW-27

Constituents	Units	10/27/2014	4/27/2015	10/21/2015	4/11/2016	10/11/2016	4/12/2017	10/26/2017
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				
Iodomethane	ug/L	<.8	<.8	<1.0	<1.0	<1.0	<1.0	<1.0
Isobutanol	mg/L			<1				
Isodrin	ug/L			<8				
Isophorone	ug/L			<8				
Isosafrole	ug/L			<8				
Kepone	ug/L			<8				
Lead, total	ug/L	<.0967	<.5000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total	ug/L			<.5				
Methacrylonitrile	ug/L			<1				
Methapyrilene	ug/L			<8				
Methoxychlor	ug/L			<.05				
Methyl methacrylate	ug/L			<1				
Methyl methanesulfonate	ug/L			<8				
Methyl parathion	ug/L			<.4				
Methylene chloride	ug/L	<.17	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene	ug/L			<8				
Nickel, total	ug/L	14.50	8.01	11.10	11.40	9.00	9.60	14.20
Nitrobenzene	ug/L			<8				
N-nitrosodiethylamine	ug/L			<8				
N-nitrosodimethylamine	ug/L			<8				
N-nitrosodi-n-butylamine	ug/L			<8				
N-nitroso-di-n-propylamine	ug/L			<8				
N-nitrosodiphenylamine	ug/L			<8				
N-nitrosomethylethylamine	ug/L			<8				
N-nitrosopiperidine	ug/L			<8				
N-nitrosopyrrolidine	ug/L			<8				
O,o,o-triethyl phosphorothioate	ug/L			<.4				
O-toluidine	ug/L			<8				
P-(dimethylamino)azobenzene	ug/L			<8				
Parathion	ug/L			<.4				
Pentachlorobenzene	ug/L			<8				
Pentachloronitrobenzene (pcnb)	ug/L			<8				
Pentachlorophenol	ug/L			<8				
Phenacetin	ug/L			<8				
Phenanthrene	ug/L			<8				
Phenol	ug/L			<8				
Phorate	ug/L			<.4				
Pronamide	ug/L			<8				
Propionitrile	ug/L			<10				
Pyrene	ug/L			<8				
Safrole	ug/L			<8				
Selenium, total	ug/L	<3.34	<3.34	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	ug/L	<.042	<1.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total	mg/L		<.219	.760	.350	<.100	<.100	<.100
Tetrachloroethylene	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	ug/L	<1	<1	<4	<4	<4	<4	<4
Thionazin	ug/L			<.4				
Tin, total	ug/L		<1.8	<20.0	<20.0	<20.0		
Toluene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids	mg/L	65.40	9.75					
Toxaphene	ug/L			<.2				
Trans-1,2-dichloroethylene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field	NTU	8.643	5.700					
Turbidity, lab	NTU	308	60					
Vanadium, total	ug/L	<10	<1	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<.74	<.74	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	ug/L	<.10	1.82	<1.00	1.30	1.40	1.30	<1.00
Xylenes, total	ug/L	<.13	<.13	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	ug/L	<6.95	<6.95	<8.00	8.20	<20.00	<8.00	<8.00

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

Table 15

Analytical Data Summary for MW-28

Constituents	Units	10/24/2014	4/27/2015	10/21/2015	4/11/2016	10/11/2016	4/12/2017	10/26/2017
(3 4)-methylphenol	ug/L			<8				
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	1.38	1.29	<1.00	<1.00	1.80	<1.00	<1.00
1,1-dichloroethylene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene	ug/L			<1				
1,2,3-trichloropropane	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene	ug/L			<8				
1,2,4-trichlorobenzene	ug/L			<1				
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	<.87	<.87	<1.00	<1.00	<1.00	<1.00	<1.00
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	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone	ug/L			<8				
1,4-phenylenediamine	ug/L			<8				
1-naphthylamine	ug/L			<8				
2,2-dichloropropane	ug/L			<1				
2,3,4,6-tetrachlorophenol	ug/L			<8				
2,4,5-t	ug/L			<.5				
2,4,5-tp (silvex)	ug/L			<.5				
2,4,5-trichlorophenol	ug/L			<8				
2,4,6-trichlorophenol	ug/L			<8				
2,4-d	ug/L			<2				
2,4-dichlorophenol	ug/L			<8				
2,4-dimethylphenol	ug/L			<8				
2,4-dinitrophenol	ug/L			<8				
2,4-dinitrotoluene	ug/L			<8				
2,6-dichlorophenol	ug/L			<8				
2,6-dinitrotoluene	ug/L			<8				
2-acetylaminofluorene	ug/L			<8				
2-butanone	ug/L	<.47	<.47	<5.00	<5.00	<5.00	<5.00	<5.00
2-chloronaphthalene	ug/L			<8				
2-chlorophenol	ug/L			<8				
2-hexanone	ug/L	<.2	<.2	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene	ug/L			<8				
2-methylphenol (o-cresol)	ug/L			<8				
2-naphthylamine	ug/L			<8				
2-nitroaniline	ug/L			<8				
2-nitrophenol	ug/L			<8				
3,3´-dichlorobenzidine	ug/L			<8				
3,3'-dimethylbenzidine	ug/L			<8				
3-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	ug/L	<.22	<.22	<5.00	<5.00	<5.00	<5.00	<5.00
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	<1.79	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L			<10				
Acetophenone	ug/L			<8				
Acrolein	ug/L			<10				
Acrylonitrile	ug/L	<.53	<.53	<5.00	<5.00	<5.00	<5.00	<5.00
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 15

Analytical Data Summary for MW-28

Constituents	Units	10/24/2014	4/27/2015	10/21/2015	4/11/2016	10/11/2016	4/12/2017	10/26/2017
Antimony, total	ug/L	<.161	<.161	<2.000	<2.000	<2.000	<2.000	<2.000
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	64.2	45.4	12.9	55.2	39.5	61.2	28.8
Azobenzene	ug/L			<8				
Barium, total	ug/L	870	680	601	618	618	630	404
Benzene	ug/L	5.64	4.56	2.50	7.20	12.00	7.50	9.80
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	<.039	<.039	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc	ug/L			<.05				
Bis (2-chloroethoxy) methane	ug/L			<8				
Bis(2-chloroethyl) ether	ug/L			<8				
Bis(2-ethylhexyl) phthalate	ug/L		<.424	8.000	<10.000	<10.000	<6.000	<6.000
Bis[2-chloroisopropyl]ether	ug/L			<8				
Bromochloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate	ug/L			<8				
Cadmium, total	ug/L	<.112	<.112	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	ug/L	1.18	<.15	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane	ug/L			<.1				
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	ug/L			<8				
Chloroethane	ug/L	4.25	<5.00	1.40	<1.00	1.60	3.50	<1.00
Chloroform	ug/L	<.28	<.28	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene	ug/L			<1				
Chromium, total	ug/L	<1.24	<1.24	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene	ug/L			<8				
Cis-1,2-dichloroethylene	ug/L	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	ug/L	12.20	8.39	1.90	7.50	5.00	5.30	8.60
Copper, total	ug/L	2.860	<.485	<4.000	<4.000	<4.000	<4.000	<4.000
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	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane	ug/L		<.2	<1.0				
Dieldrin	ug/L			<.05				
Diethyl phthalate	ug/L		<.283	<8.000				
Dimethoate	ug/L			<.4				
Dimethylphthalate	ug/L			<8				
Di-n-butyl phthalate	ug/L		<.554	<8.000				
Di-n-octyl phthalate	ug/L			<8				
Dinoseb	ug/L			<.5				
Diphenylamine	ug/L			<8				
Disulfoton	ug/L			<.4				
Endosulfan i	ug/L		<.00217	<.05000				
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 15

Analytical Data Summary for MW-28

Constituents	Units	10/24/2014	4/27/2015	10/21/2015	4/11/2016	10/11/2016	4/12/2017	10/26/2017
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				
Iodomethane	ug/L	<.8	<.8	<1.0	<1.0	<1.0	<1.0	<1.0
Isobutanol	mg/L			<1				
Isodrin	ug/L			<8				
Isophorone	ug/L			<8				
Isosafrole	ug/L			<8				
Kepone	ug/L			<8				
Lead, total	ug/L	<.5000	<.0967	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total	ug/L			<.5				
Methacrylonitrile	ug/L			<1				
Methapyrilene	ug/L			<8				
Methoxychlor	ug/L			<.05				
Methyl methacrylate	ug/L			<1				
Methyl methanesulfonate	ug/L			<8				
Methyl parathion	ug/L			<.4				
Methylene chloride	ug/L	<.17	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene	ug/L			<8				
Nickel, total	ug/L	32.9	25.9	7.1	25.6	15.3	19.1	34.7
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				
P-(dimethylamino)azobenzene	ug/L			<8				
Parathion	ug/L			<.4				
Pentachlorobenzene	ug/L			<8				
Pentachloronitrobenzene (pcnb)	ug/L			<8				
Pentachlorophenol	ug/L			<8				
Phenacetin	ug/L			<8				
Phenanthrene	ug/L			<8				
Phenol	ug/L			<8				
Phorate	ug/L			<.4				
Pronamide	ug/L			<8				
Propionitrile	ug/L			<10				
Pyrene	ug/L			<8				
Safrole	ug/L			<8				
Selenium, total	ug/L	<3.34	<3.34	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	ug/L	<.042	<.042	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total	mg/L			.81	.24	<.10	<.10	.11
Tetrachloroethylene	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	ug/L	<.0325	<.0325	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Thionazin	ug/L			<.4				
Tin, total	ug/L		<1.8	<20.0	<20.0	<20.0		
Toluene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids	mg/L	172	141					
Toxaphene	ug/L			<.2				
Trans-1,2-dichloroethylene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field	NTU	52.57	18.25					
Turbidity, lab	NTU	57.5	680.0					
Vanadium, total	ug/L	<10	<1	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<.74	<.74	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	ug/L	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	ug/L	<1	<1	<2	<2	<2	<2	<2
Zinc, total	ug/L	<6.95	<6.95	<8.00	<8.00	<20.00	<8.00	<8.00

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

Table 16

Analytical Data Summary for MW-31

Constituents	Units	1/17/2018	4/11/2018	10/16/2018
Cobalt, total	ug/L	3.9	4.1	3.3

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

Table 17

Analytical Data Summary for MW-32

Constituents	Units	1/17/2018	4/11/2018	10/16/2018	4/18/2019	10/16/2019	4/6/2020	10/13/2020	4/12/2021
(3 4)-methylphenol	ug/L								
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								
1,2,3-trichloropropane	ug/L		<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L								
1,2,4-trichlorobenzene	ug/L								
1,2-dibromo-3-chloropropane	ug/L		<1	<1	<1	<1	<5	<5	<5
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								
1,3,5-trinitrobenzene	ug/L								
1,3-dichlorobenzene	ug/L								
1,3-dichloropropane	ug/L								
1,3-dinitrobenzene	ug/L								
1,4-dichlorobenzene	ug/L		<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L								
1,4-phenylenediamine	ug/L								
1-naphthylamine	ug/L								
2,2-dichloropropane	ug/L								
2,3,4,6-tetrachlorophenol	ug/L								
2,4,5-t	ug/L								
2,4,5-tp (silvex)	ug/L								
2,4,5-trichlorophenol	ug/L								
2,4,6-trichlorophenol	ug/L								
2,4-d	ug/L								
2,4-dichlorophenol	ug/L								
2,4-dimethylphenol	ug/L								
2,4-dinitrophenol	ug/L								
2,4-dinitrotoluene	ug/L								
2,6-dichlorophenol	ug/L								
2,6-dinitrotoluene	ug/L								
2-acetylaminofluorene	ug/L								
2-butanone	ug/L		<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene	ug/L								
2-chlorophenol	ug/L								
2-hexanone	ug/L		<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L								
2-methylphenol (o-cresol)	ug/L								
2-naphthylamine	ug/L								
2-nitroaniline	ug/L								
2-nitrophenol	ug/L								
3,3´-dichlorobenzidine	ug/L								
3,3'-dimethylbenzidine	ug/L								
3-methylcholanthrene	ug/L								
3-nitroaniline	ug/L								
4,4`-ddd	ug/L								
4,4`-dde	ug/L								
4,4`-ddt	ug/L								
4,6-dinitro-2-methylphenol	ug/L								
4-aminobiphenyl	ug/L								
4-bromophenyl phenyl ether	ug/L								
4-chloro-3-methylphenol	ug/L								
4-chloroaniline	ug/L								
4-chlorophenyl phenyl ether	ug/L								
4-methyl-2-pentanone	ug/L		<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	ug/L								
4-nitrophenol	ug/L								
5-nitro-o-toluidine	ug/L								
7,12-dimethylbenz [a] anthracene	ug/L								
Acenaphthene	ug/L								
Acenaphthylene	ug/L								
Acetone	ug/L		<10	<10	<10	<10	<10	<10	<10
Acetonitrile	ug/L								
Acetophenone	ug/L								
Acrolein	ug/L								
Acrylonitrile	ug/L		<5	<5	<5	<5	<5	<5	<5
Aldrin	ug/L								
Allyl chloride	ug/L								
Alpha-bhc	ug/L								
Anthracene	ug/L								

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

Table 17

Analytical Data Summary for MW-32

Constituents	7/1/2021	10/6/2021	4/14/2022	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
(3 4)-methylphenol		<8		<8				
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
1,1-dichloropropene		<1		<1				
1,2,3-trichloropropane		<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	<5	<1	<5	<5	<5	<5
1,2-dibromoethane		<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene		<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane		<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane		<1	<1	<1	<1	<1	<1	<1
1,2-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
1,4-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		<5	<10	<5	<10	<10	<10	<10
2-chloronaphthalene		<8		<8				
2-chlorophenol		<8		<8				
2-hexanone		<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene		<8		<8				
2-methylphenol (o-cresol)		<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				
4,4`-dde		<.05		<.05				
4,4`-ddt		<.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		<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
Acetonitrile		<10		<10				
Acetophenone		<8		<8				
Acrolein		<10		<10				
Acrylonitrile		<5	<5	<5	<5	<5	<5	<5
Aldrin		<.05		<.05				
Allyl chloride		<1		<1				
Alpha-bhc		<.05		<.05				
Anthracene		<8		<8				

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

Table 17

Analytical Data Summary for MW-32

Constituents	Units	1/17/2018	4/11/2018	10/16/2018	4/18/2019	10/16/2019	4/6/2020	10/13/2020	4/12/2021
Antimony, total	ug/L		<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L								
Arochlor 1221	ug/L								
Arochlor 1232	ug/L								
Arochlor 1242	ug/L								
Arochlor 1248	ug/L								
Arochlor 1254	ug/L								
Arochlor 1260	ug/L								
Arsenic, total	ug/L		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	5.5
Azobenzene	ug/L								
Barium, total	ug/L		247	199	238	199	205	188	254
Benzene	ug/L		<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene	ug/L								
Benzo(a)pyrene	ug/L								
Benzo(b)fluoranthene	ug/L								
Benzo(g,h,i)perylene	ug/L								
Benzo(k)fluoranthene	ug/L								
Benzyl alcohol	ug/L								
Beryllium, total	ug/L		<4	<4	<4	<4	<4	<4	<4
Beta-bhc	ug/L								
Bis (2-chloroethoxy) methane	ug/L								
Bis(2-chloroethyl) ether	ug/L								
Bis(2-ethylhexyl) phthalate	ug/L								
Bis[2-chloroisopropyl]ether	ug/L								
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								
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								
Chloride	mg/L								
Chlorobenzene	ug/L		<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	ug/L								
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								
Chromium, total	ug/L		<8	<8	<8	<8	<8	<8	<8
Chrysene	ug/L								
Cis-1,2-dichloroethylene	ug/L		<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L		<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	1.7	1.0	<.8	.8	<.8	.7	<.4	.4
COD, total	mg/L								
Copper, total	ug/L		<4	<4	<4	<4	<4	<4	<4
Cyanide, total	mg/L								
Delta-bhc	ug/L								
Diallate	ug/L								
Dibenzo(a,h)anthracene	ug/L								
Dibenzofuran	ug/L								
Dibromochloromethane	ug/L		<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L		<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L								
Dieldrin	ug/L								
Diethyl phthalate	ug/L								
Dimethoate	ug/L								
Dimethylphthalate	ug/L								
Di-n-butyl phthalate	ug/L								
Di-n-octyl phthalate	ug/L								
Dinoseb	ug/L								
Diphenylamine	ug/L								
Disulfoton	ug/L								
Endosulfan i	ug/L								
Endosulfan ii	ug/L								
Endosulfan sulfate	ug/L								
Endrin	ug/L								
Endrin aldehyde	ug/L								
Ethyl methacrylate	ug/L								
Ethyl methanesulfonate	ug/L								
Ethylbenzene	ug/L		<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L								
Fluoranthene	ug/L								
Fluorene	ug/L								
Gamma-bhc [lindane]	ug/L								
Heptachlor	ug/L								

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

Table 17

Analytical Data Summary for MW-32

Constituents	7/1/2021	10/6/2021	4/14/2022	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
Antimony, total		<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	<4.0	<4.0	<4.0	<4.0	8.9	<4.0	4.2
Azobenzene		<8		<8				
Barium, total	219	197	206	281	344	460	421	326
Benzene		<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
Beta-bhc		<.05		<.05				
Bis (2-chloroethoxy) methane		<8		<8				
Bis(2-chloroethyl) ether		<8		<8				
Bis(2-ethylhexyl) phthalate		<6		<6				
Bis[2-chloroisopropyl]ether		<8		<8				
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
Butyl benzyl phthalate		<8		<8				
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
Chlordane		<.1		<.1				
Chloride						26.9		
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate		<8		<8				
Chloroethane		<1	<1	<1	<1	<1	<1	<1
Chloroform		<1	<1	<1	<1	<1	<1	<1
Chloromethane		<1	<1	<1	<1	<1	<1	<1
Chloroprene		<1		<1				
Chromium, total		<8	<8	<8	<8	<8	<8	<8
Chrysene		<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		<.4	.4	2.3	.6	<.4	1.4	.4
COD, total						<20		
Copper, total		<4	<4	<4	<4	<4	<4	<4
Cyanide, total		<.005		<.005				
Delta-bhc		<.05		<.05				
Diallate		<8		<8				
Dibenzo(a,h)anthracene		<8		<8				
Dibenzofuran		<8		<8				
Dibromochloromethane		<1	<1	<1	<1	<1	<1	<1
Dibromomethane		<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane		<1		<1				
Dieldrin		<.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				
Endosulfan ii		<.05		<.05				
Endosulfan sulfate		<.05		<.05				
Endrin		<.05		<.05				
Endrin aldehyde		<.05		<.05				
Ethyl methacrylate		<10		<10				
Ethyl methanesulfonate		<8		<8				
Ethylbenzene		<1	<1	<1	<1	<1	<1	<1
Famphur		<.4		<.4				
Fluoranthene		<8		<8				
Fluorene		<8		<8				
Gamma-bhc [lindane]		<.05		<.05				
Heptachlor		<.05		<.05				

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

Table 17

Analytical Data Summary for MW-32

Constituents	Units	1/17/2018	4/11/2018	10/16/2018	4/18/2019	10/16/2019	4/6/2020	10/13/2020	4/12/2021
Heptachlor epoxide	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorobutadiene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Hexachloropropene	ug/L								
Indeno(1,2,3-cd)pyrene	ug/L								
Iodomethane	ug/L		<1	<1	<1	<1	<1	<1	<1
Isobutanol	mg/L								
Isodrin	ug/L								
Isophorone	ug/L								
Isosafrole	ug/L								
Kepone	ug/L								
Lead, total	ug/L		<4	<4	<4	<4	<4	<4	<4
Mercury, total	ug/L								
Methacrylonitrile	ug/L								
Methapyrilene	ug/L								
Methoxychlor	ug/L								
Methyl methacrylate	ug/L								
Methyl methanesulfonate	ug/L								
Methyl parathion	ug/L								
Methylene chloride	ug/L		<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L								
Nickel, total	ug/L		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Nitrobenzene	ug/L								
Nitrogen, Ammonia	mg/L								
N-nitrosodiethylamine	ug/L								
N-nitrosodimethylamine	ug/L								
N-nitrosodi-n-butylamine	ug/L								
N-nitroso-di-n-propylamine	ug/L								
N-nitrosodiphenylamine	ug/L								
N-nitrosomethylethylamine	ug/L								
N-nitrosopiperidine	ug/L								
N-nitrosopyrrolidine	ug/L								
O,o,o-triethyl phosphorothioate	ug/L								
O-toluidine	ug/L								
P-(dimethylamino)azobenzene	ug/L								
Parathion	ug/L								
Pentachlorobenzene	ug/L								
Pentachloronitrobenzene (pcnb)	ug/L								
Pentachlorophenol	ug/L								
Phenacetin	ug/L								
Phenanthrene	ug/L								
Phenol	ug/L								
Phorate	ug/L								
Pronamide	ug/L								
Propionitrile	ug/L								
Pyrene	ug/L								
Safrole	ug/L								
Selenium, total	ug/L		<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L		<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L		<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L								
Tetrachloroethylene	ug/L		<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L		<4	<4	<2	<2	<2	<2	<2
Thionazin	ug/L								
Tin, total	ug/L								
Toluene	ug/L		<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L								
Trans-1,2-dichloroethylene	ug/L		<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L		<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L		<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L		<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L		<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L		<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L		<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L		<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L		<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L		<8	<8	<20	<20	<20	<20	<20

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

Table 17

Analytical Data Summary for MW-32

Constituents	7/1/2021	10/6/2021	4/14/2022	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
Heptachlor epoxide		<.05		<.05				
Hexachlorobenzene		<.05		<.05				
Hexachlorobutadiene		<8		<8				
Hexachlorocyclopentadiene		<8		<8				
Hexachloroethane		<8		<8				
Hexachloropropene		<8		<8				
Indeno(1,2,3-cd)pyrene		<8		<8				
Iodomethane		<2	<1	<2	<1	<1	<1	<1
Isobutanol		<1		<1				
Isodrin		<8		<8				
Isophorone		<8		<8				
Isosafrole		<8		<8				
Kepone		<8		<8				
Lead, total		<4	<4	<4	<4	<4	<4	<4
Mercury, total		<.5		<.5				
Methacrylonitrile		<1		<1				
Methapyrilene		<8		<8				
Methoxychlor		<.05		<.05				
Methyl methacrylate		<1		<1				
Methyl methanesulfonate		<8		<8				
Methyl parathion		<.4		<.4				
Methylene chloride		<5	<5	<5	<5	<5	<5	<5
Naphthalene		<8		<8				
Nickel, total		<4.0	<4.0	<4.0	<4.0	<4.0	6.6	<4.0
Nitrobenzene		<8		<8				
Nitrogen, Ammonia						<.1		
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				
P-(dimethylamino)azobenzene		<8		<8				
Parathion		<.4		<.4				
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
Silver, total		<4	<4	<4	<4	<4	<4	<4
Styrene		<1	<1	<1	<1	<1	<1	<1
Sulfide, total		<.1		<.3				
Tetrachloroethylene		<1	<1	<1	<1	<1	<1	<1
Thallium, total		<2	<2	<2	<2	<2	<2	<2
Thionazin		<.4		<.4				
Tin, total		<20		<20				
Toluene		<1	<1	<1	<1	<1	<1	<1
Toxaphene		<.2		<.2				
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	<1	<1	<1	<1	<1	<1
Xylenes, total		<2	<2	<2	<2	<2	<2	<2
Zinc, total		<20	<20	<20	<20	<20	<20	<20

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

Table 18

Analytical Data Summary for MW-33

Constituents	Units	1/17/2018	7/2/2018	10/16/2018	4/18/2019	10/16/2019	4/6/2020	7/1/2020	10/13/2020
(3 4)-methylphenol	ug/L								
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
1,1-dichloropropene	ug/L								
1,2,3-trichloropropane	ug/L		<1	<1	<1	<1	<1		<1
1,2,4,5-tetrachlorobenzene	ug/L								
1,2,4-trichlorobenzene	ug/L								
1,2-dibromo-3-chloropropane	ug/L		<1	<1	<1	<1	<5		<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
1,2-dinitrobenzene	ug/L								
1,3,5-trinitrobenzene	ug/L								
1,3-dichlorobenzene	ug/L								
1,3-dichloropropane	ug/L								
1,3-dinitrobenzene	ug/L								
1,4-dichlorobenzene	ug/L		<1	<1	<1	<1	<1		<1
1,4-naphthoquinone	ug/L								
1,4-phenylenediamine	ug/L								
1-naphthylamine	ug/L								
2,2-dichloropropane	ug/L								
2,3,4,6-tetrachlorophenol	ug/L								
2,4,5-t	ug/L								
2,4,5-tp (silvex)	ug/L								
2,4,5-trichlorophenol	ug/L								
2,4,6-trichlorophenol	ug/L								
2,4-d	ug/L								
2,4-dichlorophenol	ug/L								
2,4-dimethylphenol	ug/L								
2,4-dinitrophenol	ug/L								
2,4-dinitrotoluene	ug/L								
2,6-dichlorophenol	ug/L								
2,6-dinitrotoluene	ug/L								
2-acetylaminofluorene	ug/L								
2-butanone	ug/L		<5	<5	<5	<5	<5		<5
2-chloronaphthalene	ug/L								
2-chlorophenol	ug/L								
2-hexanone	ug/L		<5	<5	<5	<5	<5		<5
2-methylnaphthalene	ug/L								
2-methylphenol (o-cresol)	ug/L								
2-naphthylamine	ug/L								
2-nitroaniline	ug/L								
2-nitrophenol	ug/L								
3,3´-dichlorobenzidine	ug/L								
3,3'-dimethylbenzidine	ug/L								
3-methylcholanthrene	ug/L								
3-nitroaniline	ug/L								
4,4`-ddd	ug/L								
4,4`-dde	ug/L								
4,4`-ddt	ug/L								
4,6-dinitro-2-methylphenol	ug/L								
4-aminobiphenyl	ug/L								
4-bromophenyl phenyl ether	ug/L								
4-chloro-3-methylphenol	ug/L								
4-chloroaniline	ug/L								
4-chlorophenyl phenyl ether	ug/L								
4-methyl-2-pentanone	ug/L		<5	<5	<5	<5	<5		<5
4-nitroaniline	ug/L								
4-nitrophenol	ug/L								
5-nitro-o-toluidine	ug/L								
7,12-dimethylbenz [a] anthracene	ug/L								
Acenaphthene	ug/L								
Acenaphthylene	ug/L								
Acetone	ug/L		<10	<10	<10	<10	<10		<10
Acetonitrile	ug/L								
Acetophenone	ug/L								
Acrolein	ug/L								
Acrylonitrile	ug/L		<5	<5	<5	<5	<5		<5
Aldrin	ug/L								
Allyl chloride	ug/L								
Alpha-bhc	ug/L								
Anthracene	ug/L								

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

Table 18

Analytical Data Summary for MW-33

Constituents	4/12/2021	10/6/2021	4/14/2022	7/13/2022	10/25/2022	4/3/2023	10/16/2023	4/22/2024
(3 4)-methylphenol					<8		<8	
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
1,1-dichloropropene					<1		<1	
1,2,3-trichloropropane	<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	<5	<5	<5		<1	<5	<1	<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
1,2-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
1,4-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					<.6			
2,4,5-tp (silvex)					<.6			
2,4,5-trichlorophenol					<8		<8	
2,4,6-trichlorophenol					<8		<8	
2,4-d					<2.5			
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	<5	<5	<10		<5	<10	<5	<10
2-chloronaphthalene					<8		<8	
2-chlorophenol					<8		<8	
2-hexanone	<5	<5	<5		<5	<5	<5	<5
2-methylnaphthalene					<8		<8	
2-methylphenol (o-cresol)					<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					<.06			
4,4`-dde					<.06			
4,4`-ddt					<.06			
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	<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
Acetonitrile					<10		<10	
Acetophenone					<8		<8	
Acrolein					<10		<10	
Acrylonitrile	<5	<5	<5		<5	<5	<5	<5
Aldrin					<.06			
Allyl chloride					<1		<1	
Alpha-bhc					<.06			
Anthracene					<8		<8	

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

Table 18

Analytical Data Summary for MW-33

Constituents	Units	1/17/2018	7/2/2018	10/16/2018	4/18/2019	10/16/2019	4/6/2020	7/1/2020	10/13/2020
Antimony, total	ug/L		<2.0	<2.0	<2.0	<2.0	<2.0		<2.0
Arochlor 1016	ug/L								
Arochlor 1221	ug/L								
Arochlor 1232	ug/L								
Arochlor 1242	ug/L								
Arochlor 1248	ug/L								
Arochlor 1254	ug/L								
Arochlor 1260	ug/L								
Arsenic, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Azobenzene	ug/L								
Barium, total	ug/L		127	107	222	140	139		136
Benzene	ug/L	<1	<1	<1	<1	<1	<1		<1
Benzo(a)anthracene	ug/L								
Benzo(a)pyrene	ug/L								
Benzo(b)fluoranthene	ug/L								
Benzo(g,h,i)perylene	ug/L								
Benzo(k)fluoranthene	ug/L								
Benzyl alcohol	ug/L								
Beryllium, total	ug/L		<4	<4	<4	<4	<4		<4
Beta-bhc	ug/L								
Bis (2-chloroethoxy) methane	ug/L								
Bis(2-chloroethyl) ether	ug/L								
Bis(2-ethylhexyl) phthalate	ug/L								
Bis[2-chloroisopropyl]ether	ug/L								
Bromochloromethane	ug/L		<1	<1	<1	<1	<1		<1
Bromodichloromethane	ug/L		<1	<1	<1	<1	<1		<1
Bromoform	ug/L		<1	<1	<1	<1	<1		<1
Bromomethane	ug/L		<1	<1	<1	<1	<1		<1
Butyl benzyl phthalate	ug/L								
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
Chlordane	ug/L								
Chloride	mg/L								
Chlorobenzene	ug/L		<1	<1	<1	<1	<1		<1
Chlorobenzilate	ug/L								
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
Chloroprene	ug/L								
Chromium, total	ug/L		<8	<8	<8	<8	<8		<8
Chrysene	ug/L								
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		<.8	<.8	6.2	<.8	2.7	<.4	<.4
COD, total	mg/L								
Copper, total	ug/L		<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Cyanide, total	mg/L								
Delta-bhc	ug/L								
Diallate	ug/L								
Dibenzo(a,h)anthracene	ug/L								
Dibenzofuran	ug/L								
Dibromochloromethane	ug/L		<1	<1	<1	<1	<1		<1
Dibromomethane	ug/L		<1	<1	<1	<1	<1		<1
Dichlorodifluoromethane	ug/L								
Dieldrin	ug/L								
Diethyl phthalate	ug/L								
Dimethoate	ug/L								
Dimethylphthalate	ug/L								
Di-n-butyl phthalate	ug/L								
Di-n-octyl phthalate	ug/L								
Dinoseb	ug/L								
Diphenylamine	ug/L								
Disulfoton	ug/L								
Endosulfan i	ug/L								
Endosulfan ii	ug/L								
Endosulfan sulfate	ug/L								
Endrin	ug/L								
Endrin aldehyde	ug/L								
Ethyl methacrylate	ug/L								
Ethyl methanesulfonate	ug/L								
Ethylbenzene	ug/L		<1	<1	<1	<1	<1		<1
Famphur	ug/L								
Fluoranthene	ug/L								
Fluorene	ug/L								
Gamma-bhc [lindane]	ug/L								
Heptachlor	ug/L								

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

Table 18

Analytical Data Summary for MW-33

Constituents	4/12/2021	10/6/2021	4/14/2022	7/13/2022	10/25/2022	4/3/2023	10/16/2023	4/22/2024
Antimony, total	<2.0	<2.0	<2.0		<2.0	<2.0	2.8	<2.0
Arochlor 1016					<.13			
Arochlor 1221					<.25			
Arochlor 1232					<.25			
Arochlor 1242					<.25			
Arochlor 1248					<.25			
Arochlor 1254					<.13			
Arochlor 1260					<.13			
Arsenic, total	<4.0	<4.0	<4.0		<4.0	<4.0	25.6	27.6
Azobenzene					<8		<8	
Barium, total	127	103	150		226	160	972	185
Benzene	<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
Beta-bhc					<.06			
Bis (2-chloroethoxy) methane					<8		<8	
Bis(2-chloroethyl) ether					<8		<8	
Bis(2-ethylhexyl) phthalate					55	<6	<6	<6
Bis[2-chloroisopropyl]ether					<8		<8	
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
Butyl benzyl phthalate					<8		<8	
Cadmium, total	<.8	<.8	<.8		<.8	.9	6.5	1.8
Carbon disulfide	<1	<1	<1		<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1		<1	<1	<1	<1
Chlordane					<.13			
Chloride							26.1	
Chlorobenzene	<1	<1	<1		<1	<1	<1	<1
Chlorobenzilate					<8		<8	
Chloroethane	<1	<1	<1		<1	<1	<1	<1
Chloroform	<1	<1	<1		<1	<1	<1	<1
Chloromethane	<1	<1	<1		<1	<1	<1	<1
Chloroprene					<1		<1	
Chromium, total	<8	<8	<8		<8	<8	<8	<8
Chrysene					<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	<.4	.5	1.9	2.0	16.1	1.4	149.0	86.3
COD, total							24	
Copper, total	<4.0	<4.0	<4.0		<4.0	<4.0	8.3	<4.0
Cyanide, total					<.005		<.005	
Delta-bhc					<.06			
Diallate					<8		<8	
Dibenzo(a,h)anthracene					<8		<8	
Dibenzofuran					<8		<8	
Dibromochloromethane	<1	<1	<1		<1	<1	<1	<1
Dibromomethane	<1	<1	<1		<1	<1	<1	<1
Dichlorodifluoromethane					<1		<1	
Dieldrin					<.06			
Diethyl phthalate					<8		<8	
Dimethoate					<.4			
Dimethylphthalate					<8		<8	
Di-n-butyl phthalate					<8		<8	
Di-n-octyl phthalate					<8		<8	
Dinoseb					<.6			
Diphenylamine					<8		<8	
Disulfoton					<.4			
Endosulfan i					<.06			
Endosulfan ii					<.06			
Endosulfan sulfate					<.06			
Endrin					<.06			
Endrin aldehyde					<.06			
Ethyl methacrylate					<10		<10	
Ethyl methanesulfonate					<8		<8	
Ethylbenzene	<1	<1	<1		<1	<1	<1	<1
Famphur					<.4			
Fluoranthene					<8		<8	
Fluorene					<8		<8	
Gamma-bhc [lindane]					<.06			
Heptachlor					<.06			

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

Table 18

Analytical Data Summary for MW-33

Constituents	Units	1/17/2018	7/2/2018	10/16/2018	4/18/2019	10/16/2019	4/6/2020	7/1/2020	10/13/2020
Heptachlor epoxide	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorobutadiene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Hexachloropropene	ug/L								
Indeno(1,2,3-cd)pyrene	ug/L								
Iodomethane	ug/L		<1	<1	<1	<1	<1		<1
Isobutanol	mg/L								
Isodrin	ug/L								
Isophorone	ug/L								
Isosafrole	ug/L								
Kepone	ug/L								
Lead, total	ug/L		<4	<4	<4	<4	<4		<4
Mercury, total	ug/L								
Methacrylonitrile	ug/L								
Methapyrilene	ug/L								
Methoxychlor	ug/L								
Methyl methacrylate	ug/L								
Methyl methanesulfonate	ug/L								
Methyl parathion	ug/L								
Methylene chloride	ug/L		<5	<5	<5	<5	<5		<5
Naphthalene	ug/L								
Nickel, total	ug/L		<4.0	<4.0	7.5	<4.0	4.2		<4.0
Nitrobenzene	ug/L								
Nitrogen, Ammonia	mg/L								
N-nitrosodiethylamine	ug/L								
N-nitrosodimethylamine	ug/L								
N-nitrosodi-n-butylamine	ug/L								
N-nitroso-di-n-propylamine	ug/L								
N-nitrosodiphenylamine	ug/L								
N-nitrosomethylethylamine	ug/L								
N-nitrosopiperidine	ug/L								
N-nitrosopyrrolidine	ug/L								
O,o,o-triethyl phosphorothioate	ug/L								
O-toluidine	ug/L								
P-(dimethylamino)azobenzene	ug/L								
Parathion	ug/L								
Pentachlorobenzene	ug/L								
Pentachloronitrobenzene (pcnb)	ug/L								
Pentachlorophenol	ug/L								
Phenacetin	ug/L								
Phenanthrene	ug/L								
Phenol	ug/L								
Phorate	ug/L								
Pronamide	ug/L								
Propionitrile	ug/L								
Pyrene	ug/L								
Safrole	ug/L								
Selenium, total	ug/L		<4	<4	<4	<4	<4		<4
Silver, total	ug/L		<8	<4	<4	<4	<4		<4
Styrene	ug/L		<1	<1	<1	<1	<1		<1
Sulfide, total	mg/L								
Tetrachloroethylene	ug/L		<1	<1	<1	<1	<1		<1
Thallium, total	ug/L		<4	<4	<2	<2	<2		<2
Thionazin	ug/L								
Tin, total	ug/L								
Toluene	ug/L		<1	<1	<1	<1	<1		<1
Toxaphene	ug/L								
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		<20.0	<20.0	<20.0	<20.0	<20.0		<20.0
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		<20	<8	<20	<20	<20		<20

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

Table 18

Analytical Data Summary for MW-33

Constituents	4/12/2021	10/6/2021	4/14/2022	7/13/2022	10/25/2022	4/3/2023	10/16/2023	4/22/2024
Heptachlor epoxide					<.06			
Hexachlorobenzene					<.06			
Hexachlorobutadiene					<8		<8	
Hexachlorocyclopentadiene					<8		<8	
Hexachloroethane					<8		<8	
Hexachloropropene					<8		<8	
Indeno(1,2,3-cd)pyrene					<8		<8	
Iodomethane	<1	<1	<1		<2	<1	<2	<1
Isobutanol					<1		<1	
Isodrin					<8		<8	
Isophorone					<8		<8	
Isosafrole					<8		<8	
Kepone					<8		<8	
Lead, total	<4	<4	<4		<4	<4	<4	<4
Mercury, total					<.5		<.5	
Methacrylonitrile					<1		<1	
Methapyrilene					<8		<8	
Methoxychlor					<.06			
Methyl methacrylate					<1		<1	
Methyl methanesulfonate					<8		<8	
Methyl parathion					<.4			
Methylene chloride	<5	<5	<5		<5	<5	<5	<5
Naphthalene					<8		<8	
Nickel, total	<4.0	<4.0	<4.0		5.1	5.8	46.9	112.0
Nitrobenzene					<8		<8	
Nitrogen, Ammonia							.1	
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			
O-toluidine					<8		<8	
P-(dimethylamino)azobenzene					<8		<8	
Parathion					<.4			
Pentachlorobenzene					<8		<8	
Pentachloronitrobenzene (pcnb)					<8		<8	
Pentachlorophenol					<8		<8	
Phenacetin					<8		<8	
Phenanthrene					<8		<8	
Phenol					<8		<8	
Phorate					<.4			
Pronamide					<8		<8	
Propionitrile					<10		<10	
Pyrene					<8		<8	
Safrole					<8		<8	
Selenium, total	<4	<4	<4		<4	<4	<4	<4
Silver, total	<4	<4	<4		<4	<4	<4	<4
Styrene	<1	<1	<1		<1	<1	<1	<1
Sulfide, total					<.1		<.1	
Tetrachloroethylene	<1	<1	<1		<1	<1	<1	<1
Thallium, total	<2	<2	<2		<2	<2	<2	<2
Thionazin					<.4			
Tin, total					<20		<20	
Toluene	<1	<1	<1		<1	<1	<1	<1
Toxaphene					<.25			
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	<20.0	<20.0	<20.0		<20.0	<20.0	92.7	<20.0
Vinyl acetate	<5	<5	<5		<5	<5	<5	<5
Vinyl chloride	<1	<1	<1		<1	<1	<1	<1
Xylenes, total	<2	<2	<2		<2	<2	<2	<2
Zinc, total	<20	<20	<20		<20	<20	<20	<20

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

Table 19

Analytical Data Summary for MW-34

Constituents	Units	1/17/2018
Arsenic, total	ug/L	<4
Benzene	ug/L	<1

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

Table 20

Analytical Data Summary for MW-35

Constituents	Units	1/17/2018
Arsenic, total	ug/L	<4
Benzene	ug/L	<1

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

Table 21

Analytical Data Summary for MW-36

Constituents	Units	1/17/2018
Arsenic, total	ug/L	<4
Benzene	ug/L	<1

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

Table 22

Analytical Data Summary for MW-37

Constituents	Units	1/17/2018
Arsenic, total	ug/L	<4
Benzene	ug/L	<1

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

Table 23

Analytical Data Summary for MW-5

Constituents	Units	10/17/2014	4/29/2015	10/21/2015	4/11/2016	10/11/2016	4/12/2017	10/26/2017	4/11/2018
(3 4)-methylphenol	ug/L			<8					
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	1.41	1.22	1.30	<1.00	<1.00	<1.00	<1.00	1.00
1,1-dichloroethylene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene	ug/L			<1					
1,2,3-trichloropropane	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene	ug/L			<8					
1,2,4-trichlorobenzene	ug/L			<1					
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	<.87	<.87	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	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	ug/L	<.47	16.80	<5.00	<5.00	<5.00	<5.00	<5.00	28.00
2-chloronaphthalene	ug/L			<8					
2-chlorophenol	ug/L			<8					
2-hexanone	ug/L	<.2	<.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene	ug/L			<8					
2-methylphenol (o-cresol)	ug/L			<8					
2-naphthylamine	ug/L			<8					
2-nitroaniline	ug/L			<8					
2-nitrophenol	ug/L			<8					
3,3´-dichlorobenzidine	ug/L			<8					
3,3'-dimethylbenzidine	ug/L			<8					
3-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	ug/L	<.22	<.22	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
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	<1.79	103.00	<10.00	<10.00	<10.00	<10.00	<10.00	1690.00
Acetonitrile	ug/L			<10					
Acetophenone	ug/L			<8					
Acrolein	ug/L			<10					
Acrylonitrile	ug/L	<.53	<.53	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin	ug/L			<.05					
Alkalinity, as CaCO3	mg/L								
Allyl chloride	ug/L			<1					
Alpha-bhc	ug/L			<.05					

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

Table 23

Analytical Data Summary for MW-5

Constituents	10/16/2018	4/17/2019	7/23/2019	10/15/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021	4/14/2022
(3 4)-methylphenol						<8			
1,1,1,2-tetrachloroethane	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene						<1			
1,2,3-trichloropropane	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene						<8			
1,2,4-trichlorobenzene						<1			
1,2-dibromo-3-chloropropane	<1.00	<1.00		<1.00	<5.00	<1.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene						<8			
1,3,5-trinitrobenzene						<8			
1,3-dichlorobenzene						<1			
1,3-dichloropropane						<1			
1,3-dinitrobenzene						<8			
1,4-dichlorobenzene	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	1.0	1.0
1,4-naphthoquinone						<8			
1,4-phenylenediamine						<8			
1-naphthylamine						<8			
2,2-dichloropropane						<1			
2,3,4,6-tetrachlorophenol						<8			
2,4,5-t						<.5			
2,4,5-tp (silvex)						<.5			
2,4,5-trichlorophenol						<8			
2,4,6-trichlorophenol						<8			
2,4-d						<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	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	28.40
2-chloronaphthalene						<8			
2-chlorophenol						<8			
2-hexanone	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene						<8			
2-methylphenol (o-cresol)						<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	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
4-nitroaniline						<8			
4-nitrophenol						<8			
5-nitro-o-toluidine						<8			
7,12-dimethylbenz [a] anthracene						<8			
Acenaphthene						<8			
Acenaphthylene						<8			
Acetone	<10.00	<10.00		<10.00	<10.00	<10.00	14.80	<10.00	751.00
Acetonitrile						<10			
Acetophenone						<8			
Acrolein						<10			
Acrylonitrile	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin						<.05			
Alkalinity, as CaCO3							688	645	485
Allyl chloride						<1			
Alpha-bhc						<.05			

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

Table 23

Analytical Data Summary for MW-5

Constituents	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
(3 4)-methylphenol					
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00	2.20
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene					
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene					
1,2,4-trichlorobenzene					
1,2-dibromo-3-chloropropane	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene					
1,3,5-trinitrobenzene					
1,3-dichlorobenzene					
1,3-dichloropropane					
1,3-dinitrobenzene					
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone					
1,4-phenylenediamine					
1-naphthylamine					
2,2-dichloropropane					
2,3,4,6-tetrachlorophenol					
2,4,5-t					
2,4,5-tp (silvex)					
2,4,5-trichlorophenol					
2,4,6-trichlorophenol					
2,4-d					
2,4-dichlorophenol					
2,4-dimethylphenol					
2,4-dinitrophenol					
2,4-dinitrotoluene					
2,6-dichlorophenol					
2,6-dinitrotoluene					
2-acetylaminofluorene					
2-butanone	<10.00	<10.00	<10.00	<10.00	<10.00
2-chloronaphthalene					
2-chlorophenol					
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene					
2-methylphenol (o-cresol)					
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	<5.00	<5.00	<5.00	<5.00	<5.00
4-nitroaniline					
4-nitrophenol					
5-nitro-o-toluidine					
7,12-dimethylbenz [a] anthracene					
Acenaphthene					
Acenaphthylene					
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile					
Acetophenone					
Acrolein					
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin					
Alkalinity, as CaCO3	612		663		138
Allyl chloride					
Alpha-bhc					

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

Table 23

Analytical Data Summary for MW-5

Constituents	Units	10/17/2014	4/29/2015	10/21/2015	4/11/2016	10/11/2016	4/12/2017	10/26/2017	4/11/2018
Anthracene	ug/L			<8					
Antimony, total	ug/L	<1.000	<.161	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
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	31.9	34.1	17.8	18.4	28.8	22.0	27.0	13.2
Azobenzene	ug/L			<8					
Barium, total	ug/L	236.0	334.0	329.0	113.0	67.7	82.1	128.0	179.0
Benzene	ug/L	6.31	7.19	6.70	4.60	5.70	4.70	6.20	8.70
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	<.039	<.039	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc	ug/L			<.05					
Bis (2-chloroethoxy) methane	ug/L			<8					
Bis(2-chloroethyl) ether	ug/L			<8					
Bis(2-ethylhexyl) phthalate	ug/L			8	<10	<10	<6	<6	<6
Bis[2-chloroisopropyl]ether	ug/L			<8					
Bromochloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate	ug/L			<8					
Cadmium, total	ug/L	<.112	<.112	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	ug/L	1.04	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane	ug/L			<.1					
Chloride	mg/L								
Chlorobenzene	ug/L	1.22	1.44	<1.00	<1.00	<1.00	<1.00	1.30	1.80
Chlorobenzilate	ug/L			<8					
Chloroethane	ug/L	6.05	8.30	6.80	7.20	7.20	6.00	5.00	6.30
Chloroform	ug/L	<.28	<.28	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene	ug/L			<1					
Chromium, total	ug/L	<1.24	<1.24	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene	ug/L			<8					
Cis-1,2-dichloroethylene	ug/L	2.06	2.02	1.90	1.60	1.60	1.60	1.50	2.40
Cis-1,3-dichloropropene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	ug/L	9.47	13.40	1.40	11.60	1.00	7.30	.80	1.30
COD, total	mg/L								
Copper, total	ug/L	2.12	<10.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
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	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane	ug/L		<.2	<1.0					
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					
Ethane	ug/L								
Ethene	ug/L								
Ethyl methacrylate	ug/L			<10					
Ethyl methanesulfonate	ug/L			<8					
Ethylbenzene	ug/L	2.31	15.40	<1.00	<1.00	<1.00	<1.00	1.20	23.00
Famphur	ug/L			<.4					
Fluoranthene	ug/L			<8					

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

Table 23

Analytical Data Summary for MW-5

Constituents	10/16/2018	4/17/2019	7/23/2019	10/15/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021	4/14/2022
Anthracene						<8			
Antimony, total	<2.000	<2.000		<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arochlor 1016						<.1			
Arochlor 1221						<.2			
Arochlor 1232						<.2			
Arochlor 1242						<.2			
Arochlor 1248						<.2			
Arochlor 1254						<.1			
Arochlor 1260						<.1			
Arsenic, total	37.5	27.1		59.3	28.5	30.0	56.2	17.9	5.3
Azobenzene						<8			
Barium, total	176.0	169.0		202.0	179.0	149.0	129.0	1290.0	481.0
Benzene	5.90	6.60		5.60	5.60	6.30	5.70	4.50	6.00
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	<4.000	<4.000		<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc						<.05			
Bis (2-chloroethoxy) methane						<8			
Bis(2-chloroethyl) ether						<8			
Bis(2-ethylhexyl) phthalate	<6					<6			
Bis[2-chloroisopropyl]ether						<8			
Bromochloromethane	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate						<8			
Cadmium, total	<.800	<.800		<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	2.40
Carbon tetrachloride	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane						<.1			
Chloride									
Chlorobenzene	<1.00	<1.00		1.00	<1.00	1.00	<1.00	1.10	1.50
Chlorobenzilate						<8			
Chloroethane	2.80	5.50		3.50	4.90	4.20	4.20	3.20	3.20
Chloroform	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene						<1			
Chromium, total	<8.00	<8.00		<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene						<8			
Cis-1,2-dichloroethylene	<1.00	1.30		<1.00	<1.00	1.20	<1.00	1.60	1.50
Cis-1,3-dichloropropene	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	<.80	4.80		<.80	.60	.90	2.70	.50	.60
COD, total									
Copper, total	<4.00	<4.00		<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Cyanide, total						<.005			
Delta-bhc						<.05			
Diallate						<8			
Dibenzo(a,h)anthracene						<8			
Dibenzofuran						<8			
Dibromochloromethane	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane						<1.0			
Dieldrin						<.05			
Diethyl phthalate						<8			
Dimethoate						<.4			
Dimethylphthalate						<8			
Di-n-butyl phthalate						<8			
Di-n-octyl phthalate						<8			
Dinoseb						<.5			
Diphenylamine						<8			
Disulfoton						<.4			
Endosulfan i						<.05			
Endosulfan ii						<.05			
Endosulfan sulfate						<.05			
Endrin						<.05			
Endrin aldehyde						<.05			
Ethane			<10						
Ethene			<10						
Ethyl methacrylate						<10			
Ethyl methanesulfonate						<8			
Ethylbenzene	<1.00	2.90		<1.00	<1.00	<1.00	5.10	<1.00	11.90
Famphur						<.4			
Fluoranthene						<8			

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

Table 23

Analytical Data Summary for MW-5

Constituents	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
Anthracene					
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000
Arochlor 1016					
Arochlor 1221					
Arochlor 1232					
Arochlor 1242					
Arochlor 1248					
Arochlor 1254					
Arochlor 1260					
Arsenic, total	9.1	21.4	13.7	15.0	10.6
Azobenzene					
Barium, total	763.0	234.0	509.0	261.0	608.0
Benzene	5.40	6.50	4.50	3.70	5.20
Benzo(a)anthracene					
Benzo(a)pyrene					
Benzo(b)fluoranthene					
Benzo(g,h,i)perylene					
Benzo(k)fluoranthene					
Benzyl alcohol					
Beryllium, total	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc					
Bis (2-chloroethoxy) methane					
Bis(2-chloroethyl) ether					
Bis(2-ethylhexyl) phthalate					
Bis[2-chloroisopropyl]ether					
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate					
Cadmium, total	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane					
Chloride			3.6		
Chlorobenzene	1.10	1.10	1.00	<1.00	1.00
Chlorobenzilate					
Chloroethane	3.80	5.60	4.00	4.10	6.10
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene					
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene					
Cis-1,2-dichloroethylene	1.80	1.80	1.60	1.10	1.10
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	.50	.60	.90	.60	1.40
COD, total			44		
Copper, total	<4.00	<4.00	<4.00	<4.00	<4.00
Cyanide, total					
Delta-bhc					
Diallate					
Dibenzo(a,h)anthracene					
Dibenzofuran					
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
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					
Ethane					<5
Ethene					<5
Ethyl methacrylate					
Ethyl methanesulfonate					
Ethylbenzene	2.70	<1.00	<1.00	<1.00	<1.00
Famphur					
Fluoranthene					

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

Table 23

Analytical Data Summary for MW-5

Constituents	Units	10/17/2014	4/29/2015	10/21/2015	4/11/2016	10/11/2016	4/12/2017	10/26/2017	4/11/2018
Fluorene	ug/L			<8					
Gamma-bhc [lindane]	ug/L			<.05					
Heptachlor	ug/L			<.05					
Heptachlor epoxide	ug/L			<.05					
Hexachlorobenzene	ug/L			<.05					
Hexachlorobutadiene	ug/L			<8					
Hexachlorocyclopentadiene	ug/L			<8					
Hexachloroethane	ug/L			<8					
Hexachloropropene	ug/L			<8					
Indeno(1,2,3-cd)pyrene	ug/L			<8					
Iodomethane	ug/L	<.8	<.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isobutanol	mg/L		<.177	<1.000					
Isodrin	ug/L			<8					
Isophorone	ug/L			<8					
Isosafrole	ug/L			<8					
Kepone	ug/L			<8					
Lead, total	ug/L	<1.000	.672	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Mercury, total	ug/L			<.5					
Methacrylonitrile	ug/L			<1					
Methane	ug/L								
Methapyrilene	ug/L			<8					
Methoxychlor	ug/L			<.05					
Methyl methacrylate	ug/L			<1					
Methyl methanesulfonate	ug/L			<8					
Methyl parathion	ug/L			<.4					
Methylene chloride	ug/L	<.17	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene	ug/L			<8					
Nickel, total	ug/L	14.90	6.13	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Nitrobenzene	ug/L			<8					
Nitrogen, Ammonia	mg/L								
N-nitrosodiethylamine	ug/L			<8					
N-nitrosodimethylamine	ug/L			<8					
N-nitrosodi-n-butylamine	ug/L			<8					
N-nitroso-di-n-propylamine	ug/L			<8					
N-nitrosodiphenylamine	ug/L			<8					
N-nitrosomethylethylamine	ug/L			<8					
N-nitrosopiperidine	ug/L			<8					
N-nitrosopyrrolidine	ug/L			<8					
O,o,o-triethyl phosphorothioate	ug/L			<.4					
O-toluidine	ug/L			<8					
P-(dimethylamino)azobenzene	ug/L			<8					
Parathion	ug/L			<.4					
Pentachlorobenzene	ug/L			<8					
Pentachloronitrobenzene (pcnb)	ug/L			<8					
Pentachlorophenol	ug/L			<8					
pH	pH								
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	<3.34	<3.34	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	ug/L	<.042	<.042	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total	mg/L			.24	.13	1.70	<.10	.14	<.10
Tetrachloroethylene	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	ug/L	<.0325	<.0325	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Thionazin	ug/L			<.4					
Tin, total	ug/L			<20	<20	<20			
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total suspended solids	mg/L	129	164						
Toxaphene	ug/L			<.2					
Trans-1,2-dichloroethylene	ug/L	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	ug/L	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field	NTU	18.80	12.78						
Turbidity, lab	NTU	466	403						
Vanadium, total	ug/L	<10.00	5.74	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Vinyl acetate	ug/L	<.74	<.74	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	ug/L	<.1	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0
Xylenes, total	ug/L	<10.0	10.4	<2.0	<2.0	<2.0	<2.0	<2.0	23.5
Zinc, total	ug/L	<10.0	10.6	28.2	<8.0	<20.0	10.3	<8.0	<20.0

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

Table 23

Analytical Data Summary for MW-5

Constituents	10/16/2018	4/17/2019	7/23/2019	10/15/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021	4/14/2022
Fluorene						<8			
Gamma-bhc [lindane]						<.05			
Heptachlor						<.05			
Heptachlor epoxide						<.05			
Hexachlorobenzene						<.05			
Hexachlorobutadiene						<8			
Hexachlorocyclopentadiene						<8			
Hexachloroethane						<8			
Hexachloropropene						<8			
Indeno(1,2,3-cd)pyrene						<8			
Iodomethane	<1.0	<1.0		<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
Isobutanol						<1.000			
Isodrin						<8			
Isophorone						<8			
Isosafrole						<8			
Kepone						<8			
Lead, total	<4.000	<4.000		<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Mercury, total						<.5			
Methacrylonitrile						<1			
Methane			5060						
Methapyrilene						<8			
Methoxychlor						<.05			
Methyl methacrylate						<1			
Methyl methanesulfonate						<8			
Methyl parathion						<.4			
Methylene chloride	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene						<8			
Nickel, total	<4.00	<4.00		<4.00	<4.00	<4.00	4.60	<4.00	<4.00
Nitrobenzene						<8			
Nitrogen, Ammonia									
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			
P-(dimethylamino)azobenzene						<8			
Parathion						<.4			
Pentachlorobenzene						<8			
Pentachloronitrobenzene (pcnb)						<8			
Pentachlorophenol						<8			
pH							7.0	6.5	6.4
Phenacetin						<8			
Phenanthrene						<8			
Phenol						<8			
Phorate						<.4			
Pronamide						<8			
Propionitrile						<10			
Pyrene						<8			
Safrole						<8			
Selenium, total	<4.00	<4.00		<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000		<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total	<.10	<.10		<.10	.18	.30	.25	<.10	.66
Tetrachloroethylene	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<4.0000	<2.0000		<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Thionazin						<.4			
Tin, total						<20			
Toluene	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total suspended solids									
Toxaphene						<.2			
Trans-1,2-dichloroethylene	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.00	<20.00		<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Vinyl acetate	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.0	<2.0		<2.0	<2.0	<2.0	2.8	<2.0	6.7
Zinc, total	9.2	<20.0		<8.0	<20.0	<20.0	<20.0	<20.0	<20.0

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

Table 23

Analytical Data Summary for MW-5

Constituents	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
Fluorene					
Gamma-bhc [lindane]					
Heptachlor					
Heptachlor epoxide					
Hexachlorobenzene					
Hexachlorobutadiene					
Hexachlorocyclopentadiene					
Hexachloroethane					
Hexachloropropene					
Indeno(1,2,3-cd)pyrene					
Iodomethane	<1.0	<1.0	<1.0	<1.0	<1.0
Isobutanol					
Isodrin					
Isophorone					
Isosafrole					
Kepone					
Lead, total	<4.000	<4.000	<4.000	<4.000	<4.000
Mercury, total					
Methacrylonitrile					
Methane					1520
Methapyrilene					
Methoxychlor					
Methyl methacrylate					
Methyl methanesulfonate					
Methyl parathion					
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene					
Nickel, total	<4.00	<4.00	<4.00	<4.00	5.10
Nitrobenzene					
Nitrogen, Ammonia			4.8		
N-nitrosodiethylamine					
N-nitrosodimethylamine					
N-nitrosodi-n-butylamine					
N-nitroso-di-n-propylamine					
N-nitrosodiphenylamine					
N-nitrosomethylethylamine					
N-nitrosopiperidine					
N-nitrosopyrrolidine					
O,o,o-triethyl phosphorothioate					
O-toluidine					
P-(dimethylamino)azobenzene					
Parathion					
Pentachlorobenzene					
Pentachloronitrobenzene (pcnb)					
Pentachlorophenol					
pH	6.4		6.4		6.3
Phenacetin					
Phenanthrene					
Phenol					
Phorate					
Pronamide					
Propionitrile					
Pyrene					
Safrole					
Selenium, total	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total	<.30	<.30	.17	<.10	.28
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Thionazin					
Tin, total					
Toluene	6.5	<1.0	<1.0	<1.0	2.3
Total suspended solids					
Toxaphene					
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field					
Turbidity, lab					
Vanadium, total	<20.00	<20.00	<20.00	<20.00	<20.00
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	1.2	<1.0	<1.0	<1.0
Xylenes, total	<2.0	<2.0	<2.0	<2.0	<2.0
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0

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

Table 24

Analytical Data Summary for MW-6

Constituents	Units	10/27/2014	4/29/2015	10/20/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017	1/17/2018
(3 4)-methylphenol	ug/L								
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	
1,1,1-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,2-trichloroethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	
1,1-dichloroethane	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	
1,1-dichloroethylene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	
1,1-dichloropropene	ug/L								
1,2,3-trichloropropane	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2,4,5-tetrachlorobenzene	ug/L								
1,2,4-trichlorobenzene	ug/L								
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-dibromoethane	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-dichlorobenzene	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-dichloroethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-dichloropropane	ug/L	<.87	<.87	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-dinitrobenzene	ug/L								
1,3,5-trinitrobenzene	ug/L								
1,3-dichlorobenzene	ug/L								
1,3-dichloropropane	ug/L								
1,3-dinitrobenzene	ug/L								
1,4-dichlorobenzene	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	
1,4-naphthoquinone	ug/L								
1,4-phenylenediamine	ug/L								
1-naphthylamine	ug/L								
2,2-dichloropropane	ug/L								
2,3,4,6-tetrachlorophenol	ug/L								
2,4,5-t	ug/L								
2,4,5-tp (silvex)	ug/L								
2,4,5-trichlorophenol	ug/L								
2,4,6-trichlorophenol	ug/L								
2,4-d	ug/L								
2,4-dichlorophenol	ug/L								
2,4-dimethylphenol	ug/L								
2,4-dinitrophenol	ug/L								
2,4-dinitrotoluene	ug/L								
2,6-dichlorophenol	ug/L								
2,6-dinitrotoluene	ug/L								
2-acetylaminofluorene	ug/L								
2-butanone	ug/L	<.47	<.47	<5.00	<5.00	<5.00	<5.00	<5.00	
2-chloronaphthalene	ug/L								
2-chlorophenol	ug/L								
2-hexanone	ug/L	<.2	<.2	<5.0	<5.0	<5.0	<5.0	<5.0	
2-methylnaphthalene	ug/L								
2-methylphenol (o-cresol)	ug/L								
2-naphthylamine	ug/L								
2-nitroaniline	ug/L								
2-nitrophenol	ug/L								
3,3´-dichlorobenzidine	ug/L								
3,3'-dimethylbenzidine	ug/L								
3-methylcholanthrene	ug/L								
3-nitroaniline	ug/L								
4,4`-ddd	ug/L								
4,4`-dde	ug/L								
4,4`-ddt	ug/L								
4,6-dinitro-2-methylphenol	ug/L								
4-aminobiphenyl	ug/L								
4-bromophenyl phenyl ether	ug/L								
4-chloro-3-methylphenol	ug/L								
4-chloroaniline	ug/L								
4-chlorophenyl phenyl ether	ug/L								
4-methyl-2-pentanone	ug/L	<.22	<.22	<5.00	<5.00	<5.00	<5.00	<5.00	
4-nitroaniline	ug/L								
4-nitrophenol	ug/L								
5-nitro-o-toluidine	ug/L								
7,12-dimethylbenz [a] anthracene	ug/L								
Acenaphthene	ug/L								
Acenaphthylene	ug/L								
Acetone	ug/L	<1.79	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	
Acetonitrile	ug/L								
Acetophenone	ug/L								
Acrolein	ug/L								
Acrylonitrile	ug/L	<.53	<.53	<5.00	<5.00	<5.00	<5.00	<5.00	
Aldrin	ug/L								
Allyl chloride	ug/L								
Alpha-bhc	ug/L								
Anthracene	ug/L								

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

Table 24

Analytical Data Summary for MW-6

Constituents	4/11/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022
(3 4)-methylphenol	<8		<8						
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene	<1		<1						
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene	<8		<8						
1,2,4-trichlorobenzene	<1		<1						
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
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	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.00
2-chloronaphthalene	<8		<8						
2-chlorophenol	<8		<8						
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene	<8		<8						
2-methylphenol (o-cresol)	<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						
4,4`-dde	<.05		<.05						
4,4`-ddt	<.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	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
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	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	<10		<10						
Acetophenone	<8		<8						
Acrolein	<10		<10						
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin	<.05		<.05						
Allyl chloride	<1		<1						
Alpha-bhc	<.05		<.05						
Anthracene	<8		<8						

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

Table 24

Analytical Data Summary for MW-6

Constituents	10/25/2022	1/9/2023	4/3/2023	10/16/2023
(3 4)-methylphenol				
1,1,1,2-tetrachloroethane	<1.00		<1.00	<1.00
1,1,1-trichloroethane	<1.00		<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0		<1.0	<1.0
1,1,2-trichloroethane	<1.00		<1.00	<1.00
1,1-dichloroethane	<1.00		<1.00	<1.00
1,1-dichloroethylene	<1.00		<1.00	<1.00
1,1-dichloropropene				
1,2,3-trichloropropane	<1.00		<1.00	<1.00
1,2,4,5-tetrachlorobenzene				
1,2,4-trichlorobenzene				
1,2-dibromo-3-chloropropane	<5.00		<5.00	<5.00
1,2-dibromoethane	<1.00		<1.00	<1.00
1,2-dichlorobenzene	<1.00		<1.00	<1.00
1,2-dichloroethane	<1.00		<1.00	<1.00
1,2-dichloropropane	<1.00		<1.00	<1.00
1,2-dinitrobenzene				
1,3,5-trinitrobenzene				
1,3-dichlorobenzene				
1,3-dichloropropane				
1,3-dinitrobenzene				
1,4-dichlorobenzene	<1.0		<1.0	<1.0
1,4-naphthoquinone				
1,4-phenylenediamine				
1-naphthylamine				
2,2-dichloropropane				
2,3,4,6-tetrachlorophenol				
2,4,5-t				
2,4,5-tp (silvex)				
2,4,5-trichlorophenol				
2,4,6-trichlorophenol				
2,4-d				
2,4-dichlorophenol				
2,4-dimethylphenol				
2,4-dinitrophenol				
2,4-dinitrotoluene				
2,6-dichlorophenol				
2,6-dinitrotoluene				
2-acetylaminofluorene				
2-butanone	<10.00		<10.00	<10.00
2-chloronaphthalene				
2-chlorophenol				
2-hexanone	<5.0		<5.0	<5.0
2-methylnaphthalene				
2-methylphenol (o-cresol)				
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	<5.00		<5.00	<5.00
4-nitroaniline				
4-nitrophenol				
5-nitro-o-toluidine				
7,12-dimethylbenz [a] anthracene				
Acenaphthene				
Acenaphthylene				
Acetone	<10.00		<10.00	<10.00
Acetonitrile				
Acetophenone				
Acrolein				
Acrylonitrile	<5.00		<5.00	<5.00
Aldrin				
Allyl chloride				
Alpha-bhc				
Anthracene				

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

Table 24

Analytical Data Summary for MW-6

Constituents	Units	10/27/2014	4/29/2015	10/20/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017	1/17/2018
Antimony, total	ug/L	<.161	<.161	2.700	<2.000	<2.000	<2.000	<2.000	
Arochlor 1016	ug/L								
Arochlor 1221	ug/L								
Arochlor 1232	ug/L								
Arochlor 1242	ug/L								
Arochlor 1248	ug/L								
Arochlor 1254	ug/L								
Arochlor 1260	ug/L								
Arsenic, total	ug/L	<2.0	<2.0	<4.0	<4.0	5.5	<4.0	4.6	5.1
Azobenzene	ug/L								
Barium, total	ug/L	79.4	76.4	24.4	107.0	51.7	146.0	53.1	
Benzene	ug/L	<.11	<.11	<1.00	<1.00	<1.00	<1.00	<1.00	
Benzo(a)anthracene	ug/L								
Benzo(a)pyrene	ug/L								
Benzo(b)fluoranthene	ug/L								
Benzo(g,h,i)perylene	ug/L								
Benzo(k)fluoranthene	ug/L								
Benzyl alcohol	ug/L								
Beryllium, total	ug/L	<.039	<.039	<4.000	<4.000	<4.000	<4.000	<4.000	
Beta-bhc	ug/L								
Bis (2-chloroethoxy) methane	ug/L								
Bis(2-chloroethyl) ether	ug/L								
Bis(2-ethylhexyl) phthalate	ug/L								
Bis[2-chloroisopropyl]ether	ug/L								
Bromochloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	
Bromodichloromethane	ug/L	<.12	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	
Bromoform	ug/L	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	
Bromomethane	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	
Butyl benzyl phthalate	ug/L								
Cadmium, total	ug/L	<.112	<.112	<.800	<.800	<.800	<.800	<.800	
Carbon disulfide	ug/L	<1.00	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	
Carbon tetrachloride	ug/L	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	
Chlordane	ug/L								
Chlorobenzene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	
Chlorobenzilate	ug/L								
Chloroethane	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	
Chloroform	ug/L	<.28	<.28	<1.00	<1.00	<1.00	<1.00	<1.00	
Chloromethane	ug/L	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	
Chloroprene	ug/L								
Chromium, total	ug/L	<1.24	<1.24	<8.00	<8.00	<8.00	<8.00	<8.00	
Chrysene	ug/L								
Cis-1,2-dichloroethylene	ug/L	<.13	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	
Cis-1,3-dichloropropene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	
Cobalt, total	ug/L	<1.0	<1.0	<.8	<.8	<.8	<.8	<.8	
Copper, total	ug/L	<.485	<.485	<4.000	<4.000	<4.000	<4.000	<4.000	
Cyanide, total	mg/L								
Delta-bhc	ug/L								
Diallate	ug/L								
Dibenzo(a,h)anthracene	ug/L								
Dibenzofuran	ug/L								
Dibromochloromethane	ug/L	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	
Dibromomethane	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	
Dichlorodifluoromethane	ug/L								
Dieldrin	ug/L								
Diethyl phthalate	ug/L								
Dimethoate	ug/L								
Dimethylphthalate	ug/L								
Di-n-butyl phthalate	ug/L								
Di-n-octyl phthalate	ug/L								
Dinoseb	ug/L								
Diphenylamine	ug/L								
Disulfoton	ug/L								
Endosulfan i	ug/L								
Endosulfan ii	ug/L								
Endosulfan sulfate	ug/L								
Endrin	ug/L								
Endrin aldehyde	ug/L								
Ethyl methacrylate	ug/L								
Ethyl methanesulfonate	ug/L								
Ethylbenzene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	
Famphur	ug/L								
Fluoranthene	ug/L								
Fluorene	ug/L								
Gamma-bhc [lindane]	ug/L								
Heptachlor	ug/L								
Heptachlor epoxide	ug/L								
Hexachlorobenzene	ug/L								

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

Table 24

Analytical Data Summary for MW-6

Constituents	4/11/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
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	4.5	<4.0	<4.0	4.7	<4.0	<4.0	<4.0	<4.0	<4.0
Azobenzene	<8		<8						
Barium, total	129.0	54.8	299.0	57.7	238.0	47.1	96.2	68.0	132.0
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc	<.05		<.05						
Bis (2-chloroethoxy) methane	<8		<8						
Bis(2-chloroethyl) ether	<8		<8						
Bis(2-ethylhexyl) phthalate	<6		<6						
Bis[2-chloroisopropyl]ether	<8		<8						
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate	<8		<8						
Cadmium, total	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane	<.1		<.1						
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate	<8		<8						
Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene	<1		<1						
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene	<8		<8						
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	<.8	<.8	<.8	<.8	<.4	<.4	<.4	<.4	.6
Copper, total	<4.000	<4.000	11.400	<4.000	<4.000	<4.000	<4.000	<4.000	5.000
Cyanide, total	<.005		<.005						
Delta-bhc	<.05		<.05						
Diallate	<8		<8						
Dibenzo(a,h)anthracene	<8		<8						
Dibenzofuran	<8		<8						
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane	<1		<1						
Dieldrin	<.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						
Endosulfan ii	<.05		<.05						
Endosulfan sulfate	<.05		<.05						
Endrin	<.05		<.05						
Endrin aldehyde	<.05		<.05						
Ethyl methacrylate	<10		<10						
Ethyl methanesulfonate	<8		<8						
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur	<.4		<.4						
Fluoranthene	<8		<8						
Fluorene	<8		<8						
Gamma-bhc [lindane]	<.05		<.05						
Heptachlor	<.05		<.05						
Heptachlor epoxide	<.05		<.05						
Hexachlorobenzene	<.05		<.05						

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

Table 24

Analytical Data Summary for MW-6

Constituents	10/25/2022	1/9/2023	4/3/2023	10/16/2023
Antimony, total	<2.000		<2.000	<2.000
Arochlor 1016				
Arochlor 1221				
Arochlor 1232				
Arochlor 1242				
Arochlor 1248				
Arochlor 1254				
Arochlor 1260				
Arsenic, total	<4.0		<4.0	<4.0
Azobenzene				
Barium, total	44.0		90.3	50.5
Benzene	<1.00		<1.00	<1.00
Benzo(a)anthracene				
Benzo(a)pyrene				
Benzo(b)fluoranthene				
Benzo(g,h,i)perylene				
Benzo(k)fluoranthene				
Benzyl alcohol				
Beryllium, total	<4.000		<4.000	<4.000
Beta-bhc				
Bis (2-chloroethoxy) methane				
Bis(2-chloroethyl) ether				
Bis(2-ethylhexyl) phthalate				
Bis[2-chloroisopropyl]ether				
Bromochloromethane	<1.00		<1.00	<1.00
Bromodichloromethane	<1.00		<1.00	<1.00
Bromoform	<1.00		<1.00	<1.00
Bromomethane	<1.00		<1.00	<1.00
Butyl benzyl phthalate				
Cadmium, total	<.800		<.800	<.800
Carbon disulfide	<1.00		<1.00	<1.00
Carbon tetrachloride	<1.00		<1.00	<1.00
Chlordane				
Chlorobenzene	<1.00		<1.00	<1.00
Chlorobenzilate				
Chloroethane	<1.00		<1.00	<1.00
Chloroform	<1.00		<1.00	<1.00
Chloromethane	<1.00		<1.00	<1.00
Chloroprene				
Chromium, total	<8.00		<8.00	<8.00
Chrysene				
Cis-1,2-dichloroethylene	<1.00		<1.00	<1.00
Cis-1,3-dichloropropene	<1.00		<1.00	<1.00
Cobalt, total	1.7	<2.0	<.4	<.4
Copper, total	<4.000		<4.000	<4.000
Cyanide, total				
Delta-bhc				
Diallate				
Dibenzo(a,h)anthracene				
Dibenzofuran				
Dibromochloromethane	<1.0		<1.0	<1.0
Dibromomethane	<1.00		<1.00	<1.00
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	<1.00		<1.00	<1.00
Famphur				
Fluoranthene				
Fluorene				
Gamma-bhc [lindane]				
Heptachlor				
Heptachlor epoxide				
Hexachlorobenzene				

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

Table 24

Analytical Data Summary for MW-6

Constituents	Units	10/27/2014	4/29/2015	10/20/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017	1/17/2018
Hexachlorobutadiene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Hexachloropropene	ug/L								
Indeno(1,2,3-cd)pyrene	ug/L								
Iodomethane	ug/L	<.8	<.8	<1.0	<1.0	<1.0	<1.0	<1.0	
Isobutanol	mg/L								
Isodrin	ug/L								
Isophorone	ug/L								
Isosafrole	ug/L								
Kepone	ug/L								
Lead, total	ug/L	<.0967	<1.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	
Mercury, total	ug/L								
Methacrylonitrile	ug/L								
Methapyrilene	ug/L								
Methoxychlor	ug/L								
Methyl methacrylate	ug/L								
Methyl methanesulfonate	ug/L								
Methyl parathion	ug/L								
Methylene chloride	ug/L	<.17	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	
Naphthalene	ug/L								
Nickel, total	ug/L	<10	<10	<4	<4	<4	<4	<4	
Nitrobenzene	ug/L								
N-nitrosodiethylamine	ug/L								
N-nitrosodimethylamine	ug/L								
N-nitrosodi-n-butylamine	ug/L								
N-nitroso-di-n-propylamine	ug/L								
N-nitrosodiphenylamine	ug/L								
N-nitrosomethylethylamine	ug/L								
N-nitrosopiperidine	ug/L								
N-nitrosopyrrolidine	ug/L								
O,o,o-triethyl phosphorothioate	ug/L								
O-toluidine	ug/L								
P-(dimethylamino)azobenzene	ug/L								
Parathion	ug/L								
Pentachlorobenzene	ug/L								
Pentachloronitrobenzene (pcnb)	ug/L								
Pentachlorophenol	ug/L								
Phenacetin	ug/L								
Phenanthrene	ug/L								
Phenol	ug/L								
Phorate	ug/L								
Pronamide	ug/L								
Propionitrile	ug/L								
Pyrene	ug/L								
Safrole	ug/L								
Selenium, total	ug/L	<3.34	<3.34	<4.00	<4.00	<4.00	<4.00	<4.00	
Silver, total	ug/L	<.042	<.042	<4.000	<4.000	<4.000	<4.000	<4.000	
Styrene	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	
Sulfide, total	mg/L								
Tetrachloroethylene	ug/L	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	
Thallium, total	ug/L	<.0325	<.0325	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	
Thionazin	ug/L								
Tin, total	ug/L								
Toluene	ug/L	<.15	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	
Total suspended solids	mg/L	3.87	<10.00						
Toxaphene	ug/L								
Trans-1,2-dichloroethylene	ug/L	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	
Trans-1,3-dichloropropene	ug/L	<.22	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13	<5.00	<5.00	<5.00	<5.00	<5.00	
Trichloroethylene	ug/L	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	
Trichlorofluoromethane	ug/L	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<1.00	
Turbidity, field	NTU	1.560	2.175						
Turbidity, lab	NTU	9.7	5.3						
Vanadium, total	ug/L	<.449	<.449	<20.000	<20.000	<20.000	<20.000	<20.000	
Vinyl acetate	ug/L	<.74	<.74	<5.00	<5.00	<5.00	<5.00	<5.00	
Vinyl chloride	ug/L	<.1	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	
Xylenes, total	ug/L	<.13	<.13	<2.00	<2.00	<2.00	<2.00	<2.00	
Zinc, total	ug/L	<6.95	<6.95	<8.00	<8.00	<8.00	<8.00	<8.00	

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

Table 24

Analytical Data Summary for MW-6

Constituents	4/11/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/13/2020	4/12/2021	10/6/2021	4/14/2022
Hexachlorobutadiene	<8		<8						
Hexachlorocyclopentadiene	<8		<8						
Hexachloroethane	<8		<8						
Hexachloropropene	<8		<8						
Indeno(1,2,3-cd)pyrene	<8		<8						
Iodomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isobutanol	<1		<1						
Isodrin	<8		<8						
Isophorone	<8		<8						
Isosafrole	<8		<8						
Kepone	<8		<8						
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total	<.5		<.5						
Methacrylonitrile	<1		<1						
Methapyrilene	<8		<8						
Methoxychlor	<.05		<.05						
Methyl methacrylate	<1		<1						
Methyl methanesulfonate	<8		<8						
Methyl parathion	<.4		<.4						
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene	<8		<8						
Nickel, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
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						
P-(dimethylamino)azobenzene	<8		<8						
Parathion	<.4		<.4						
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	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total	<.1		<.1						
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<4.0000	<4.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Thionazin	<.4		<.4						
Tin, total	<20		<20						
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids									
Toxaphene	<.2		<.2						
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	<8.00	<8.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

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

Table 24

Analytical Data Summary for MW-6

Constituents	10/25/2022	1/9/2023	4/3/2023	10/16/2023
Hexachlorobutadiene				
Hexachlorocyclopentadiene				
Hexachloroethane				
Hexachloropropene				
Indeno(1,2,3-cd)pyrene				
Iodomethane	<1.0		<1.0	<1.0
Isobutanol				
Isodrin				
Isophorone				
Isosafrole				
Kepone				
Lead, total	<4.0000		<4.0000	<4.0000
Mercury, total				
Methacrylonitrile				
Methapyrilene				
Methoxychlor				
Methyl methacrylate				
Methyl methanesulfonate				
Methyl parathion				
Methylene chloride	<5.00		<5.00	<5.00
Naphthalene				
Nickel, total	<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				
P-(dimethylamino)azobenzene				
Parathion				
Pentachlorobenzene				
Pentachloronitrobenzene (pcnb)				
Pentachlorophenol				
Phenacetin				
Phenanthrene				
Phenol				
Phorate				
Pronamide				
Propionitrile				
Pyrene				
Safrole				
Selenium, total	<4.00		<4.00	<4.00
Silver, total	<4.000		<4.000	<4.000
Styrene	<1.0		<1.0	<1.0
Sulfide, total				
Tetrachloroethylene	<1.00		<1.00	<1.00
Thallium, total	<2.0000		<2.0000	<2.0000
Thionazin				
Tin, total				
Toluene	<1.00		<1.00	<1.00
Total suspended solids				
Toxaphene				
Trans-1,2-dichloroethylene	<1.00		<1.00	<1.00
Trans-1,3-dichloropropene	<1.00		<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00		<5.00	<5.00
Trichloroethylene	<1.00		<1.00	<1.00
Trichlorofluoromethane	<1.00		<1.00	<1.00
Turbidity, field				
Turbidity, lab				
Vanadium, total	<20.000		<20.000	<20.000
Vinyl acetate	<5.00		<5.00	<5.00
Vinyl chloride	<1.0		<1.0	<1.0
Xylenes, total	<2.00		<2.00	<2.00
Zinc, total	<20.00		<20.00	<20.00

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

Table 25

Analytical Data Summary for MW-7

Constituents	Units	10/24/2014	4/7/2015	4/30/2015	10/21/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017
(3 4)-methylphenol	ug/L				<8				
1,1,1,2-tetrachloroethane	ug/L	<.21	<.21		<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	ug/L	<.12	<.12		<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1	<.1		<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	ug/L	<.12	<.12		<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	<.21	<.21		<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	ug/L	<.15	<.15		<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene	ug/L				<1				
1,2,3-trichloropropane	ug/L	<.19	<.19		<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene	ug/L				<8				
1,2,4-trichlorobenzene	ug/L				<1				
1,2-dibromo-3-chloropropane	ug/L	<.12	<.50		<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	<.13	<.13		<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	ug/L	<.14	<.14		<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	<.18	<.18		<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	<.87	<.87		<1.00	<1.00	<1.00	<1.00	<1.00
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	<.2	<.2		<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone	ug/L				<8				
1,4-phenylenediamine	ug/L				<8				
1-naphthylamine	ug/L				<8				
2,2-dichloropropane	ug/L				<1				
2,3,4,6-tetrachlorophenol	ug/L				<8				
2,4,5-t	ug/L				<.7				
2,4,5-tp (silvex)	ug/L				<.7				
2,4,5-trichlorophenol	ug/L				<8				
2,4,6-trichlorophenol	ug/L				<8				
2,4-d	ug/L				<2.7				
2,4-dichlorophenol	ug/L				<8				
2,4-dimethylphenol	ug/L				<8				
2,4-dinitrophenol	ug/L				<8				
2,4-dinitrotoluene	ug/L				<8				
2,6-dichlorophenol	ug/L				<8				
2,6-dinitrotoluene	ug/L				<8				
2-acetylaminofluorene	ug/L				<8				
2-butanone	ug/L	<.47	<.47		<10.00	<5.00	<5.00	<5.00	<5.00
2-chloronaphthalene	ug/L				<8				
2-chlorophenol	ug/L				<8				
2-hexanone	ug/L	<.2	<.2		<10.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene	ug/L				<8				
2-methylphenol (o-cresol)	ug/L				<8				
2-naphthylamine	ug/L				<8				
2-nitroaniline	ug/L				<8				
2-nitrophenol	ug/L				<8				
3,3´-dichlorobenzidine	ug/L				<8				
3,3'-dimethylbenzidine	ug/L				<8				
3-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	ug/L	<.22	<.22		<5.00	<5.00	<5.00	<5.00	<5.00
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	<1.79	<1.79		<20.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L			<1000	<10				
Acetophenone	ug/L				<8				
Acrolein	ug/L				<10				
Acrylonitrile	ug/L	<.53	<.53		<5.00	<5.00	<5.00	<5.00	<5.00
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 25

Analytical Data Summary for MW-7

Constituents	4/11/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021	4/14/2022
(3 4)-methylphenol						<8			
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene						<1			
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene						<8			
1,2,4-trichlorobenzene						<1			
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene						<8			
1,3,5-trinitrobenzene						<8			
1,3-dichlorobenzene						<1			
1,3-dichloropropane						<1			
1,3-dinitrobenzene						<8			
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone						<8			
1,4-phenylenediamine						<8			
1-naphthylamine						<8			
2,2-dichloropropane						<1			
2,3,4,6-tetrachlorophenol						<8			
2,4,5-t						<.5			
2,4,5-tp (silvex)						<.5			
2,4,5-trichlorophenol						<8			
2,4,6-trichlorophenol						<8			
2,4-d						<2.0			
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	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.00
2-chloronaphthalene						<8			
2-chlorophenol						<8			
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene						<8			
2-methylphenol (o-cresol)						<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	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
4-nitroaniline						<8			
4-nitrophenol						<8			
5-nitro-o-toluidine						<8			
7,12-dimethylbenz [a] anthracene						<8			
Acenaphthene						<8			
Acenaphthylene						<8			
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile						<10			
Acetophenone						<8			
Acrolein						<10			
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin						<.05			
Allyl chloride						<1			
Alpha-bhc						<.05			
Anthracene						<8			

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

Table 25

Analytical Data Summary for MW-7

Constituents	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
(3 4)-methylphenol					
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene					
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene					
1,2,4-trichlorobenzene					
1,2-dibromo-3-chloropropane	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene					
1,3,5-trinitrobenzene					
1,3-dichlorobenzene					
1,3-dichloropropane					
1,3-dinitrobenzene					
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone					
1,4-phenylenediamine					
1-naphthylamine					
2,2-dichloropropane					
2,3,4,6-tetrachlorophenol					
2,4,5-t					
2,4,5-tp (silvex)					
2,4,5-trichlorophenol					
2,4,6-trichlorophenol					
2,4-d					
2,4-dichlorophenol					
2,4-dimethylphenol					
2,4-dinitrophenol					
2,4-dinitrotoluene					
2,6-dichlorophenol					
2,6-dinitrotoluene					
2-acetylaminofluorene					
2-butanone	<10.00	<10.00	<10.00	<10.00	<10.00
2-chloronaphthalene					
2-chlorophenol					
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene					
2-methylphenol (o-cresol)					
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	<5.00	<5.00	<5.00	<5.00	<5.00
4-nitroaniline					
4-nitrophenol					
5-nitro-o-toluidine					
7,12-dimethylbenz [a] anthracene					
Acenaphthene					
Acenaphthylene					
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile					
Acetophenone					
Acrolein					
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin					
Allyl chloride					
Alpha-bhc					
Anthracene					

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

Table 25

Analytical Data Summary for MW-7

Constituents	Units	10/24/2014	4/7/2015	4/30/2015	10/21/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017
Antimony, total	ug/L	<.161	<.161		<2.000	<2.000	<2.000	<2.000	<2.000
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	<.945	<.945		<4.000	<4.000	<4.000	<4.000	<4.000
Azobenzene	ug/L				<8				
Barium, total	ug/L	96.9	88.6		77.1	58.6	54.0	47.2	47.9
Benzene	ug/L	<.11	<.11		<1.00	<1.00	<1.00	<1.00	<1.00
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	<.039	<.039		<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc	ug/L				<.05				
Bis (2-chloroethoxy) methane	ug/L				<8				
Bis(2-chloroethyl) ether	ug/L				<8				
Bis(2-ethylhexyl) phthalate	ug/L				<8				
Bis[2-chloroisopropyl]ether	ug/L				<8				
Bromochloromethane	ug/L	<.12	<.12		<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	<.12	<.12		<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	ug/L	<.14	<.14		<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	ug/L	<.22	<.22		<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate	ug/L				<8				
Cadmium, total	ug/L	<.112	<.112		<.800	<.800	<.800	<.800	<.800
Carbon disulfide	ug/L	1.54	<.15		<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	<.24	<.24		<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane	ug/L				<.1				
Chloride	mg/L								
Chlorobenzene	ug/L	<.19	<.19		<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate	ug/L				<8				
Chloroethane	ug/L	<.15	<.15		<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	ug/L	<.28	<.28		<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.31	<.31		<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene	ug/L				<1				
Chromium, total	ug/L	<1.24	<1.24		<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene	ug/L				<8				
Cis-1,2-dichloroethylene	ug/L	<.13	<.13		<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	ug/L	<.15	<.15		<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	ug/L	<.2000	<.0528		<.8000	<.8000	<.8000	<.8000	<.8000
COD, total	mg/L								
Copper, total	ug/L	8.210	<.485		<4.000	<4.000	<4.000	<4.000	<4.000
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	<.2	<.2		<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	<.18	<.18		<1.00	<1.00	<1.00	<1.00	<1.00
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				<.7				
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			<.0076	<.0500				
Ethyl methacrylate	ug/L				<10				
Ethyl methanesulfonate	ug/L				<8				
Ethylbenzene	ug/L	<.21	<.21		<1.00	<1.00	<1.00	<1.00	<1.00
Famphur	ug/L				<.4				
Fluoranthene	ug/L				<8				
Fluorene	ug/L				<8				
Gamma-bhc [lindane]	ug/L				<.05				
Heptachlor	ug/L				<.05				

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

Table 25

Analytical Data Summary for MW-7

Constituents	4/11/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021	4/14/2022
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arochlor 1016						<.1			
Arochlor 1221						<.2			
Arochlor 1232						<.2			
Arochlor 1242						<.2			
Arochlor 1248						<.2			
Arochlor 1254						<.1			
Arochlor 1260						<.1			
Arsenic, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Azobenzene						<8			
Barium, total	44.6	41.9	40.7	65.7	43.3	36.9	33.3	35.3	34.7
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc						<.05			
Bis (2-chloroethoxy) methane						<8			
Bis(2-chloroethyl) ether						<8			
Bis(2-ethylhexyl) phthalate						<6			
Bis[2-chloroisopropyl]ether						<8			
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate						<8			
Cadmium, total	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane						<.1			
Chloride									
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate						<8			
Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene						<1			
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene						<8			
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	<.8000	<.8000	<.8000	<.8000	<.4000	<.4000	<.4000	<.4000	<.4000
COD, total									
Copper, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Cyanide, total						<.005			
Delta-bhc						<.05			
Diallate						<8			
Dibenzo(a,h)anthracene						<8			
Dibenzofuran						<8			
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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						<.0500			
Ethyl methacrylate						<10			
Ethyl methanesulfonate						<8			
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur						<.4			
Fluoranthene						<8			
Fluorene						<8			
Gamma-bhc [lindane]						<.05			
Heptachlor						<.05			

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

Table 25

Analytical Data Summary for MW-7

Constituents	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000
Arochlor 1016					
Arochlor 1221					
Arochlor 1232					
Arochlor 1242					
Arochlor 1248					
Arochlor 1254					
Arochlor 1260					
Arsenic, total	<4.000	<4.000	<4.000	<4.000	<4.000
Azobenzene					
Barium, total	33.9	36.9	36.0	39.5	59.7
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00
Benzo(a)anthracene					
Benzo(a)pyrene					
Benzo(b)fluoranthene					
Benzo(g,h,i)perylene					
Benzo(k)fluoranthene					
Benzyl alcohol					
Beryllium, total	<4.000	<4.000	<4.000	<4.000	<4.000
Beta-bhc					
Bis (2-chloroethoxy) methane					
Bis(2-chloroethyl) ether					
Bis(2-ethylhexyl) phthalate					
Bis[2-chloroisopropyl]ether					
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate					
Cadmium, total	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane					
Chloride			14.9		
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate					
Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene					
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene					
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	1.0000	<.4000	<.4000	<.4000	.8000
COD, total			<20		
Copper, total	<4.000	<4.000	<4.000	<4.000	<4.000
Cyanide, total					
Delta-bhc					
Diallate					
Dibenzo(a,h)anthracene					
Dibenzofuran					
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
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	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur					
Fluoranthene					
Fluorene					
Gamma-bhc [lindane]					
Heptachlor					

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

Table 25

Analytical Data Summary for MW-7

Constituents	Units	10/24/2014	4/7/2015	4/30/2015	10/21/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017
Heptachlor epoxide	ug/L				<.05				
Hexachlorobenzene	ug/L				<.05				
Hexachlorobutadiene	ug/L				<8				
Hexachlorocyclopentadiene	ug/L				<8				
Hexachloroethane	ug/L				<8				
Hexachloropropene	ug/L				<8				
Indeno(1,2,3-cd)pyrene	ug/L				<8				
Iodomethane	ug/L	<.8	<.8		<1.0	<1.0	<1.0	<1.0	<1.0
Isobutanol	mg/L				<1				
Isodrin	ug/L				<8				
Isophorone	ug/L				<8				
Isosafrole	ug/L				<8				
Kepone	ug/L				<8				
Lead, total	ug/L	<.0967	<.0967		<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total	ug/L				<.5				
Methacrylonitrile	ug/L				<1				
Methapyrilene	ug/L				<8				
Methoxychlor	ug/L				<.05				
Methyl methacrylate	ug/L				<1				
Methyl methanesulfonate	ug/L				<8				
Methyl parathion	ug/L				<.4				
Methylene chloride	ug/L	<.17	<1.00		<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene	ug/L				<8				
Nickel, total	ug/L	<10.0	<10.0		<4.0	<4.0	<4.0	4.7	<4.0
Nitrobenzene	ug/L				<8				
Nitrogen, Ammonia	mg/L								
N-nitrosodiethylamine	ug/L				<8				
N-nitrosodimethylamine	ug/L				<8				
N-nitrosodi-n-butylamine	ug/L				<8				
N-nitroso-di-n-propylamine	ug/L				<8				
N-nitrosodiphenylamine	ug/L				<8				
N-nitrosomethylethylamine	ug/L				<8				
N-nitrosopiperidine	ug/L				<8				
N-nitrosopyrrolidine	ug/L				<8				
O,o,o-triethyl phosphorothioate	ug/L				<.4				
O-toluidine	ug/L				<8				
P-(dimethylamino)azobenzene	ug/L				<8				
Parathion	ug/L				<.4				
Pentachlorobenzene	ug/L				<8				
Pentachloronitrobenzene (pcnb)	ug/L				<8				
Pentachlorophenol	ug/L				<8				
Phenacetin	ug/L				<8				
Phenanthrene	ug/L				<8				
Phenol	ug/L				<8				
Phorate	ug/L				<.4				
Pronamide	ug/L				<8				
Propionitrile	ug/L				<10				
Pyrene	ug/L				<8				
Safrole	ug/L				<8				
Selenium, total	ug/L	<3.34	<3.34		<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	ug/L	<.042	<.042		<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	ug/L	<.1	<.1		<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total	mg/L				<.1				
Tetrachloroethylene	ug/L	<.18	<.18		<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	ug/L	<.0325	<.0325		<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Thionazin	ug/L				<.4				
Tin, total	ug/L				<20				
Toluene	ug/L	<.15	<.15		<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids	mg/L	<1.41	<3.75						
Toxaphene	ug/L				<.2				
Trans-1,2-dichloroethylene	ug/L	<.21	<.21		<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	ug/L	<.22	<.22		<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13	<.13		<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	ug/L	<.19	<.19		<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.17	<.17		<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field	NTU	2.993	.250						
Turbidity, lab	NTU	1.0	<.7						
Vanadium, total	ug/L	<.449	<.449		<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	ug/L	<.74	<.74		<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	ug/L	<.1	<.1		<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	ug/L	<.13	<.13		<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	ug/L	39.5	51.5		30.9	94.1	33.2	65.5	17.5

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

Table 25

Analytical Data Summary for MW-7

Constituents	4/11/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021	4/14/2022
Heptachlor epoxide						<.05			
Hexachlorobenzene						<.05			
Hexachlorobutadiene						<8			
Hexachlorocyclopentadiene						<8			
Hexachloroethane						<8			
Hexachloropropene						<8			
Indeno(1,2,3-cd)pyrene						<8			
Iodomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
Isobutanol						<1			
Isodrin						<8			
Isophorone						<8			
Isosafrole						<8			
Kepone						<8			
Lead, total	<4.0000	8.4000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total						<.5			
Methacrylonitrile						<1			
Methapyrilene						<8			
Methoxychlor						<.05			
Methyl methacrylate						<1			
Methyl methanesulfonate						<8			
Methyl parathion						<.4			
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene						<8			
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Nitrobenzene						<8			
Nitrogen, Ammonia									
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			
P-(dimethylamino)azobenzene						<8			
Parathion						<.4			
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	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total						<.1			
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<4.0000	<4.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Thionazin						<.4			
Tin, total						<20			
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids									
Toxaphene						<.2			
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	64.8	216.0	60.4	60.8	45.9	34.2	<20.0	22.3	23.4

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

Table 25

Analytical Data Summary for MW-7

Constituents	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
Heptachlor epoxide					
Hexachlorobenzene					
Hexachlorobutadiene					
Hexachlorocyclopentadiene					
Hexachloroethane					
Hexachloropropene					
Indeno(1,2,3-cd)pyrene					
Iodomethane	<1.0	<1.0	<1.0	<1.0	<1.0
Isobutanol					
Isodrin					
Isophorone					
Isosafrole					
Kepone					
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total					
Methacrylonitrile					
Methapyrilene					
Methoxychlor					
Methyl methacrylate					
Methyl methanesulfonate					
Methyl parathion					
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene					
Nickel, total	<4.0	<4.0	<4.0	<4.0	6.4
Nitrobenzene					
Nitrogen, Ammonia			<.1		
N-nitrosodiethylamine					
N-nitrosodimethylamine					
N-nitrosodi-n-butylamine					
N-nitroso-di-n-propylamine					
N-nitrosodiphenylamine					
N-nitrosomethylethylamine					
N-nitrosopiperidine					
N-nitrosopyrrolidine					
O,o,o-triethyl phosphorothioate					
O-toluidine					
P-(dimethylamino)azobenzene					
Parathion					
Pentachlorobenzene					
Pentachloronitrobenzene (pcnb)					
Pentachlorophenol					
Phenacetin					
Phenanthrene					
Phenol					
Phorate					
Pronamide					
Propionitrile					
Pyrene					
Safrole					
Selenium, total	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total					
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<2.0000	<2.0000	<2.0000	<2.0000	<2.0000
Thionazin					
Tin, total					
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids					
Toxaphene					
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field					
Turbidity, lab					
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	23.7	27.5	<20.0	<20.0	39.5

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

Table 26

Analytical Data Summary for MW-8

Constituents	Units	10/27/2014	1/12/2015	4/28/2015	10/20/2015	2/25/2016	4/11/2016	10/12/2016	4/13/2017
1,1,1,2-tetrachloroethane	ug/L	<.21		<.21	<1.00			<1.00	<1.00
1,1,1-trichloroethane	ug/L	<.12		<.12	<1.00		<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	ug/L	<.1		<.1	<1.0		<1.0	<1.0	<1.0
1,1,2-trichloroethane	ug/L	<.12		<.12	<1.00		<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	<.21		<.21	<1.00		<1.00	<1.00	<1.00
1,1-dichloroethylene	ug/L	<.15		<.15	<1.00		<1.00	<1.00	<1.00
1,2,3-trichloropropane	ug/L	<.19		<.19	<1.00		<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	ug/L	<.12		<.50	<1.00		<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	<.13		<.13	<1.00		<1.00	<1.00	<1.00
1,2-dichlorobenzene	ug/L	<.14		<.14	<1.00		<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	<.18		<.18	<1.00		<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	<.87		<.87	<1.00		<1.00	<1.00	<1.00
1,4-dichlorobenzene	ug/L	<.2		<.2	<1.0		<1.0	<1.0	<1.0
2-butanone	ug/L	<.47		<.47	<5.00		<5.00	<5.00	<5.00
2-hexanone	ug/L	<.2		<.2	<5.0		<5.0	<5.0	<5.0
4-methyl-2-pentanone	ug/L	<.22		<.22	<5.00		<5.00	<5.00	<5.00
Acetone	ug/L	<1.79		<1.79	<10.00		<10.00	<10.00	<10.00
Acrylonitrile	ug/L	<.53		<.53	<5.00		<5.00	<5.00	<5.00
Antimony, total	ug/L	<.161		<.161	<2.000		<2.000	3.500	<2.000
Arsenic, total	ug/L	<2.0		<2.0	5.1	<4.0	<4.0	<4.0	<4.0
Barium, total	ug/L	77.3		66.0	82.8		48.8	51.7	23.6
Benzene	ug/L	<.11		<.11	<1.00		<1.00	<1.00	<1.00
Beryllium, total	ug/L	<.039		<.039	<4.000		<4.000	<4.000	<4.000
Bromochloromethane	ug/L	<.12		<.12	<1.00		<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	<.12		<.12	<1.00		<1.00	<1.00	<1.00
Bromoform	ug/L	<.14		<.14	<1.00		<1.00	<1.00	<1.00
Bromomethane	ug/L	<.22		<.22	<1.00		<1.00	<1.00	<1.00
Cadmium, dissolved	ug/L			<.112					
Cadmium, total	ug/L	<.112			<.800		<.800	<.800	<.800
Carbon disulfide	ug/L	1.03		<.15	<1.00		<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	<.24		<.24	<1.00		<1.00	<1.00	<1.00
Chlorobenzene	ug/L	<.19		<.19	<1.00		<1.00	<1.00	<1.00
Chloroethane	ug/L	<.15		<.15	<1.00		<1.00	<1.00	<1.00
Chloroform	ug/L	<.28		<.28	<1.00		<1.00	<1.00	<1.00
Chloromethane	ug/L	<.31		<.31	<1.00		<1.00	<1.00	<1.00
Chromium, total	ug/L	<1.24		<1.24	<8.00		<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	ug/L	<.13		<.13	<1.00		<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	ug/L	<.15		<.15	<1.00		<1.00	<1.00	<1.00
Cobalt, total	ug/L	<1.0		<1.0	<.8		<.8	<.8	<.8
Copper, total	ug/L	3.940		<.485	<4.000		<4.000	<4.000	<4.000
Dibromochloromethane	ug/L	<.2		<.2	<1.0		<1.0	<1.0	<1.0
Dibromomethane	ug/L	<.18		<.18	<1.00		<1.00	<1.00	<1.00
Ethylbenzene	ug/L	<.21		<.21	<1.00		<1.00	<1.00	<1.00
Iodomethane	ug/L	<.8		<.8	<1.0		<1.0	<1.0	<1.0
Lead, total	ug/L	<1.0000		<.0967	<4.0000		<4.0000	<4.0000	<4.0000
Methylene chloride	ug/L	<.17		<1.00	<5.00		<5.00	<5.00	<5.00
Nickel, total	ug/L	<2.0		<2.0	<4.0		<4.0	<4.0	<4.0
Selenium, total	ug/L	<3.34		<3.34	<4.00		<4.00	<4.00	<4.00
Silver, total	ug/L	<.042		<.042	<4.000		<4.000	<4.000	<4.000
Styrene	ug/L	<.1		<.1	<1.0		<1.0	<1.0	<1.0
Tetrachloroethylene	ug/L	<.18		<.18	<1.00		<1.00	<1.00	<1.00
Thallium, total	ug/L	<.0325		<.0325	<4.0000		<4.0000	<4.0000	<4.0000
Toluene	ug/L	<.15		<.15	<1.00		<1.00	<1.00	<1.00
Total suspended solids	mg/L	3.14	5.33	3.51					
Trans-1,2-dichloroethylene	ug/L	<.21		<.21	<1.00		<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	ug/L	<.22		<.22	<1.00		<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	ug/L	<.13		<.13	<5.00		<5.00	<5.00	<5.00
Trichloroethylene	ug/L	<.19		<.19	<1.00		<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.17		<.17	<1.00		<1.00	<1.00	<1.00
Turbidity, field	NTU	4.382	4.764	2.401					
Turbidity, lab	NTU	8.4	8.4	5.0					
Vanadium, total	ug/L	<.449		<.449	<20.000		<20.000	<20.000	<20.000
Vinyl acetate	ug/L	<.74		<.74	<5.00		<5.00	<5.00	<5.00
Vinyl chloride	ug/L	<.1		<.1	<1.0		<1.0	<1.0	<1.0
Xylenes, total	ug/L	<.13		<.13	<2.00		<2.00	<2.00	<2.00
Zinc, total	ug/L	78.00	<6.95	<6.95	25.60		<8.00	<8.00	<8.00

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

Table 26

Analytical Data Summary for MW-8

Constituents	10/25/2017	1/17/2018	4/11/2018	7/2/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	7/1/2020
1,1,1,2-tetrachloroethane	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
1,1,1-trichloroethane	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
1,1,2,2-tetrachloroethane	<1.0		<1.0		<1.0	<1.0	<1.0	<1.0	
1,1,2-trichloroethane	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
1,1-dichloroethane	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
1,1-dichloroethylene	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
1,2,3-trichloropropane	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
1,2-dibromo-3-chloropropane	<1.00		<1.00		<1.00	<1.00	<1.00	<5.00	
1,2-dibromoethane	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
1,2-dichlorobenzene	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
1,2-dichloroethane	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
1,2-dichloropropane	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
1,4-dichlorobenzene	<1.0		<1.0		<1.0	<1.0	<1.0	<1.0	
2-butanone	<5.00		<5.00		<5.00	<5.00	<5.00	<5.00	
2-hexanone	<5.0		<5.0		<5.0	<5.0	<5.0	<5.0	
4-methyl-2-pentanone	<5.00		<5.00		<5.00	<5.00	<5.00	<5.00	
Acetone	<10.00		<10.00		<10.00	<10.00	<10.00	<10.00	
Acrylonitrile	<5.00		<5.00		<5.00	<5.00	<5.00	<5.00	
Antimony, total	<2.000		<2.000		<2.000	<2.000	<2.000	<2.000	
Arsenic, total	8.6	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	
Barium, total	115.0		12.0		52.3	22.7	57.0	34.6	
Benzene	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Beryllium, total	<4.000		<4.000		<4.000	<4.000	<4.000	<4.000	
Bromochloromethane	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Bromodichloromethane	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Bromoform	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Bromomethane	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Cadmium, dissolved									
Cadmium, total	<.800		<.800		<.800	<.800	<.800	<.800	
Carbon disulfide	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Carbon tetrachloride	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Chlorobenzene	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Chloroethane	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Chloroform	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Chloromethane	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Chromium, total	29.60	<8.00	<8.00		<8.00	<8.00	<8.00	<8.00	
Cis-1,2-dichloroethylene	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Cis-1,3-dichloropropene	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Cobalt, total	9.2	<.8	<.8		<.8	<.8	<.8	1.4	
Copper, total	22.800	<4.000	9.600	<4.000	<4.000	<4.000	<4.000	4.800	<4.000
Dibromochloromethane	<1.0		<1.0		<1.0	<1.0	<1.0	<1.0	
Dibromomethane	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Ethylbenzene	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Iodomethane	<1.0		<1.0		<1.0	<1.0	<1.0	<1.0	
Lead, total	95.5000	<4.0000	<4.0000		<4.0000	<4.0000	<4.0000	<4.0000	
Methylene chloride	<5.00		<5.00		<5.00	<5.00	<5.00	<5.00	
Nickel, total	29.7	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	
Selenium, total	<4.00		<4.00		<4.00	<4.00	<4.00	<4.00	
Silver, total	<4.000		<4.000		<4.000	<4.000	<4.000	<4.000	
Styrene	<1.0		<1.0		<1.0	<1.0	<1.0	<1.0	
Tetrachloroethylene	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Thallium, total	<4.0000		<4.0000		<4.0000	<2.0000	<2.0000	<2.0000	
Toluene	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Total suspended solids									
Trans-1,2-dichloroethylene	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Trans-1,3-dichloropropene	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Trans-1,4-dichloro-2-butene	<5.00		<5.00		<5.00	<5.00	<5.00	<5.00	
Trichloroethylene	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Trichlorofluoromethane	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	
Turbidity, field									
Turbidity, lab									
Vanadium, total	50.500	<20.000	<20.000		<20.000	<20.000	<20.000	<20.000	
Vinyl acetate	<5.00		<5.00		<5.00	<5.00	<5.00	<5.00	
Vinyl chloride	<1.0		<1.0		<1.0	<1.0	<1.0	<1.0	
Xylenes, total	<2.00		<2.00		<2.00	<2.00	<2.00	<2.00	
Zinc, total	73.20	<8.00	8.90		<8.00	<20.00	<20.00	<20.00	

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

Table 26

Analytical Data Summary for MW-8

Constituents	10/13/2020	4/12/2021	10/6/2021	4/14/2022	7/13/2022	10/25/2022	4/3/2023	10/16/2023
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
1,1-dichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
1,2-dibromo-3-chloropropane	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0
2-butanone	<5.00	<5.00	<5.00	<10.00		<10.00	<10.00	<10.00
2-hexanone	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0
4-methyl-2-pentanone	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00
Acetone	<10.00	<10.00	<10.00	<10.00		<10.00	<10.00	<10.00
Acrylonitrile	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00
Antimony, total	<2.000	<2.000	<2.000	<2.000		<2.000	<2.000	<2.000
Arsenic, total	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0
Barium, total	38.8	39.0	42.7	56.2		48.6	46.6	45.0
Benzene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Beryllium, total	<4.000	<4.000	<4.000	<4.000		<4.000	<4.000	<4.000
Bromochloromethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Cadmium, dissolved								
Cadmium, total	<.800	<.800	<.800	<.800		<.800	<.800	<.800
Carbon disulfide	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Chlorobenzene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Chloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Chromium, total	<8.00	<8.00	<8.00	<8.00		<8.00	<8.00	<8.00
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Cobalt, total	<.4	<.4	<.4	2.1	<.4	<.4	<.4	<.4
Copper, total	<4.000	<4.000	<4.000	6.800		<4.000	<4.000	<4.000
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Ethylbenzene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Iodomethane	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000		<4.0000	<4.0000	<4.0000
Methylene chloride	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00
Nickel, total	<4.0	<4.0	<4.0	6.0	<4.0	<4.0	<4.0	<4.0
Selenium, total	<4.00	<4.00	<4.00	<4.00		<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000		<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Thallium, total	<2.0000	<2.0000	<2.0000	<2.0000		<2.0000	<2.0000	<2.0000
Toluene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Total suspended solids								
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
Turbidity, field								
Turbidity, lab								
Vanadium, total	<20.000	<20.000	<20.000	<20.000		<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00		<2.00	<2.00	<2.00
Zinc, total	<20.00	<20.00	<20.00	114.00	<20.00	<20.00	<20.00	<20.00

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

Table 27

Analytical Data Summary for MW-9

Constituents	Units	10/24/2014	10/20/2015	4/11/2016	10/12/2016	4/12/2017	10/25/2017	4/11/2018	7/2/2018
(3 4)-methylphenol	ug/L					<8		<8	
1,1,1,2-tetrachloroethane	ug/L	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
1,1,1-trichloroethane	ug/L	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
1,1,2,2-tetrachloroethane	ug/L	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,2-trichloroethane	ug/L	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	
1,1-dichloroethylene	ug/L	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
1,1-dichloropropene	ug/L					<1		<1	
1,2,3-trichloropropane	ug/L	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2,4,5-tetrachlorobenzene	ug/L					<8		<8	
1,2,4-trichlorobenzene	ug/L					<1		<1	
1,2-dibromo-3-chloropropane	ug/L	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-dibromoethane	ug/L	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-dichlorobenzene	ug/L	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-dichloroethane	ug/L	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-dichloropropane	ug/L	<.87	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-dinitrobenzene	ug/L					<8		<8	
1,3,5-trinitrobenzene	ug/L					<8		<8	
1,3-dichlorobenzene	ug/L					<1		<1	
1,3-dichloropropane	ug/L					<1		<1	
1,3-dinitrobenzene	ug/L					<8		<8	
1,4-dichlorobenzene	ug/L	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,4-naphthoquinone	ug/L					<8		<8	
1,4-phenylenediamine	ug/L					<8		<8	
1-naphthylamine	ug/L					<8		<8	
2,2-dichloropropane	ug/L					<1		<1	
2,3,4,6-tetrachlorophenol	ug/L					<8		<8	
2,4,5-t	ug/L					<.5		<.5	
2,4,5-tp (silvex)	ug/L					<.5		<.5	
2,4,5-trichlorophenol	ug/L					<8		<8	
2,4,6-trichlorophenol	ug/L					<8		<8	
2,4-d	ug/L					<2		<2	
2,4-dichlorophenol	ug/L					<8		<8	
2,4-dimethylphenol	ug/L					<8		<8	
2,4-dinitrophenol	ug/L					<8		<8	
2,4-dinitrotoluene	ug/L					<8		<8	
2,6-dichlorophenol	ug/L					<8		<8	
2,6-dinitrotoluene	ug/L					<8		<8	
2-acetylaminofluorene	ug/L					<8		<8	
2-butanone	ug/L	<.47	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	
2-chloronaphthalene	ug/L					<8		<8	
2-chlorophenol	ug/L					<8		<8	
2-hexanone	ug/L	<.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
2-methylnaphthalene	ug/L					<8		<8	
2-methylphenol (o-cresol)	ug/L					<8		<8	
2-naphthylamine	ug/L					<8		<8	
2-nitroaniline	ug/L					<8		<8	
2-nitrophenol	ug/L					<8		<8	
3,3´-dichlorobenzidine	ug/L					<8		<8	
3,3'-dimethylbenzidine	ug/L					<8		<8	
3-methylcholanthrene	ug/L					<8		<8	
3-nitroaniline	ug/L					<8		<8	
4,4`-ddd	ug/L					<.05		<.05	
4,4`-dde	ug/L					<.05		<.05	
4,4`-ddt	ug/L					<.05		<.05	
4,6-dinitro-2-methylphenol	ug/L					<8		<8	
4-aminobiphenyl	ug/L					<8		<8	
4-bromophenyl phenyl ether	ug/L					<8		<8	
4-chloro-3-methylphenol	ug/L					<8		<8	
4-chloroaniline	ug/L					<8		<8	
4-chlorophenyl phenyl ether	ug/L					<8		<8	
4-methyl-2-pentanone	ug/L	<.22	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	
4-nitroaniline	ug/L					<8		<8	
4-nitrophenol	ug/L					<8		<8	
5-nitro-o-toluidine	ug/L					<8		<8	
7,12-dimethylbenz [a] anthracene	ug/L					<8		<8	
Acenaphthene	ug/L					<8		<8	
Acenaphthylene	ug/L					<8		<8	
Acetone	ug/L	<1.79	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	
Acetonitrile	ug/L					<10		<10	
Acetophenone	ug/L					<8		<8	
Acrolein	ug/L					<10		<10	
Acrylonitrile	ug/L	<.53	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	
Aldrin	ug/L					<.05		<.05	
Allyl chloride	ug/L					<1		<1	
Alpha-bhc	ug/L					<.05		<.05	
Anthracene	ug/L					<8		<8	

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

Table 27

Analytical Data Summary for MW-9

Constituents	10/16/2018	4/18/2019	10/16/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021	4/15/2022	10/25/2022
(3 4)-methylphenol									
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene									
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene									
1,2,4-trichlorobenzene									
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene									
1,3,5-trinitrobenzene									
1,3-dichlorobenzene									
1,3-dichloropropane									
1,3-dinitrobenzene									
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone									
1,4-phenylenediamine									
1-naphthylamine									
2,2-dichloropropane									
2,3,4,6-tetrachlorophenol									
2,4,5-t									
2,4,5-tp (silvex)									
2,4,5-trichlorophenol									
2,4,6-trichlorophenol									
2,4-d									
2,4-dichlorophenol									
2,4-dimethylphenol									
2,4-dinitrophenol									
2,4-dinitrotoluene									
2,6-dichlorophenol									
2,6-dinitrotoluene									
2-acetylaminofluorene									
2-butanone	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<10.00	<10.00
2-chloronaphthalene									
2-chlorophenol									
2-hexanone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene									
2-methylphenol (o-cresol)									
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	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
4-nitroaniline									
4-nitrophenol									
5-nitro-o-toluidine									
7,12-dimethylbenz [a] anthracene									
Acenaphthene									
Acenaphthylene									
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin									
Allyl chloride									
Alpha-bhc									
Anthracene									

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

Table 27

Analytical Data Summary for MW-9

Constituents	4/3/2023	10/16/2023	4/22/2024	10/7/2024
(3 4)-methylphenol	<8			
1,1,1,2-tetrachloroethane	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethane	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	<1	<1	<1	<1
1,1-dichloroethylene	<1.00	<1.00	<1.00	<1.00
1,1-dichloropropene	<1			
1,2,3-trichloropropane	<1.00	<1.00	<1.00	<1.00
1,2,4,5-tetrachlorobenzene	<8			
1,2,4-trichlorobenzene	<1			
1,2-dibromo-3-chloropropane	<1.00	<5.00	<5.00	<5.00
1,2-dibromoethane	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	<1.00	<1.00	<1.00	<1.00
1,2-dinitrobenzene	<8			
1,3,5-trinitrobenzene	<8			
1,3-dichlorobenzene	<1			
1,3-dichloropropane	<1			
1,3-dinitrobenzene	<8			
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0
1,4-naphthoquinone	<8			
1,4-phenylenediamine	<8			
1-naphthylamine	<8			
2,2-dichloropropane	<1			
2,3,4,6-tetrachlorophenol	<8			
2,4,5-t	<.5			
2,4,5-tp (silvex)	<.5			
2,4,5-trichlorophenol	<8			
2,4,6-trichlorophenol	<8			
2,4-d	<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	<5.00	<10.00	<10.00	<10.00
2-chloronaphthalene	<8			
2-chlorophenol	<8			
2-hexanone	<5.0	<5.0	<5.0	<5.0
2-methylnaphthalene	<8			
2-methylphenol (o-cresol)	<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	<5.00	<5.00	<5.00	<5.00
4-nitroaniline	<8			
4-nitrophenol	<8			
5-nitro-o-toluidine	<8			
7,12-dimethylbenz [a] anthracene	<8			
Acenaphthene	<8			
Acenaphthylene	<8			
Acetone	<10.00	<10.00	<10.00	<10.00
Acetonitrile	<10			
Acetophenone	<8			
Acrolein	<10			
Acrylonitrile	<5.00	<5.00	<5.00	<5.00
Aldrin	<.05			
Allyl chloride	<1			
Alpha-bhc	<.05			
Anthracene	<8			

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

Table 27

Analytical Data Summary for MW-9

Constituents	Units	10/24/2014	10/20/2015	4/11/2016	10/12/2016	4/12/2017	10/25/2017	4/11/2018	7/2/2018
Antimony, total	ug/L	<.161	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	
Arochlor 1016	ug/L					<.1		<.1	
Arochlor 1221	ug/L					<.2		<.2	
Arochlor 1232	ug/L					<.2		<.2	
Arochlor 1242	ug/L					<.2		<.2	
Arochlor 1248	ug/L					<.2		<.2	
Arochlor 1254	ug/L					<.1		<.1	
Arochlor 1260	ug/L					<.1		<.1	
Arsenic, total	ug/L	3.34	<4.00	31.90	<4.00	<4.00	<4.00	4.10	
Azobenzene	ug/L					<8		<8	
Barium, total	ug/L	435	389	608	296	346	304	303	
Benzene	ug/L	<.11	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Benzo(a)anthracene	ug/L					<8		<8	
Benzo(a)pyrene	ug/L					<8		<8	
Benzo(b)fluoranthene	ug/L					<8		<8	
Benzo(g,h,i)perylene	ug/L					<8		<8	
Benzo(k)fluoranthene	ug/L					<8		<8	
Benzyl alcohol	ug/L					<8		<8	
Beryllium, total	ug/L	<1	<4	<4	<4	<4	<4	<4	
Beta-bhc	ug/L					<.05		<.05	
Bis (2-chloroethoxy) methane	ug/L					<8		<8	
Bis(2-chloroethyl) ether	ug/L					<8		<8	
Bis(2-ethylhexyl) phthalate	ug/L					<6		6	<6
Bis[2-chloroisopropyl]ether	ug/L					<8		<8	
Bromochloromethane	ug/L	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Bromodichloromethane	ug/L	<.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Bromoform	ug/L	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Bromomethane	ug/L	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Butyl benzyl phthalate	ug/L					<8		<8	
Cadmium, total	ug/L	<.5	<.8	<.8	<.8	<.8	<.8	<.8	
Carbon disulfide	ug/L	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Carbon tetrachloride	ug/L	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Chlordane	ug/L					<.1		<.1	
Chloride	mg/L								
Chlorobenzene	ug/L	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Chlorobenzilate	ug/L					<8		<8	
Chloroethane	ug/L	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Chloroform	ug/L	<.28	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Chloromethane	ug/L	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Chloroprene	ug/L					<1		<1	
Chromium, total	ug/L	<1.24	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	
Chrysene	ug/L					<8		<8	
Cis-1,2-dichloroethylene	ug/L	<.13	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Cis-1,3-dichloropropene	ug/L	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Cobalt, total	ug/L	1.65	.90	1.30	<.80	1.10	<.80	1.00	
COD, total	mg/L								
Copper, total	ug/L	<10.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Cyanide, total	mg/L					<.005		<.005	
Delta-bhc	ug/L					<.05		<.05	
Diallate	ug/L					<8		<8	
Dibenzo(a,h)anthracene	ug/L					<8		<8	
Dibenzofuran	ug/L					<8		<8	
Dibromochloromethane	ug/L	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Dibromomethane	ug/L	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Dichlorodifluoromethane	ug/L					<1		<1	
Dieldrin	ug/L					<.05		<.05	
Diethyl phthalate	ug/L					<8		<8	
Dimethoate	ug/L					<.4		<.4	
Dimethylphthalate	ug/L					<8		<8	
Di-n-butyl phthalate	ug/L					<8		<8	
Di-n-octyl phthalate	ug/L					<8		<8	
Dinoseb	ug/L					<.5		<.5	
Diphenylamine	ug/L					<8		<8	
Disulfoton	ug/L					<.4		<.4	
Endosulfan i	ug/L					<.05		<.05	
Endosulfan ii	ug/L					<.05		<.05	
Endosulfan sulfate	ug/L					<.05		<.05	
Endrin	ug/L					<.05		<.05	
Endrin aldehyde	ug/L					<.05		<.05	
Ethyl methacrylate	ug/L					<10		<10	
Ethyl methanesulfonate	ug/L					<8		<8	
Ethylbenzene	ug/L	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Famphur	ug/L					<.4		<.4	
Fluoranthene	ug/L					<8		<8	
Fluorene	ug/L					<8		<8	
Gamma-bhc [lindane]	ug/L					<.05		<.05	
Heptachlor	ug/L					<.05		<.05	

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

Table 27

Analytical Data Summary for MW-9

Constituents	10/16/2018	4/18/2019	10/16/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021	4/15/2022	10/25/2022
Antimony, total	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arochlor 1016									
Arochlor 1221									
Arochlor 1232									
Arochlor 1242									
Arochlor 1248									
Arochlor 1254									
Arochlor 1260									
Arsenic, total	<4.00	14.10	<4.00	16.80	<4.00	11.80	<4.00	10.70	5.10
Azobenzene									
Barium, total	605	432	270	474	281	369	285	379	353
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Benzo(a)anthracene									
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(g,h,i)perylene									
Benzo(k)fluoranthene									
Benzyl alcohol									
Beryllium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc									
Bis (2-chloroethoxy) methane									
Bis(2-chloroethyl) ether									
Bis(2-ethylhexyl) phthalate	<6	<6	12	<6	<6	6	<6	<6	6
Bis[2-chloroisopropyl]ether									
Bromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate									
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlordane									
Chloride									
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate									
Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroprene									
Chromium, total	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
Chrysene									
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cobalt, total	<.80	.90	<.80	.90	.50	1.00	.60	1.50	.70
COD, total									
Copper, total	4.9	<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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
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	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur									
Fluoranthene									
Fluorene									
Gamma-bhc [lindane]									
Heptachlor									

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

Table 27

Analytical Data Summary for MW-9

Constituents	4/3/2023	10/16/2023	4/22/2024	10/7/2024
Antimony, total	<2.000	<2.000	<2.000	<2.000
Arochlor 1016	<.1			
Arochlor 1221	<.2			
Arochlor 1232	<.2			
Arochlor 1242	<.2			
Arochlor 1248	<.2			
Arochlor 1254	<.1			
Arochlor 1260	<.1			
Arsenic, total	4.50	6.10	<4.00	5.10
Azobenzene	<8			
Barium, total	334	435	394	519
Benzene	<1.00	<1.00	<1.00	<1.00
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
Beta-bhc	<.05			
Bis (2-chloroethoxy) methane	<8			
Bis(2-chloroethyl) ether	<8			
Bis(2-ethylhexyl) phthalate	<6			
Bis[2-chloroisopropyl]ether	<8			
Bromochloromethane	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	<1.00	<1.00	<1.00	<1.00
Bromoform	<1.00	<1.00	<1.00	<1.00
Bromomethane	<1.00	<1.00	<1.00	<1.00
Butyl benzyl phthalate	<8			
Cadmium, total	<.8	<.8	<.8	<.8
Carbon disulfide	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00	<1.00	<1.00
Chlordane	<.1			
Chloride		74.1		
Chlorobenzene	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate	<8			
Chloroethane	<1.00	<1.00	<1.00	<1.00
Chloroform	<1.00	<1.00	<1.00	<1.00
Chloromethane	<1.00	<1.00	<1.00	<1.00
Chloroprene	<1			
Chromium, total	<8.00	<8.00	<8.00	<8.00
Chrysene	<8			
Cis-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00
Cobalt, total	1.10	1.70	1.60	1.70
COD, total		<20		
Copper, total	<4.0	<4.0	<4.0	<4.0
Cyanide, total	<.005			
Delta-bhc	<.05			
Diallate	<8			
Dibenzo(a,h)anthracene	<8			
Dibenzofuran	<8			
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.00	<1.00	<1.00	<1.00
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	<1.00	<1.00	<1.00	<1.00
Famphur	<.4			
Fluoranthene	<8			
Fluorene	<8			
Gamma-bhc [lindane]	<.05			
Heptachlor	<.05			

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

Table 27

Analytical Data Summary for MW-9

Constituents	Units	10/24/2014	10/20/2015	4/11/2016	10/12/2016	4/12/2017	10/25/2017	4/11/2018	7/2/2018
Heptachlor epoxide	ug/L					<.05		<.05	
Hexachlorobenzene	ug/L					<.05		.12	<.30
Hexachlorobutadiene	ug/L					<8		<8	
Hexachlorocyclopentadiene	ug/L					<8		<8	
Hexachloroethane	ug/L					<8		<8	
Hexachloropropene	ug/L					<8		<8	
Indeno(1,2,3-cd)pyrene	ug/L					<8		<8	
Iodomethane	ug/L	<.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Isobutanol	mg/L					<1		<1	
Isodrin	ug/L					<8		<8	
Isophorone	ug/L					<8		<8	
Isosafrole	ug/L					<8		<8	
Kepone	ug/L					<8		<8	
Lead, total	ug/L	<.0967	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	
Mercury, total	ug/L					<.5		<.5	
Methacrylonitrile	ug/L					<1		<1	
Methapyrilene	ug/L					<8		<8	
Methoxychlor	ug/L					<.05		<.05	
Methyl methacrylate	ug/L					<1		<1	
Methyl methanesulfonate	ug/L					<8		<8	
Methyl parathion	ug/L					<.4		<.4	
Methylene chloride	ug/L	<.17	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	
Naphthalene	ug/L					<8		<8	
Nickel, total	ug/L	7.07	4.80	5.20	<4.00	4.10	<4.00	<4.00	
Nitrobenzene	ug/L					<8		<8	
Nitrogen, Ammonia	mg/L								
N-nitrosodiethylamine	ug/L					<8		<8	
N-nitrosodimethylamine	ug/L					<8		<8	
N-nitrosodi-n-butylamine	ug/L					<8		<8	
N-nitroso-di-n-propylamine	ug/L					<8		<8	
N-nitrosodiphenylamine	ug/L					<8		<8	
N-nitrosomethylethylamine	ug/L					<8		<8	
N-nitrosopiperidine	ug/L					<8		<8	
N-nitrosopyrrolidine	ug/L					<8		<8	
O,o,o-triethyl phosphorothioate	ug/L					<.4		<.4	
O-toluidine	ug/L					<8		<8	
P-(dimethylamino)azobenzene	ug/L					<8		<8	
Parathion	ug/L					<.4		<.4	
Pentachlorobenzene	ug/L					<8		<8	
Pentachloronitrobenzene (pcnb)	ug/L					<8		<8	
Pentachlorophenol	ug/L					<8		<8	
Phenacetin	ug/L					<8		<8	
Phenanthrene	ug/L					<8		<8	
Phenol	ug/L					<8		<8	
Phorate	ug/L					<.4		<.4	
Pronamide	ug/L					<8		<8	
Propionitrile	ug/L					<10		<10	
Pyrene	ug/L					<8		<8	
Safrole	ug/L					<8		<8	
Selenium, total	ug/L	<3.34	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	
Silver, total	ug/L	<.042	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	
Styrene	ug/L	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Sulfide, total	mg/L					<.1		<.1	
Tetrachloroethylene	ug/L	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Thallium, total	ug/L	<1	<4	<4	<4	<4	<4	<4	
Thionazin	ug/L					<.4		<.4	
Tin, total	ug/L					<20		<20	
Toluene	ug/L	<.15	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Total suspended solids	mg/L	23.9							
Toxaphene	ug/L					<.2		<.2	
Trans-1,2-dichloroethylene	ug/L	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Trans-1,3-dichloropropene	ug/L	<.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Trans-1,4-dichloro-2-butene	ug/L	<.13	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	
Trichloroethylene	ug/L	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Trichlorofluoromethane	ug/L	<.17	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Turbidity, field	NTU	21.14							
Turbidity, lab	NTU	126							
Vanadium, total	ug/L	<.449	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	
Vinyl acetate	ug/L	<.74	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	
Vinyl chloride	ug/L	<.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Xylenes, total	ug/L	<.13	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	
Zinc, total	ug/L	<20.0	<8.0	<8.0	<20.0	<8.0	<8.0	<20.0	

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

Table 27

Analytical Data Summary for MW-9

Constituents	10/16/2018	4/18/2019	10/16/2019	4/6/2020	10/14/2020	4/12/2021	10/6/2021	4/15/2022	10/25/2022
Heptachlor epoxide									
Hexachlorobenzene									
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno(1,2,3-cd)pyrene									
Iodomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isobutanol									
Isodrin									
Isophorone									
Isosafrole									
Kepone									
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total									
Methacrylonitrile									
Methapyrilene									
Methoxychlor									
Methyl methacrylate									
Methyl methanesulfonate									
Methyl parathion									
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene									
Nickel, total	5.70	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Nitrobenzene									
Nitrogen, Ammonia									
N-nitrosodiethylamine									
N-nitrosodimethylamine									
N-nitrosodi-n-butylamine									
N-nitroso-di-n-propylamine									
N-nitrosodiphenylamine									
N-nitrosomethylethylamine									
N-nitrosopiperidine									
N-nitrosopyrrolidine									
O,o,o-triethyl phosphorothioate									
O-toluidine									
P-(dimethylamino)azobenzene									
Parathion									
Pentachlorobenzene									
Pentachloronitrobenzene (pcnb)									
Pentachlorophenol									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Pronamide									
Propionitrile									
Pyrene									
Safrole									
Selenium, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfide, total									
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium, total	<4	<2	<2	<2	<2	<2	<2	<2	<2
Thionazin									
Tin, total									
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total suspended solids									
Toxaphene									
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Turbidity, field									
Turbidity, lab									
Vanadium, total	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Zinc, total	10.2	<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 27

Analytical Data Summary for MW-9

Constituents	4/3/2023	10/16/2023	4/22/2024	10/7/2024
Heptachlor epoxide	<.05			
Hexachlorobenzene	<.05			
Hexachlorobutadiene	<8			
Hexachlorocyclopentadiene	<8			
Hexachloroethane	<8			
Hexachloropropene	<8			
Indeno(1,2,3-cd)pyrene	<8			
Iodomethane	<2.0	<1.0	<1.0	<1.0
Isobutanol	<1			
Isodrin	<8			
Isophorone	<8			
Isosafrole	<8			
Kepone	<8			
Lead, total	<4.0000	<4.0000	<4.0000	<4.0000
Mercury, total	<.5			
Methacrylonitrile	<1			
Methapyrilene	<8			
Methoxychlor	<.05			
Methyl methacrylate	<1			
Methyl methanesulfonate	<8			
Methyl parathion	<.4			
Methylene chloride	<5.00	<5.00	<5.00	<5.00
Naphthalene	<8			
Nickel, total	<4.00	8.40	5.10	9.70
Nitrobenzene	<8			
Nitrogen, Ammonia		<.1		
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			
P-(dimethylamino)azobenzene	<8			
Parathion	<.4			
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	<4.00	<4.00	<4.00	<4.00
Silver, total	<4.000	<4.000	<4.000	<4.000
Styrene	<1.0	<1.0	<1.0	<1.0
Sulfide, total	<.3			
Tetrachloroethylene	<1.00	<1.00	<1.00	<1.00
Thallium, total	<2	<2	<2	<2
Thionazin	<.4			
Tin, total	<20			
Toluene	<1.00	<1.00	<1.00	<1.00
Total suspended solids				
Toxaphene	<.2			
Trans-1,2-dichloroethylene	<1.00	<1.00	<1.00	<1.00
Trans-1,3-dichloropropene	<1.00	<1.00	<1.00	<1.00
Trans-1,4-dichloro-2-butene	<5.00	<5.00	<5.00	<5.00
Trichloroethylene	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00
Turbidity, field				
Turbidity, lab				
Vanadium, total	<20.000	<20.000	<20.000	<20.000
Vinyl acetate	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.00	<2.00	<2.00	<2.00
Zinc, total	<20.0	<20.0	<20.0	<20.0

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

Table 28

Analytical Data Summary for PEC 1

Constituents	Units	10/13/2020
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	<5
1,2-dibromoethane	ug/L	<1
1,2-dichlorobenzene	ug/L	<1
1,2-dichloroethane	ug/L	<1
1,2-dichloropropane	ug/L	<1
1,4-dichlorobenzene	ug/L	<1
2-butanone	ug/L	<5
2-hexanone	ug/L	<5
4-methyl-2-pentanone	ug/L	<5
Acetone	ug/L	<10
Acrylonitrile	ug/L	<5
Benzene	ug/L	<1
Bromochloromethane	ug/L	<1
Bromodichloromethane	ug/L	<1
Bromoform	ug/L	<1
Bromomethane	ug/L	<1
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
Cis-1,2-dichloroethylene	ug/L	<1
Cis-1,3-dichloropropene	ug/L	<1
Dibromochloromethane	ug/L	<1
Dibromomethane	ug/L	<1
Ethylbenzene	ug/L	<1
Iodomethane	ug/L	<1
Methylene chloride	ug/L	<5
Styrene	ug/L	<1
Tetrachloroethylene	ug/L	<1
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
Vinyl acetate	ug/L	<5
Vinyl chloride	ug/L	<1
Xylenes, total	ug/L	<2

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

Table 29

Analytical Data Summary for PECS-1

Constituents	Units	4/12/2021	10/6/2021	4/14/2022	10/25/2022	4/3/2023	10/16/2023	4/22/2024	10/7/2024
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	<5	<5	<5	<5	<5	<5	<5	<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	ug/L	<5	<5	<10	<10	<10	<10	<10	<10
2-hexanone	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone	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
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
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
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
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
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
Iodomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
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
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

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

Appendix D

Statistical Reports

Appendix D.1 – Spring Statistical Evaluation Report

GROUND WATER STATISTICS

FOR THE

FAYETTE COUNTY SANITARY LANDFILL

First Semi-Annual Monitoring Event in 2024

Prepared for:
Fayette County Solid Waste Management Commission
P.O. Box 269
West Union, IA 52175

Prepared by:
Jeffrey A. Holmgren
Otter Creek Environmental Services, LLC
40W565 Foxwick Court
Elgin, IL 60124
(847) 464-1355

May 2024

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 2024 at the Fayette County Sanitary Landfill in Fayette 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 Fayette County Landfill data. The statistical plan conforms with IAC 567, Chapter 113.10, USEPA Guidance document ("*Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Unified Guidance*", March 2009), and the American Society for Testing and Materials (ASTM) standard D6312-98, *Developing Appropriate Statistical Approaches for Ground-Water Detection Monitoring Programs*.

Ground Water Monitoring Program

The groundwater monitoring network for Fayette County Landfill includes wells MW-10, MW-11, MW-12, MW-14R, MW-16, MW-17, MW-18, MW-20, MW-21, MW-24, MW-25, MW-26, MW-32, MW-33, MW-5, MW-6, MW-7, MW-8, and MW-9. Wells MW-32 and MW-33 replace MW-27 and MW-28 in the monitoring program. 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	*trans*-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	*cis*-1,2-Dichloroethene	1,1,2,2-Tetrachloroethane
Bromoform	*trans*-1,2-Dichloroethene	Tetrachloroethene
Carbon disulfide	1,2-Dichloropropane	Toluene
Carbon tetrachloride	*cis*-1,3-Dichloropropene	1,1,1-Trichloroethane
Chlorobenzene	*trans*-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 2024 are summarized in Attachment A.

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

IAC 567, Chapter 113.10(4) provides several options for statistically evaluating the ground water data at those wells that monitor the open cells or contiguous MSWLF units. The preferred methods for comparing ground water data are using either prediction limits or using control charts. The prediction limit method was applied to the Fayette County 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.

<u>Results of the Interwell Statistics – Shallow Zone</u>

The previous background data used in the statistical analysis included the ground water data collected from ground water wells MW-12, MW-17, and MW-21 during the period from October 2007 through the current data. The October 2007, January 2008, and April 2008 data from wells MW-12 and MW-17 was excluded due to high levels of several metals. The October 2007 data from well MW-21 was excluded due to high levels of several metals. The background data used in this statistical analysis includes the ground water data collected from ground water wells MW-12, MW-17, and MW-21 during the period from October 2014 through the current data. A summary of the background data from monitoring wells MW-12, MW-17, and MW-21, 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-9, MW-16, MW-24, MW-25, MW-26, MW-32, and MW-33, compared to the site prediction limits. Prediction limit exceedances are flagged with asterisks. For the most current data, the site prediction limit exceedances detected are summarized in the Table below.

Summary of Prediction Limit Exceedances for the First Semi-Annual Monitoring Event in 2024

Well	Trace Metal	Result	Prediction Limit	Prediction Limit Type	Verified or Awaiting Verification
MW-24	Arsenic, µg/L	10.8	4.0000	Nonparametric	Awaiting Verification
	Barium, µg/L	490	199.5406	Normal	Verified
	Cobalt, µg/L	2.1	0.8000	Nonparametric	Awaiting Verification
	Nickel, µg/L	38.0	4.3000	Nonparametric	Verified
MW-25	Arsenic, µg/L	5.7	4.0000	Nonparametric	Awaiting Verification
	Cobalt, µg/L	4.7	0.8000	Nonparametric	Awaiting Verification
	Nickel, µg/L	7.9	4.3000	Nonparametric	Awaiting Verification
MW-26	Cobalt, µg/L	1.1	0.8000	Nonparametric	Verified
MW-32	Barium, µg/L	421	199.5406	Normal	Verified
	Cobalt, µg/L	1.4	0.8000	Nonparametric	Awaiting Verification
	Nickel, µg/L	6.6	4.3000	Nonparametric	Awaiting Verification
MW-33	Arsenic, µg/L	27.6	4.0000	Nonparametric	Verified
	Cadmium, µg/L	1.8	0.8000	Nonparametric	Verified
	Cobalt, µg/L	86.3	0.8000	Nonparametric	Verified
	Nickel, µg/L	112	4.3000	Nonparametric	Verified
MW-9	Barium, µg/L	394	199.5406	Normal	Verified
	Cobalt, µg/L	1.6	0.8000	Nonparametric	Verified
	Nickel, µg/L	5.1	4.3000	Nonparametric	Verified

The detection frequencies of the parameters in the up and down gradient monitoring wells are summarized in Table 3. With the exception of barium, these constituents are rarely detected in the upgradient wells. With the detection frequencies being less than 50% for all but barium, nonparametric site prediction limits are used for those trace metals.

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 2% and the test becomes sensitive to 3 standard deviation unit increases over background.

The verified exceedances were evaluated against the ground water protection standards (GWPS) using confidence limits (Attachment C). The 95% lower confidence limit (LCL) for the mean of the historical data was used to evaluate whether the regulated unit is in compliance with the ground-water protection standards under 40 CFR 264 (e.g. whether the verified constituent is detected at a significant level above the GWPS). An exceedance is verified if the LCL is above the Regulatory GWPS.

The calculated 95% LCLs are below the respective GWPS.

Volatile Organic Compounds

Volatile Organic Compounds (VOCs) are generally man-made compounds not present in ambient ground water. If VOCs are detected above their statistical limit (i.e., the laboratory PQL or reporting limit), a verification resample will be conducted at the next scheduled sampling event. A statistical exceedance will be indicated if the VOC detection is confirmed by the subsequent monitoring. VOCs detected in the ground water at Fayette County Landfill during the first semi-annual monitoring event in 2024 are summarized below.

Organic compounds detected during the first semi-annual monitoring event in 2024

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting Verification	Groundwater Standard, µg/L
MW-5	Benzene	3.7	1	Verified	5[a]
	Chloroethane	4.1	1	Verified	2800[b]
	cis-1,2-Dichloroethene	1.1	1	Verified	70[a]

a - USEPA MCL
b – Iowa Statewide Standard

Historical VOC detections are summarized in Attachment D. Monitoring well MW-5 is currently in assessment monitoring because of the previous occurrences of VOCs. The verified VOC detections were evaluated against the GWPS using confidence limits (Attachment E). The 95% LCLs for the verified VOC detections are below the respective ground water standards.

Assessment Wells

In addition to VOCs, monitoring wells MW-5 and MW-7 are in assessment from prior trace metals detected. The verified trace metal exceedances were evaluated against the ground water protection standards (GWPS) using confidence limits (Attachment F). The 95% lower confidence limit (LCL) for the mean of the historical data was used to evaluate whether the regulated unit is in compliance with the ground-water protection standards under 40 CFR 264 (e.g. whether the verified constituent is detected at a significant level above the GWPS). An exceedance is verified if the LCL is above the Regulatory GWPS. The 95% LCLs for the verified trace metal detections are below the respective ground water standards.

Attachment A

Summary of the Data obtained during the First Semi-Annual Monitoring Event in 2024

Table 1

Analytical Data Summary for 4/22/2024

Constituents	Units	ACM TILE 1	MW-12	MW-16	MW-17	MW-21	MW-24	MW-25	MW-26	MW-32	MW-33	MW-5
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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-hexanone	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone	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
Arsenic, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	10.8	5.7	<4.0	<4.0	27.6	15.0
Barium, total	ug/L		110.0	121.0	103.0	45.2	490.0	48.3	26.1	421.0	185.0	261.0
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.7
Beryllium, total	ug/L		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bis(2-ethylhexyl) phthalate	ug/L										<6	
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	<.8	<.8	<.8	<.8	1.8	<.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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.1
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	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L		<.4	<.4	<.4	<.4	2.1	4.7	1.1	1.4	86.3	.6
Copper, total	ug/L		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
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
Iodomethane	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
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L		<4.0	<4.0	<4.0	<4.0	38.0	7.9	<4.0	6.6	112.0	<4.0
Selenium, total	ug/L		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L											<.1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L		<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
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
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20

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

Table 1

Analytical Data Summary for 4/22/2024

Constituents	MW-7	MW-9	PECS-1
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
1,2,3-trichloropropane	<1	<1	<1
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
1,4-dichlorobenzene	<1	<1	<1
2-butanone	<10	<10	<10
2-hexanone	<5	<5	<5
4-methyl-2-pentanone	<5	<5	<5
Acetone	<10	<10	<10
Acrylonitrile	<5	<5	<5
Antimony, total	<2	<2	
Arsenic, total	<4.0	<4.0	
Barium, total	39.5	394.0	
Benzene	<1.0	<1.0	<1.0
Beryllium, total	<4	<4	
Bis(2-ethylhexyl) phthalate			
Bromochloromethane	<1	<1	<1
Bromodichloromethane	<1	<1	<1
Bromoform	<1	<1	<1
Bromomethane	<1	<1	<1
Cadmium, total	<.8	<.8	
Carbon disulfide	<1	<1	<1
Carbon tetrachloride	<1	<1	<1
Chlorobenzene	<1	<1	<1
Chloroethane	<1.0	<1.0	<1.0
Chloroform	<1	<1	<1
Chloromethane	<1	<1	<1
Chromium, total	<8	<8	
Cis-1,2-dichloroethylene	<1.0	<1.0	<1.0
Cis-1,3-dichloropropene	<1	<1	<1
Cobalt, total	<.4	1.6	
Copper, total	<4	<4	
Dibromochloromethane	<1	<1	<1
Dibromomethane	<1	<1	<1
Ethylbenzene	<1	<1	<1
Iodomethane	<1	<1	<1
Lead, total	<4	<4	
Methylene chloride	<5	<5	<5
Nickel, total	<4.0	5.1	
Selenium, total	<4	<4	
Silver, total	<4	<4	
Styrene	<1	<1	<1
Sulfide, total			
Tetrachloroethylene	<1	<1	<1
Thallium, total	<2	<2	
Toluene	<1	<1	<1
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	
Vinyl acetate	<5	<5	<5
Vinyl chloride	<1	<1	<1
Xylenes, total	<2	<2	<2
Zinc, total	<20	<20	

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

Attachment B

Summary Tables and Graphs for the Interwell Comparisons – Shallow Zone

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW-12	10/24/2014	ND	0.1610		*
Antimony, total	ug/L	MW-12	04/07/2015	ND	0.1610		*
Antimony, total	ug/L	MW-12	10/20/2015	ND	2.0000		
Antimony, total	ug/L	MW-12	04/11/2016	ND	2.0000		
Antimony, total	ug/L	MW-12	10/12/2016		6.2000		*
Antimony, total	ug/L	MW-12	04/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-12	10/25/2017	ND	2.0000		
Antimony, total	ug/L	MW-12	04/11/2018	ND	2.0000		
Antimony, total	ug/L	MW-12	10/16/2018	ND	2.0000		
Antimony, total	ug/L	MW-12	04/17/2019	ND	2.0000		
Antimony, total	ug/L	MW-12	10/15/2019	ND	2.0000		
Antimony, total	ug/L	MW-12	04/06/2020	ND	2.0000		
Antimony, total	ug/L	MW-12	10/13/2020	ND	2.0000		
Antimony, total	ug/L	MW-12	04/12/2021	ND	2.0000		
Antimony, total	ug/L	MW-12	10/06/2021	ND	2.0000		
Antimony, total	ug/L	MW-12	04/14/2022	ND	2.0000		
Antimony, total	ug/L	MW-12	10/25/2022	ND	2.0000		
Antimony, total	ug/L	MW-12	04/03/2023	ND	2.0000		
Antimony, total	ug/L	MW-12	10/16/2023	ND	2.0000		
Antimony, total	ug/L	MW-12	04/22/2024	ND	2.0000		
Arsenic, total	ug/L	MW-12	10/24/2014	ND	0.9450		*
Arsenic, total	ug/L	MW-12	04/07/2015	ND	0.9450		*
Arsenic, total	ug/L	MW-12	10/20/2015	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/11/2016	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/12/2016	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/25/2017	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/11/2018	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/16/2018	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/17/2019	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/15/2019	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/06/2020	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/13/2020	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/12/2021	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/06/2021	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/25/2022	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/03/2023	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/16/2023	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/22/2024	ND	4.0000		
Barium, total	ug/L	MW-12	10/24/2014		161.0000		
Barium, total	ug/L	MW-12	04/07/2015		159.0000		
Barium, total	ug/L	MW-12	10/20/2015		137.0000		
Barium, total	ug/L	MW-12	04/11/2016		174.0000		
Barium, total	ug/L	MW-12	10/12/2016		129.0000		
Barium, total	ug/L	MW-12	04/13/2017		212.0000		
Barium, total	ug/L	MW-12	10/25/2017		152.0000		
Barium, total	ug/L	MW-12	04/11/2018		190.0000		
Barium, total	ug/L	MW-12	10/16/2018		116.0000		
Barium, total	ug/L	MW-12	04/17/2019		205.0000		
Barium, total	ug/L	MW-12	10/15/2019		152.0000		
Barium, total	ug/L	MW-12	04/06/2020		108.0000		
Barium, total	ug/L	MW-12	10/13/2020		111.0000		
Barium, total	ug/L	MW-12	04/12/2021		90.8000		
Barium, total	ug/L	MW-12	10/06/2021		105.0000		
Barium, total	ug/L	MW-12	04/14/2022		90.2000		
Barium, total	ug/L	MW-12	10/25/2022		115.0000		
Barium, total	ug/L	MW-12	04/03/2023		99.6000		
Barium, total	ug/L	MW-12	10/16/2023		129.0000		
Barium, total	ug/L	MW-12	04/22/2024		110.0000		
Beryllium, total	ug/L	MW-12	10/24/2014	ND	0.0390		*
Beryllium, total	ug/L	MW-12	04/07/2015	ND	0.0390		*
Beryllium, total	ug/L	MW-12	10/20/2015	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/11/2016	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/12/2016	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/25/2017	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/11/2018	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/16/2018	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/17/2019	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/15/2019	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/06/2020	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/13/2020	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/12/2021	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	
Beryllium, total	ug/L	MW-12	10/06/2021	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/25/2022	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/03/2023	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/16/2023	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/22/2024	ND	4.0000		
Cadmium, total	ug/L	MW-12	10/24/2014	ND	0.1120		*
Cadmium, total	ug/L	MW-12	04/07/2015	ND	0.1120		*
Cadmium, total	ug/L	MW-12	10/20/2015	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/11/2016	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/12/2016	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/13/2017	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/25/2017	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/11/2018	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/16/2018	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/17/2019	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/15/2019	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/06/2020	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/13/2020	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/12/2021	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/06/2021	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/25/2022	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/03/2023	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/16/2023	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/22/2024	ND	0.8000		
Chromium, total	ug/L	MW-12	10/24/2014	ND	1.2400		*
Chromium, total	ug/L	MW-12	04/07/2015	ND	1.2400		*
Chromium, total	ug/L	MW-12	10/20/2015	ND	8.0000		
Chromium, total	ug/L	MW-12	04/11/2016	ND	8.0000		
Chromium, total	ug/L	MW-12	10/12/2016	ND	8.0000		
Chromium, total	ug/L	MW-12	04/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-12	10/25/2017	ND	8.0000		
Chromium, total	ug/L	MW-12	04/11/2018	ND	8.0000		
Chromium, total	ug/L	MW-12	10/16/2018	ND	8.0000		
Chromium, total	ug/L	MW-12	04/17/2019	ND	8.0000		
Chromium, total	ug/L	MW-12	10/15/2019	ND	8.0000		
Chromium, total	ug/L	MW-12	04/06/2020	ND	8.0000		
Chromium, total	ug/L	MW-12	10/13/2020	ND	8.0000		
Chromium, total	ug/L	MW-12	04/12/2021	ND	8.0000		
Chromium, total	ug/L	MW-12	10/06/2021	ND	8.0000		
Chromium, total	ug/L	MW-12	04/14/2022	ND	8.0000		
Chromium, total	ug/L	MW-12	10/25/2022	ND	8.0000		
Chromium, total	ug/L	MW-12	04/03/2023	ND	8.0000		
Chromium, total	ug/L	MW-12	10/16/2023	ND	8.0000		
Chromium, total	ug/L	MW-12	04/22/2024	ND	8.0000		
Cobalt, total	ug/L	MW-12	10/24/2014	ND	0.0528		*
Cobalt, total	ug/L	MW-12	04/07/2015	ND	0.0528		*
Cobalt, total	ug/L	MW-12	10/20/2015	ND	0.8000		
Cobalt, total	ug/L	MW-12	04/11/2016	ND	0.8000		
Cobalt, total	ug/L	MW-12	10/12/2016	ND	0.8000		
Cobalt, total	ug/L	MW-12	04/13/2017	ND	0.8000		
Cobalt, total	ug/L	MW-12	10/25/2017	ND	0.8000		
Cobalt, total	ug/L	MW-12	04/11/2018	ND	0.8000		
Cobalt, total	ug/L	MW-12	10/16/2018	ND	0.8000		
Cobalt, total	ug/L	MW-12	04/17/2019	ND	0.8000		
Cobalt, total	ug/L	MW-12	10/15/2019	ND	0.8000		
Cobalt, total	ug/L	MW-12	04/06/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-12	10/13/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-12	04/12/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-12	10/06/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-12	04/14/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-12	10/25/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-12	04/03/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-12	10/16/2023		0.7000		
Cobalt, total	ug/L	MW-12	04/22/2024	ND	0.4000	0.8000	**
Copper, total	ug/L	MW-12	10/24/2014		5.7500		
Copper, total	ug/L	MW-12	04/07/2015	ND	0.4850		*
Copper, total	ug/L	MW-12	10/20/2015	ND	4.0000		
Copper, total	ug/L	MW-12	04/11/2016	ND	4.0000		
Copper, total	ug/L	MW-12	10/12/2016	ND	4.0000		
Copper, total	ug/L	MW-12	04/13/2017	ND	4.0000		
Copper, total	ug/L	MW-12	10/25/2017	ND	4.0000		
Copper, total	ug/L	MW-12	04/11/2018	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-12	10/16/2018	ND	4.0000		
Copper, total	ug/L	MW-12	04/17/2019	ND	4.0000		
Copper, total	ug/L	MW-12	10/15/2019	ND	4.0000		
Copper, total	ug/L	MW-12	04/06/2020	ND	4.0000		
Copper, total	ug/L	MW-12	10/13/2020	ND	4.0000		
Copper, total	ug/L	MW-12	04/12/2021	ND	4.0000		
Copper, total	ug/L	MW-12	10/06/2021	ND	4.0000		
Copper, total	ug/L	MW-12	04/14/2022	ND	4.0000		
Copper, total	ug/L	MW-12	10/25/2022	ND	4.0000		
Copper, total	ug/L	MW-12	04/03/2023	ND	4.0000		
Copper, total	ug/L	MW-12	10/16/2023	ND	4.0000		
Copper, total	ug/L	MW-12	04/22/2024	ND	4.0000		
Lead, total	ug/L	MW-12	10/24/2014	ND	0.0967		*
Lead, total	ug/L	MW-12	04/07/2015	ND	0.0967		*
Lead, total	ug/L	MW-12	10/20/2015	ND	4.0000		
Lead, total	ug/L	MW-12	04/11/2016	ND	4.0000		
Lead, total	ug/L	MW-12	10/12/2016	ND	4.0000		
Lead, total	ug/L	MW-12	04/13/2017	ND	4.0000		
Lead, total	ug/L	MW-12	10/25/2017	ND	4.0000		
Lead, total	ug/L	MW-12	04/11/2018	ND	4.0000		
Lead, total	ug/L	MW-12	10/16/2018	ND	4.0000		
Lead, total	ug/L	MW-12	04/17/2019	ND	4.0000		
Lead, total	ug/L	MW-12	10/15/2019	ND	4.0000		
Lead, total	ug/L	MW-12	04/06/2020	ND	4.0000		
Lead, total	ug/L	MW-12	10/13/2020	ND	4.0000		
Lead, total	ug/L	MW-12	04/12/2021	ND	4.0000		
Lead, total	ug/L	MW-12	10/06/2021	ND	4.0000		
Lead, total	ug/L	MW-12	04/14/2022	ND	4.0000		
Lead, total	ug/L	MW-12	10/25/2022	ND	4.0000		
Lead, total	ug/L	MW-12	04/03/2023	ND	4.0000		
Lead, total	ug/L	MW-12	10/16/2023	ND	4.0000		
Lead, total	ug/L	MW-12	04/22/2024	ND	4.0000		
Nickel, total	ug/L	MW-12	10/24/2014	ND	1.0000		*
Nickel, total	ug/L	MW-12	04/07/2015	ND	0.5810		*
Nickel, total	ug/L	MW-12	10/20/2015	ND	4.0000		
Nickel, total	ug/L	MW-12	04/11/2016	ND	4.0000		
Nickel, total	ug/L	MW-12	10/12/2016	ND	4.0000		
Nickel, total	ug/L	MW-12	04/13/2017	ND	4.0000		
Nickel, total	ug/L	MW-12	10/25/2017	ND	4.0000		
Nickel, total	ug/L	MW-12	04/11/2018	ND	4.0000		
Nickel, total	ug/L	MW-12	10/16/2018	ND	4.0000		
Nickel, total	ug/L	MW-12	04/17/2019	ND	4.0000		
Nickel, total	ug/L	MW-12	10/15/2019	ND	4.0000		
Nickel, total	ug/L	MW-12	04/06/2020	ND	4.0000		
Nickel, total	ug/L	MW-12	10/13/2020	ND	4.0000		
Nickel, total	ug/L	MW-12	04/12/2021	ND	4.0000		
Nickel, total	ug/L	MW-12	10/06/2021	ND	4.0000		
Nickel, total	ug/L	MW-12	04/14/2022	ND	4.0000		
Nickel, total	ug/L	MW-12	10/25/2022	ND	4.0000		
Nickel, total	ug/L	MW-12	04/03/2023	ND	4.0000		
Nickel, total	ug/L	MW-12	10/16/2023	ND	4.0000		
Nickel, total	ug/L	MW-12	04/22/2024	ND	4.0000		
Selenium, total	ug/L	MW-12	10/24/2014	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-12	04/07/2015	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-12	10/20/2015	ND	4.0000		
Selenium, total	ug/L	MW-12	04/11/2016	ND	4.0000		
Selenium, total	ug/L	MW-12	10/12/2016	ND	4.0000		
Selenium, total	ug/L	MW-12	04/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-12	10/25/2017	ND	4.0000		
Selenium, total	ug/L	MW-12	04/11/2018	ND	4.0000		
Selenium, total	ug/L	MW-12	10/16/2018	ND	4.0000		
Selenium, total	ug/L	MW-12	04/17/2019	ND	4.0000		
Selenium, total	ug/L	MW-12	10/15/2019	ND	4.0000		
Selenium, total	ug/L	MW-12	04/06/2020	ND	4.0000		
Selenium, total	ug/L	MW-12	10/13/2020	ND	4.0000		
Selenium, total	ug/L	MW-12	04/12/2021	ND	4.0000		
Selenium, total	ug/L	MW-12	10/06/2021	ND	4.0000		
Selenium, total	ug/L	MW-12	04/14/2022	ND	4.0000		
Selenium, total	ug/L	MW-12	10/25/2022	ND	4.0000		
Selenium, total	ug/L	MW-12	04/03/2023	ND	4.0000		
Selenium, total	ug/L	MW-12	10/16/2023	ND	4.0000		
Selenium, total	ug/L	MW-12	04/22/2024	ND	4.0000		
Silver, total	ug/L	MW-12	10/24/2014	ND	0.0420		*
Silver, total	ug/L	MW-12	04/07/2015	ND	0.0420		*

* - 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-12	10/20/2015	ND	4.0000		
Silver, total	ug/L	MW-12	04/11/2016	ND	4.0000		
Silver, total	ug/L	MW-12	10/12/2016	ND	4.0000		
Silver, total	ug/L	MW-12	04/13/2017	ND	4.0000		
Silver, total	ug/L	MW-12	10/25/2017	ND	4.0000		
Silver, total	ug/L	MW-12	04/11/2018	ND	4.0000		
Silver, total	ug/L	MW-12	10/16/2018	ND	4.0000		
Silver, total	ug/L	MW-12	04/17/2019	ND	4.0000		
Silver, total	ug/L	MW-12	10/15/2019	ND	4.0000		
Silver, total	ug/L	MW-12	04/06/2020	ND	4.0000		
Silver, total	ug/L	MW-12	10/13/2020	ND	4.0000		
Silver, total	ug/L	MW-12	04/12/2021	ND	4.0000		
Silver, total	ug/L	MW-12	10/06/2021	ND	4.0000		
Silver, total	ug/L	MW-12	04/14/2022	ND	4.0000		
Silver, total	ug/L	MW-12	10/25/2022	ND	4.0000		
Silver, total	ug/L	MW-12	04/03/2023	ND	4.0000		
Silver, total	ug/L	MW-12	10/16/2023	ND	4.0000		
Silver, total	ug/L	MW-12	04/22/2024	ND	4.0000		
Thallium, total	ug/L	MW-12	10/24/2014	ND	0.0325		*
Thallium, total	ug/L	MW-12	04/07/2015	ND	0.0325		*
Thallium, total	ug/L	MW-12	10/20/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-12	04/11/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-12	10/12/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-12	04/13/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-12	10/25/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-12	04/11/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-12	10/16/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-12	04/17/2019	ND	2.0000		
Thallium, total	ug/L	MW-12	10/15/2019	ND	2.0000		
Thallium, total	ug/L	MW-12	04/06/2020	ND	2.0000		
Thallium, total	ug/L	MW-12	10/13/2020	ND	2.0000		
Thallium, total	ug/L	MW-12	04/12/2021	ND	2.0000		
Thallium, total	ug/L	MW-12	10/06/2021	ND	2.0000		
Thallium, total	ug/L	MW-12	04/14/2022	ND	2.0000		
Thallium, total	ug/L	MW-12	10/25/2022	ND	2.0000		
Thallium, total	ug/L	MW-12	04/03/2023	ND	2.0000		
Thallium, total	ug/L	MW-12	10/16/2023	ND	2.0000		
Thallium, total	ug/L	MW-12	04/22/2024	ND	2.0000		
Vanadium, total	ug/L	MW-12	10/24/2014	ND	1.0000		*
Vanadium, total	ug/L	MW-12	04/07/2015	ND	0.4490		*
Vanadium, total	ug/L	MW-12	10/20/2015	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/11/2016	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/12/2016	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/25/2017	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/11/2018	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/16/2018	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/17/2019	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/15/2019	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/06/2020	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/13/2020	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/12/2021	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/06/2021	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/25/2022	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/03/2023	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/16/2023	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/22/2024	ND	20.0000		
Zinc, total	ug/L	MW-12	10/24/2014	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-12	04/07/2015	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-12	10/20/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-12	04/11/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-12	10/12/2016	ND	20.0000		
Zinc, total	ug/L	MW-12	04/13/2017		8.0000		
Zinc, total	ug/L	MW-12	10/25/2017		8.9000		
Zinc, total	ug/L	MW-12	04/11/2018	ND	20.0000		
Zinc, total	ug/L	MW-12	10/16/2018		16.6000		
Zinc, total	ug/L	MW-12	04/17/2019	ND	20.0000		
Zinc, total	ug/L	MW-12	10/15/2019	ND	20.0000		
Zinc, total	ug/L	MW-12	04/06/2020	ND	20.0000		
Zinc, total	ug/L	MW-12	10/13/2020	ND	20.0000		
Zinc, total	ug/L	MW-12	04/12/2021	ND	20.0000		
Zinc, total	ug/L	MW-12	10/06/2021	ND	20.0000		
Zinc, total	ug/L	MW-12	04/14/2022	ND	20.0000		

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Zinc, total	ug/L	MW-12	10/25/2022	ND	20.0000		
Zinc, total	ug/L	MW-12	04/03/2023	ND	20.0000		
Zinc, total	ug/L	MW-12	10/16/2023	ND	20.0000		
Zinc, total	ug/L	MW-12	04/22/2024	ND	20.0000		
Antimony, total	ug/L	MW-17	10/24/2014	ND	0.5410		*
Antimony, total	ug/L	MW-17	04/07/2015	ND	0.1610		*
Antimony, total	ug/L	MW-17	10/20/2015	ND	2.0000		
Antimony, total	ug/L	MW-17	04/11/2016	ND	2.0000		
Antimony, total	ug/L	MW-17	10/12/2016	ND	2.0000		
Antimony, total	ug/L	MW-17	04/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-17	10/25/2017	ND	2.0000		
Antimony, total	ug/L	MW-17	04/11/2018	ND	2.0000		
Antimony, total	ug/L	MW-17	10/16/2018	ND	2.0000		
Antimony, total	ug/L	MW-17	04/17/2019	ND	2.0000		
Antimony, total	ug/L	MW-17	10/15/2019	ND	2.0000		
Antimony, total	ug/L	MW-17	04/06/2020	ND	2.0000		
Antimony, total	ug/L	MW-17	10/13/2020	ND	2.0000		
Antimony, total	ug/L	MW-17	04/12/2021	ND	2.0000		
Antimony, total	ug/L	MW-17	10/06/2021	ND	2.0000		
Antimony, total	ug/L	MW-17	04/14/2022	ND	2.0000		
Antimony, total	ug/L	MW-17	10/25/2022	ND	2.0000		
Antimony, total	ug/L	MW-17	04/03/2023	ND	2.0000		
Antimony, total	ug/L	MW-17	10/16/2023	ND	2.0000		
Antimony, total	ug/L	MW-17	04/22/2024	ND	2.0000		
Arsenic, total	ug/L	MW-17	10/24/2014	ND	0.9450		*
Arsenic, total	ug/L	MW-17	04/07/2015	ND	0.9450		*
Arsenic, total	ug/L	MW-17	10/20/2015	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/11/2016	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/12/2016	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/25/2017	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/11/2018	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/16/2018	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/17/2019	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/15/2019	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/06/2020	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/13/2020	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/12/2021	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/06/2021	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/25/2022	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/03/2023	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/16/2023	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/22/2024	ND	4.0000		
Barium, total	ug/L	MW-17	10/24/2014		104.0000		
Barium, total	ug/L	MW-17	04/07/2015		106.0000		
Barium, total	ug/L	MW-17	10/20/2015		93.0000		
Barium, total	ug/L	MW-17	04/11/2016		104.0000		
Barium, total	ug/L	MW-17	10/12/2016		93.6000		
Barium, total	ug/L	MW-17	04/13/2017		107.0000		
Barium, total	ug/L	MW-17	10/25/2017		98.8000		
Barium, total	ug/L	MW-17	04/11/2018		102.0000		
Barium, total	ug/L	MW-17	10/16/2018		113.0000		
Barium, total	ug/L	MW-17	04/17/2019		109.0000		
Barium, total	ug/L	MW-17	10/15/2019		108.0000		
Barium, total	ug/L	MW-17	04/06/2020		110.0000		
Barium, total	ug/L	MW-17	10/13/2020		104.0000		
Barium, total	ug/L	MW-17	04/12/2021		109.0000		
Barium, total	ug/L	MW-17	10/06/2021		102.0000		
Barium, total	ug/L	MW-17	04/14/2022		115.0000		
Barium, total	ug/L	MW-17	10/25/2022		123.0000		
Barium, total	ug/L	MW-17	04/03/2023		109.0000		
Barium, total	ug/L	MW-17	10/16/2023		111.0000		
Barium, total	ug/L	MW-17	04/22/2024		103.0000		
Beryllium, total	ug/L	MW-17	10/24/2014	ND	0.0390		*
Beryllium, total	ug/L	MW-17	04/07/2015	ND	0.0390		*
Beryllium, total	ug/L	MW-17	10/20/2015	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/11/2016	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/12/2016	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/25/2017	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/11/2018	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/16/2018	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/17/2019	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	10/15/2019	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/06/2020	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/13/2020	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/12/2021	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/06/2021	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/25/2022	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/03/2023	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/16/2023	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/22/2024	ND	4.0000		
Cadmium, total	ug/L	MW-17	10/24/2014	ND	0.1120		*
Cadmium, total	ug/L	MW-17	04/07/2015	ND	0.1120		*
Cadmium, total	ug/L	MW-17	10/20/2015	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/11/2016	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/12/2016	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/13/2017	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/25/2017	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/11/2018	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/16/2018	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/17/2019	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/15/2019	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/06/2020	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/13/2020	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/12/2021	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/06/2021	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/25/2022	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/03/2023	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/16/2023	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/22/2024	ND	0.8000		
Chromium, total	ug/L	MW-17	10/24/2014	ND	1.2400		*
Chromium, total	ug/L	MW-17	04/07/2015	ND	1.2400		*
Chromium, total	ug/L	MW-17	10/20/2015	ND	8.0000		
Chromium, total	ug/L	MW-17	04/11/2016	ND	8.0000		
Chromium, total	ug/L	MW-17	10/12/2016	ND	8.0000		
Chromium, total	ug/L	MW-17	04/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-17	10/25/2017	ND	8.0000		
Chromium, total	ug/L	MW-17	04/11/2018	ND	8.0000		
Chromium, total	ug/L	MW-17	10/16/2018	ND	8.0000		
Chromium, total	ug/L	MW-17	04/17/2019	ND	8.0000		
Chromium, total	ug/L	MW-17	10/15/2019	ND	8.0000		
Chromium, total	ug/L	MW-17	04/06/2020	ND	8.0000		
Chromium, total	ug/L	MW-17	10/13/2020	ND	8.0000		
Chromium, total	ug/L	MW-17	04/12/2021	ND	8.0000		
Chromium, total	ug/L	MW-17	10/06/2021	ND	8.0000		
Chromium, total	ug/L	MW-17	04/14/2022	ND	8.0000		
Chromium, total	ug/L	MW-17	10/25/2022	ND	8.0000		
Chromium, total	ug/L	MW-17	04/03/2023	ND	8.0000		
Chromium, total	ug/L	MW-17	10/16/2023	ND	8.0000		
Chromium, total	ug/L	MW-17	04/22/2024	ND	8.0000		
Cobalt, total	ug/L	MW-17	10/24/2014	ND	0.2000	0.8000	**
Cobalt, total	ug/L	MW-17	04/07/2015	ND	0.2000	0.8000	**
Cobalt, total	ug/L	MW-17	10/20/2015	ND	0.8000		
Cobalt, total	ug/L	MW-17	04/11/2016	ND	0.8000		
Cobalt, total	ug/L	MW-17	10/12/2016	ND	0.8000		
Cobalt, total	ug/L	MW-17	04/13/2017	ND	0.8000		
Cobalt, total	ug/L	MW-17	10/25/2017	ND	0.8000		
Cobalt, total	ug/L	MW-17	04/11/2018	ND	0.8000		
Cobalt, total	ug/L	MW-17	10/16/2018	ND	0.8000		
Cobalt, total	ug/L	MW-17	04/17/2019	ND	0.8000		
Cobalt, total	ug/L	MW-17	10/15/2019	ND	0.8000		
Cobalt, total	ug/L	MW-17	04/06/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	10/13/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	04/12/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	10/06/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	04/14/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	10/25/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	04/03/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	10/16/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-17	04/22/2024	ND	0.4000	0.8000	**
Copper, total	ug/L	MW-17	10/24/2014		3.6500		
Copper, total	ug/L	MW-17	04/07/2015	ND	0.4850		*
Copper, total	ug/L	MW-17	10/20/2015	ND	4.0000		
Copper, total	ug/L	MW-17	04/11/2016	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	
Copper, total	ug/L	MW-17	10/12/2016	ND	4.0000		
Copper, total	ug/L	MW-17	04/13/2017	ND	4.0000		
Copper, total	ug/L	MW-17	10/25/2017	ND	4.0000		
Copper, total	ug/L	MW-17	04/11/2018	ND	4.0000		
Copper, total	ug/L	MW-17	10/16/2018		7.9000		
Copper, total	ug/L	MW-17	04/17/2019	ND	4.0000		
Copper, total	ug/L	MW-17	10/15/2019	ND	4.0000		
Copper, total	ug/L	MW-17	04/06/2020	ND	4.0000		
Copper, total	ug/L	MW-17	10/13/2020	ND	4.0000		
Copper, total	ug/L	MW-17	04/12/2021	ND	4.0000		
Copper, total	ug/L	MW-17	10/06/2021	ND	4.0000		
Copper, total	ug/L	MW-17	04/14/2022	ND	4.0000		
Copper, total	ug/L	MW-17	10/25/2022	ND	4.0000		
Copper, total	ug/L	MW-17	04/03/2023	ND	4.0000		
Copper, total	ug/L	MW-17	10/16/2023	ND	4.0000		
Copper, total	ug/L	MW-17	04/22/2024	ND	4.0000		
Lead, total	ug/L	MW-17	10/24/2014	ND	0.5000		*
Lead, total	ug/L	MW-17	04/07/2015	ND	0.5000		*
Lead, total	ug/L	MW-17	10/20/2015	ND	4.0000		
Lead, total	ug/L	MW-17	04/11/2016	ND	4.0000		
Lead, total	ug/L	MW-17	10/12/2016	ND	4.0000		
Lead, total	ug/L	MW-17	04/13/2017	ND	4.0000		
Lead, total	ug/L	MW-17	10/25/2017	ND	4.0000		
Lead, total	ug/L	MW-17	04/11/2018	ND	4.0000		
Lead, total	ug/L	MW-17	10/16/2018		7.3000		*
Lead, total	ug/L	MW-17	04/17/2019	ND	4.0000		
Lead, total	ug/L	MW-17	10/15/2019	ND	4.0000		
Lead, total	ug/L	MW-17	04/06/2020	ND	4.0000		
Lead, total	ug/L	MW-17	10/13/2020	ND	4.0000		
Lead, total	ug/L	MW-17	04/12/2021	ND	4.0000		
Lead, total	ug/L	MW-17	10/06/2021	ND	4.0000		
Lead, total	ug/L	MW-17	04/14/2022	ND	4.0000		
Lead, total	ug/L	MW-17	10/25/2022	ND	4.0000		
Lead, total	ug/L	MW-17	04/03/2023	ND	4.0000		
Lead, total	ug/L	MW-17	10/16/2023	ND	4.0000		
Lead, total	ug/L	MW-17	04/22/2024	ND	4.0000		
Nickel, total	ug/L	MW-17	10/24/2014	ND	1.0000		*
Nickel, total	ug/L	MW-17	04/07/2015	ND	0.5810		*
Nickel, total	ug/L	MW-17	10/20/2015	ND	4.0000		
Nickel, total	ug/L	MW-17	04/11/2016	ND	4.0000		
Nickel, total	ug/L	MW-17	10/12/2016	ND	4.0000		
Nickel, total	ug/L	MW-17	04/13/2017	ND	4.0000		
Nickel, total	ug/L	MW-17	10/25/2017	ND	4.0000		
Nickel, total	ug/L	MW-17	04/11/2018	ND	4.0000		
Nickel, total	ug/L	MW-17	10/16/2018	ND	4.0000		
Nickel, total	ug/L	MW-17	04/17/2019	ND	4.0000		
Nickel, total	ug/L	MW-17	10/15/2019	ND	4.0000		
Nickel, total	ug/L	MW-17	04/06/2020	ND	4.0000		
Nickel, total	ug/L	MW-17	10/13/2020	ND	4.0000		
Nickel, total	ug/L	MW-17	04/12/2021	ND	4.0000		
Nickel, total	ug/L	MW-17	10/06/2021	ND	4.0000		
Nickel, total	ug/L	MW-17	04/14/2022	ND	4.0000		
Nickel, total	ug/L	MW-17	10/25/2022	ND	4.0000		
Nickel, total	ug/L	MW-17	04/03/2023	ND	4.0000		
Nickel, total	ug/L	MW-17	10/16/2023	ND	4.0000		
Nickel, total	ug/L	MW-17	04/22/2024	ND	4.0000		
Selenium, total	ug/L	MW-17	10/24/2014	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-17	04/07/2015	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-17	10/20/2015	ND	4.0000		
Selenium, total	ug/L	MW-17	04/11/2016	ND	4.0000		
Selenium, total	ug/L	MW-17	10/12/2016	ND	4.0000		
Selenium, total	ug/L	MW-17	04/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-17	10/25/2017	ND	4.0000		
Selenium, total	ug/L	MW-17	04/11/2018	ND	4.0000		
Selenium, total	ug/L	MW-17	10/16/2018	ND	4.0000		
Selenium, total	ug/L	MW-17	04/17/2019	ND	4.0000		
Selenium, total	ug/L	MW-17	10/15/2019	ND	4.0000		
Selenium, total	ug/L	MW-17	04/06/2020	ND	4.0000		
Selenium, total	ug/L	MW-17	10/13/2020	ND	4.0000		
Selenium, total	ug/L	MW-17	04/12/2021	ND	4.0000		
Selenium, total	ug/L	MW-17	10/06/2021	ND	4.0000		
Selenium, total	ug/L	MW-17	04/14/2022	ND	4.0000		
Selenium, total	ug/L	MW-17	10/25/2022	ND	4.0000		
Selenium, total	ug/L	MW-17	04/03/2023	ND	4.0000		

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Selenium, total	ug/L	MW-17	10/16/2023	ND	4.0000		
Selenium, total	ug/L	MW-17	04/22/2024	ND	4.0000		
Silver, total	ug/L	MW-17	10/24/2014	ND	0.0420		*
Silver, total	ug/L	MW-17	04/07/2015	ND	0.0420		*
Silver, total	ug/L	MW-17	10/20/2015	ND	4.0000		
Silver, total	ug/L	MW-17	04/11/2016	ND	4.0000		
Silver, total	ug/L	MW-17	10/12/2016	ND	4.0000		
Silver, total	ug/L	MW-17	04/13/2017	ND	4.0000		
Silver, total	ug/L	MW-17	10/25/2017	ND	4.0000		
Silver, total	ug/L	MW-17	04/11/2018	ND	4.0000		
Silver, total	ug/L	MW-17	10/16/2018	ND	4.0000		
Silver, total	ug/L	MW-17	04/17/2019	ND	4.0000		
Silver, total	ug/L	MW-17	10/15/2019	ND	4.0000		
Silver, total	ug/L	MW-17	04/06/2020	ND	4.0000		
Silver, total	ug/L	MW-17	10/13/2020	ND	4.0000		
Silver, total	ug/L	MW-17	04/12/2021	ND	4.0000		
Silver, total	ug/L	MW-17	10/06/2021	ND	4.0000		
Silver, total	ug/L	MW-17	04/14/2022	ND	4.0000		
Silver, total	ug/L	MW-17	10/25/2022	ND	4.0000		
Silver, total	ug/L	MW-17	04/03/2023	ND	4.0000		
Silver, total	ug/L	MW-17	10/16/2023	ND	4.0000		
Silver, total	ug/L	MW-17	04/22/2024	ND	4.0000		
Thallium, total	ug/L	MW-17	10/24/2014	ND	0.0325		*
Thallium, total	ug/L	MW-17	04/07/2015	ND	1.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/20/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/11/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/12/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/13/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/25/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/11/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/16/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/17/2019	ND	2.0000		
Thallium, total	ug/L	MW-17	10/15/2019	ND	2.0000		
Thallium, total	ug/L	MW-17	04/06/2020	ND	2.0000		
Thallium, total	ug/L	MW-17	10/13/2020	ND	2.0000		
Thallium, total	ug/L	MW-17	04/12/2021	ND	2.0000		
Thallium, total	ug/L	MW-17	10/06/2021	ND	2.0000		
Thallium, total	ug/L	MW-17	04/14/2022	ND	2.0000		
Thallium, total	ug/L	MW-17	10/25/2022	ND	2.0000		
Thallium, total	ug/L	MW-17	04/03/2023	ND	2.0000		
Thallium, total	ug/L	MW-17	10/16/2023	ND	2.0000		
Thallium, total	ug/L	MW-17	04/22/2024	ND	2.0000		
Vanadium, total	ug/L	MW-17	10/24/2014	ND	0.4490		*
Vanadium, total	ug/L	MW-17	04/07/2015	ND	0.4490		*
Vanadium, total	ug/L	MW-17	10/20/2015	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/11/2016	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/12/2016	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/25/2017	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/11/2018	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/16/2018	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/17/2019	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/15/2019	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/06/2020	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/13/2020	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/12/2021	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/06/2021	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/25/2022	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/03/2023	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/16/2023	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/22/2024	ND	20.0000		
Zinc, total	ug/L	MW-17	10/24/2014	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-17	04/07/2015	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-17	10/20/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	04/11/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	10/12/2016	ND	20.0000		
Zinc, total	ug/L	MW-17	04/13/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	10/25/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	04/11/2018	ND	20.0000		
Zinc, total	ug/L	MW-17	10/16/2018		382.0000		*
Zinc, total	ug/L	MW-17	04/17/2019	ND	20.0000		
Zinc, total	ug/L	MW-17	10/15/2019	ND	20.0000		
Zinc, total	ug/L	MW-17	04/06/2020	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-17	10/13/2020	ND	20.0000		
Zinc, total	ug/L	MW-17	04/12/2021	ND	20.0000		
Zinc, total	ug/L	MW-17	10/06/2021	ND	20.0000		
Zinc, total	ug/L	MW-17	04/14/2022	ND	20.0000		
Zinc, total	ug/L	MW-17	10/25/2022	ND	20.0000		
Zinc, total	ug/L	MW-17	04/03/2023	ND	20.0000		
Zinc, total	ug/L	MW-17	10/16/2023	ND	20.0000		
Zinc, total	ug/L	MW-17	04/22/2024	ND	20.0000		
Antimony, total	ug/L	MW-21	10/24/2014	ND	0.1610		*
Antimony, total	ug/L	MW-21	04/07/2015	ND	0.1610		*
Antimony, total	ug/L	MW-21	10/20/2015	ND	2.0000		
Antimony, total	ug/L	MW-21	04/11/2016	ND	2.0000		
Antimony, total	ug/L	MW-21	10/12/2016	ND	2.0000		
Antimony, total	ug/L	MW-21	04/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-21	10/25/2017	ND	2.0000		
Antimony, total	ug/L	MW-21	04/11/2018	ND	2.0000		
Antimony, total	ug/L	MW-21	10/16/2018	ND	2.0000		
Antimony, total	ug/L	MW-21	04/17/2019	ND	2.0000		
Antimony, total	ug/L	MW-21	10/15/2019	ND	2.0000		
Antimony, total	ug/L	MW-21	04/06/2020	ND	2.0000		
Antimony, total	ug/L	MW-21	10/13/2020	ND	2.0000		
Antimony, total	ug/L	MW-21	04/12/2021	ND	2.0000		
Antimony, total	ug/L	MW-21	10/06/2021	ND	2.0000		
Antimony, total	ug/L	MW-21	04/14/2022	ND	2.0000		
Antimony, total	ug/L	MW-21	04/03/2023	ND	2.0000		
Antimony, total	ug/L	MW-21	04/22/2024	ND	2.0000		
Arsenic, total	ug/L	MW-21	10/24/2014	ND	0.9450		*
Arsenic, total	ug/L	MW-21	04/07/2015	ND	0.9450		*
Arsenic, total	ug/L	MW-21	10/20/2015	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/11/2016	ND	4.0000		
Arsenic, total	ug/L	MW-21	10/12/2016	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-21	10/25/2017	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/11/2018	ND	4.0000		
Arsenic, total	ug/L	MW-21	10/16/2018	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/17/2019	ND	4.0000		
Arsenic, total	ug/L	MW-21	10/15/2019	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/06/2020	ND	4.0000		
Arsenic, total	ug/L	MW-21	10/13/2020	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/12/2021	ND	4.0000		
Arsenic, total	ug/L	MW-21	10/06/2021	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/03/2023	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/22/2024	ND	4.0000		
Barium, total	ug/L	MW-21	10/24/2014		51.9000		
Barium, total	ug/L	MW-21	04/07/2015		48.7000		
Barium, total	ug/L	MW-21	10/20/2015		36.1000		
Barium, total	ug/L	MW-21	04/11/2016		55.9000		
Barium, total	ug/L	MW-21	10/12/2016		66.9000		
Barium, total	ug/L	MW-21	04/13/2017		49.2000		
Barium, total	ug/L	MW-21	10/25/2017		98.3000		
Barium, total	ug/L	MW-21	04/11/2018		35.3000		
Barium, total	ug/L	MW-21	10/16/2018		64.7000		
Barium, total	ug/L	MW-21	04/17/2019		85.0000		
Barium, total	ug/L	MW-21	10/15/2019		64.0000		
Barium, total	ug/L	MW-21	04/06/2020		48.7000		
Barium, total	ug/L	MW-21	10/13/2020		99.4000		
Barium, total	ug/L	MW-21	04/12/2021		38.6000		
Barium, total	ug/L	MW-21	10/06/2021		104.0000		
Barium, total	ug/L	MW-21	04/14/2022		52.1000		
Barium, total	ug/L	MW-21	04/03/2023		41.9000		
Barium, total	ug/L	MW-21	04/22/2024		45.2000		
Beryllium, total	ug/L	MW-21	10/24/2014	ND	0.0390		*
Beryllium, total	ug/L	MW-21	04/07/2015	ND	0.0390		*
Beryllium, total	ug/L	MW-21	10/20/2015	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/11/2016	ND	4.0000		
Beryllium, total	ug/L	MW-21	10/12/2016	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-21	10/25/2017	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/11/2018	ND	4.0000		
Beryllium, total	ug/L	MW-21	10/16/2018	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/17/2019	ND	4.0000		
Beryllium, total	ug/L	MW-21	10/15/2019	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/06/2020	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	
Beryllium, total	ug/L	MW-21	10/13/2020	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/12/2021	ND	4.0000		
Beryllium, total	ug/L	MW-21	10/06/2021	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/03/2023	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/22/2024	ND	4.0000		
Cadmium, total	ug/L	MW-21	10/24/2014	ND	0.1120		*
Cadmium, total	ug/L	MW-21	04/07/2015	ND	0.1120		*
Cadmium, total	ug/L	MW-21	10/20/2015	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/11/2016	ND	0.8000		
Cadmium, total	ug/L	MW-21	10/12/2016	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/13/2017	ND	0.8000		
Cadmium, total	ug/L	MW-21	10/25/2017	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/11/2018	ND	0.8000		
Cadmium, total	ug/L	MW-21	10/16/2018	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/17/2019	ND	0.8000		
Cadmium, total	ug/L	MW-21	10/15/2019	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/06/2020	ND	0.8000		
Cadmium, total	ug/L	MW-21	10/13/2020	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/12/2021	ND	0.8000		
Cadmium, total	ug/L	MW-21	10/06/2021	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/03/2023	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/22/2024	ND	0.8000		
Chromium, total	ug/L	MW-21	10/24/2014	ND	1.2400		*
Chromium, total	ug/L	MW-21	04/07/2015	ND	1.2400		*
Chromium, total	ug/L	MW-21	10/20/2015	ND	8.0000		
Chromium, total	ug/L	MW-21	04/11/2016	ND	8.0000		
Chromium, total	ug/L	MW-21	10/12/2016	ND	8.0000		
Chromium, total	ug/L	MW-21	04/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-21	10/25/2017	ND	8.0000		
Chromium, total	ug/L	MW-21	04/11/2018	ND	8.0000		
Chromium, total	ug/L	MW-21	10/16/2018	ND	8.0000		
Chromium, total	ug/L	MW-21	04/17/2019	ND	8.0000		
Chromium, total	ug/L	MW-21	10/15/2019	ND	8.0000		
Chromium, total	ug/L	MW-21	04/06/2020	ND	8.0000		
Chromium, total	ug/L	MW-21	10/13/2020	ND	8.0000		
Chromium, total	ug/L	MW-21	04/12/2021	ND	8.0000		
Chromium, total	ug/L	MW-21	10/06/2021	ND	8.0000		
Chromium, total	ug/L	MW-21	04/14/2022	ND	8.0000		
Chromium, total	ug/L	MW-21	04/03/2023	ND	8.0000		
Chromium, total	ug/L	MW-21	04/22/2024	ND	8.0000		
Cobalt, total	ug/L	MW-21	10/24/2014	ND	0.0528		*
Cobalt, total	ug/L	MW-21	04/07/2015	ND	0.0528		*
Cobalt, total	ug/L	MW-21	10/20/2015	ND	0.8000		
Cobalt, total	ug/L	MW-21	04/11/2016	ND	0.8000		
Cobalt, total	ug/L	MW-21	10/12/2016	ND	0.8000		
Cobalt, total	ug/L	MW-21	04/13/2017	ND	0.8000		
Cobalt, total	ug/L	MW-21	10/25/2017	ND	0.8000		
Cobalt, total	ug/L	MW-21	04/11/2018	ND	0.8000		
Cobalt, total	ug/L	MW-21	10/16/2018	ND	0.8000		
Cobalt, total	ug/L	MW-21	04/17/2019	ND	0.8000		
Cobalt, total	ug/L	MW-21	10/15/2019	ND	0.8000		
Cobalt, total	ug/L	MW-21	04/06/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-21	10/13/2020		0.4000		
Cobalt, total	ug/L	MW-21	04/12/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-21	10/06/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-21	04/14/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-21	04/03/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-21	04/22/2024	ND	0.4000	0.8000	**
Copper, total	ug/L	MW-21	10/24/2014	ND	0.4850		*
Copper, total	ug/L	MW-21	04/07/2015	ND	0.4850		*
Copper, total	ug/L	MW-21	10/20/2015	ND	4.0000		
Copper, total	ug/L	MW-21	04/11/2016	ND	4.0000		
Copper, total	ug/L	MW-21	10/12/2016	ND	4.0000		
Copper, total	ug/L	MW-21	04/13/2017	ND	4.0000		
Copper, total	ug/L	MW-21	10/25/2017	ND	4.0000		
Copper, total	ug/L	MW-21	04/11/2018	ND	4.0000		
Copper, total	ug/L	MW-21	10/16/2018	ND	4.0000		
Copper, total	ug/L	MW-21	04/17/2019	ND	4.0000		
Copper, total	ug/L	MW-21	10/15/2019	ND	4.0000		
Copper, total	ug/L	MW-21	04/06/2020	ND	4.0000		
Copper, total	ug/L	MW-21	10/13/2020	ND	4.0000		
Copper, total	ug/L	MW-21	04/12/2021	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	
Copper, total	ug/L	MW-21	10/06/2021	ND	4.0000		
Copper, total	ug/L	MW-21	04/14/2022	ND	4.0000		
Copper, total	ug/L	MW-21	04/03/2023	ND	4.0000		
Copper, total	ug/L	MW-21	04/22/2024	ND	4.0000		
Lead, total	ug/L	MW-21	10/24/2014	ND	0.0967		*
Lead, total	ug/L	MW-21	04/07/2015	ND	0.5000		*
Lead, total	ug/L	MW-21	10/20/2015	ND	4.0000		
Lead, total	ug/L	MW-21	04/11/2016	ND	4.0000		
Lead, total	ug/L	MW-21	10/12/2016	ND	4.0000		
Lead, total	ug/L	MW-21	04/13/2017	ND	4.0000		
Lead, total	ug/L	MW-21	10/25/2017	ND	4.0000		
Lead, total	ug/L	MW-21	04/11/2018	ND	4.0000		
Lead, total	ug/L	MW-21	10/16/2018	ND	4.0000		
Lead, total	ug/L	MW-21	04/17/2019	ND	4.0000		
Lead, total	ug/L	MW-21	10/15/2019	ND	4.0000		
Lead, total	ug/L	MW-21	04/06/2020	ND	4.0000		
Lead, total	ug/L	MW-21	10/13/2020	ND	4.0000		
Lead, total	ug/L	MW-21	04/12/2021	ND	4.0000		
Lead, total	ug/L	MW-21	10/06/2021	ND	4.0000		
Lead, total	ug/L	MW-21	04/14/2022	ND	4.0000		
Lead, total	ug/L	MW-21	04/03/2023	ND	4.0000		
Lead, total	ug/L	MW-21	04/22/2024	ND	4.0000		
Nickel, total	ug/L	MW-21	10/24/2014	ND	10.0000	4.0000	**
Nickel, total	ug/L	MW-21	04/07/2015	ND	0.5810		*
Nickel, total	ug/L	MW-21	10/20/2015		4.3000		
Nickel, total	ug/L	MW-21	04/11/2016	ND	4.0000		
Nickel, total	ug/L	MW-21	10/12/2016	ND	4.0000		
Nickel, total	ug/L	MW-21	04/13/2017	ND	4.0000		
Nickel, total	ug/L	MW-21	10/25/2017	ND	4.0000		
Nickel, total	ug/L	MW-21	04/11/2018	ND	4.0000		
Nickel, total	ug/L	MW-21	10/16/2018	ND	4.0000		
Nickel, total	ug/L	MW-21	04/17/2019	ND	4.0000		
Nickel, total	ug/L	MW-21	10/15/2019	ND	4.0000		
Nickel, total	ug/L	MW-21	04/06/2020	ND	4.0000		
Nickel, total	ug/L	MW-21	10/13/2020	ND	4.0000		
Nickel, total	ug/L	MW-21	04/12/2021	ND	4.0000		
Nickel, total	ug/L	MW-21	10/06/2021	ND	4.0000		
Nickel, total	ug/L	MW-21	04/14/2022	ND	4.0000		
Nickel, total	ug/L	MW-21	04/03/2023	ND	4.0000		
Nickel, total	ug/L	MW-21	04/22/2024	ND	4.0000		
Selenium, total	ug/L	MW-21	10/24/2014	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-21	04/07/2015	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-21	10/20/2015	ND	4.0000		
Selenium, total	ug/L	MW-21	04/11/2016	ND	4.0000		
Selenium, total	ug/L	MW-21	10/12/2016	ND	4.0000		
Selenium, total	ug/L	MW-21	04/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-21	10/25/2017	ND	4.0000		
Selenium, total	ug/L	MW-21	04/11/2018	ND	4.0000		
Selenium, total	ug/L	MW-21	10/16/2018	ND	4.0000		
Selenium, total	ug/L	MW-21	04/17/2019	ND	4.0000		
Selenium, total	ug/L	MW-21	10/15/2019	ND	4.0000		
Selenium, total	ug/L	MW-21	04/06/2020	ND	4.0000		
Selenium, total	ug/L	MW-21	10/13/2020	ND	4.0000		
Selenium, total	ug/L	MW-21	04/12/2021	ND	4.0000		
Selenium, total	ug/L	MW-21	10/06/2021	ND	4.0000		
Selenium, total	ug/L	MW-21	04/14/2022	ND	4.0000		
Selenium, total	ug/L	MW-21	04/03/2023	ND	4.0000		
Selenium, total	ug/L	MW-21	04/22/2024	ND	4.0000		
Silver, total	ug/L	MW-21	10/24/2014	ND	0.0420		*
Silver, total	ug/L	MW-21	04/07/2015	ND	0.0420		*
Silver, total	ug/L	MW-21	10/20/2015	ND	4.0000		
Silver, total	ug/L	MW-21	04/11/2016	ND	4.0000		
Silver, total	ug/L	MW-21	10/12/2016	ND	4.0000		
Silver, total	ug/L	MW-21	04/13/2017	ND	4.0000		
Silver, total	ug/L	MW-21	10/25/2017	ND	4.0000		
Silver, total	ug/L	MW-21	04/11/2018	ND	4.0000		
Silver, total	ug/L	MW-21	10/16/2018	ND	4.0000		
Silver, total	ug/L	MW-21	04/17/2019	ND	4.0000		
Silver, total	ug/L	MW-21	10/15/2019	ND	4.0000		
Silver, total	ug/L	MW-21	04/06/2020	ND	4.0000		
Silver, total	ug/L	MW-21	10/13/2020	ND	4.0000		
Silver, total	ug/L	MW-21	04/12/2021	ND	4.0000		
Silver, total	ug/L	MW-21	10/06/2021	ND	4.0000		
Silver, total	ug/L	MW-21	04/14/2022	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-21	04/03/2023	ND	4.0000		
Silver, total	ug/L	MW-21	04/22/2024	ND	4.0000		
Thallium, total	ug/L	MW-21	10/24/2014	ND	0.0325		*
Thallium, total	ug/L	MW-21	04/07/2015	ND	0.0325		*
Thallium, total	ug/L	MW-21	10/20/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-21	04/11/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-21	10/12/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-21	04/13/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-21	10/25/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-21	04/11/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-21	10/16/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-21	04/17/2019	ND	2.0000		
Thallium, total	ug/L	MW-21	10/15/2019	ND	2.0000		
Thallium, total	ug/L	MW-21	04/06/2020	ND	2.0000		
Thallium, total	ug/L	MW-21	10/13/2020	ND	2.0000		
Thallium, total	ug/L	MW-21	04/12/2021	ND	2.0000		
Thallium, total	ug/L	MW-21	10/06/2021	ND	2.0000		
Thallium, total	ug/L	MW-21	04/14/2022	ND	2.0000		
Thallium, total	ug/L	MW-21	04/03/2023	ND	2.0000		
Thallium, total	ug/L	MW-21	04/22/2024	ND	2.0000		
Vanadium, total	ug/L	MW-21	10/24/2014	ND	0.4490		*
Vanadium, total	ug/L	MW-21	04/07/2015	ND	0.4490		*
Vanadium, total	ug/L	MW-21	10/20/2015	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/11/2016	ND	20.0000		
Vanadium, total	ug/L	MW-21	10/12/2016	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-21	10/25/2017	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/11/2018	ND	20.0000		
Vanadium, total	ug/L	MW-21	10/16/2018	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/17/2019	ND	20.0000		
Vanadium, total	ug/L	MW-21	10/15/2019	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/06/2020	ND	20.0000		
Vanadium, total	ug/L	MW-21	10/13/2020	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/12/2021	ND	20.0000		
Vanadium, total	ug/L	MW-21	10/06/2021	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/03/2023	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/22/2024	ND	20.0000		
Zinc, total	ug/L	MW-21	10/24/2014	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-21	04/07/2015	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-21	10/20/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-21	04/11/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-21	10/12/2016	ND	20.0000		
Zinc, total	ug/L	MW-21	04/13/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-21	10/25/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-21	04/11/2018		20.8000		
Zinc, total	ug/L	MW-21	10/16/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-21	04/17/2019	ND	20.0000		
Zinc, total	ug/L	MW-21	10/15/2019	ND	20.0000		
Zinc, total	ug/L	MW-21	04/06/2020	ND	20.0000		
Zinc, total	ug/L	MW-21	10/13/2020	ND	20.0000		
Zinc, total	ug/L	MW-21	04/12/2021	ND	20.0000		
Zinc, total	ug/L	MW-21	10/06/2021	ND	20.0000		
Zinc, total	ug/L	MW-21	04/14/2022	ND	20.0000		
Zinc, total	ug/L	MW-21	04/03/2023	ND	20.0000		
Zinc, total	ug/L	MW-21	04/22/2024	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-16	04/22/2024	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-16	04/22/2024	ND	4.0000		4.0000
Barium, total	ug/L	MW-16	04/22/2024		121.0000		199.5406
Beryllium, total	ug/L	MW-16	04/22/2024	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-16	04/22/2024	ND	0.8000		0.8000
Chromium, total	ug/L	MW-16	04/22/2024	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-16	04/22/2024	ND	0.4000		0.8000
Copper, total	ug/L	MW-16	04/22/2024	ND	4.0000		7.9000
Lead, total	ug/L	MW-16	04/22/2024	ND	4.0000		4.0000
Nickel, total	ug/L	MW-16	04/22/2024	ND	4.0000		4.3000
Selenium, total	ug/L	MW-16	04/22/2024	ND	4.0000		4.0000
Silver, total	ug/L	MW-16	04/22/2024	ND	4.0000		4.0000
Thallium, total	ug/L	MW-16	04/22/2024	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-16	04/22/2024	ND	20.0000		20.0000
Zinc, total	ug/L	MW-16	04/22/2024	ND	20.0000		20.8000
Antimony, total	ug/L	MW-24	04/22/2024	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-24	04/22/2024		10.8000	*	4.0000
Barium, total	ug/L	MW-24	04/22/2024		490.0000	***	199.5406
Beryllium, total	ug/L	MW-24	04/22/2024	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-24	04/22/2024	ND	0.8000		0.8000
Chromium, total	ug/L	MW-24	04/22/2024	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-24	04/22/2024		2.1000	*	0.8000
Copper, total	ug/L	MW-24	04/22/2024	ND	4.0000		7.9000
Lead, total	ug/L	MW-24	04/22/2024	ND	4.0000		4.0000
Nickel, total	ug/L	MW-24	04/22/2024		38.0000	***	4.3000
Selenium, total	ug/L	MW-24	04/22/2024	ND	4.0000		4.0000
Silver, total	ug/L	MW-24	04/22/2024	ND	4.0000		4.0000
Thallium, total	ug/L	MW-24	04/22/2024	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-24	04/22/2024	ND	20.0000		20.0000
Zinc, total	ug/L	MW-24	04/22/2024	ND	20.0000		20.8000
Antimony, total	ug/L	MW-25	04/22/2024	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-25	04/22/2024		5.7000	*	4.0000
Barium, total	ug/L	MW-25	04/22/2024		48.3000		199.5406
Beryllium, total	ug/L	MW-25	04/22/2024	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-25	04/22/2024	ND	0.8000		0.8000
Chromium, total	ug/L	MW-25	04/22/2024	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-25	04/22/2024		4.7000	*	0.8000
Copper, total	ug/L	MW-25	04/22/2024	ND	4.0000		7.9000
Lead, total	ug/L	MW-25	04/22/2024	ND	4.0000		4.0000
Nickel, total	ug/L	MW-25	04/22/2024		7.9000	*	4.3000
Selenium, total	ug/L	MW-25	04/22/2024	ND	4.0000		4.0000
Silver, total	ug/L	MW-25	04/22/2024	ND	4.0000		4.0000
Thallium, total	ug/L	MW-25	04/22/2024	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-25	04/22/2024	ND	20.0000		20.0000
Zinc, total	ug/L	MW-25	04/22/2024	ND	20.0000		20.8000
Antimony, total	ug/L	MW-26	04/22/2024	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-26	04/22/2024	ND	4.0000		4.0000
Barium, total	ug/L	MW-26	04/22/2024		26.1000		199.5406
Beryllium, total	ug/L	MW-26	04/22/2024	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-26	04/22/2024	ND	0.8000		0.8000
Chromium, total	ug/L	MW-26	04/22/2024	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-26	04/22/2024		1.1000	***	0.8000
Copper, total	ug/L	MW-26	04/22/2024	ND	4.0000		7.9000
Lead, total	ug/L	MW-26	04/22/2024	ND	4.0000		4.0000
Nickel, total	ug/L	MW-26	04/22/2024	ND	4.0000	**	4.3000
Selenium, total	ug/L	MW-26	04/22/2024	ND	4.0000		4.0000
Silver, total	ug/L	MW-26	04/22/2024	ND	4.0000		4.0000
Thallium, total	ug/L	MW-26	04/22/2024	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-26	04/22/2024	ND	20.0000		20.0000
Zinc, total	ug/L	MW-26	04/22/2024	ND	20.0000		20.8000
Antimony, total	ug/L	MW-32	04/22/2024	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-32	04/22/2024	ND	4.0000	**	4.0000
Barium, total	ug/L	MW-32	04/22/2024		421.0000	***	199.5406
Beryllium, total	ug/L	MW-32	04/22/2024	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-32	04/22/2024	ND	0.8000		0.8000
Chromium, total	ug/L	MW-32	04/22/2024	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-32	04/22/2024		1.4000	*	0.8000
Copper, total	ug/L	MW-32	04/22/2024	ND	4.0000		7.9000
Lead, total	ug/L	MW-32	04/22/2024	ND	4.0000		4.0000
Nickel, total	ug/L	MW-32	04/22/2024		6.6000	*	4.3000
Selenium, total	ug/L	MW-32	04/22/2024	ND	4.0000		4.0000
Silver, total	ug/L	MW-32	04/22/2024	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-32	04/22/2024	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-32	04/22/2024	ND	20.0000		20.0000
Zinc, total	ug/L	MW-32	04/22/2024	ND	20.0000		20.8000
Antimony, total	ug/L	MW-33	04/22/2024	ND	2.0000	**	2.0000
Arsenic, total	ug/L	MW-33	04/22/2024		27.6000	***	4.0000
Barium, total	ug/L	MW-33	04/22/2024		185.0000	**	199.5406
Beryllium, total	ug/L	MW-33	04/22/2024	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-33	04/22/2024		1.8000	***	0.8000
Chromium, total	ug/L	MW-33	04/22/2024	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-33	04/22/2024		86.3000	***	0.8000
Copper, total	ug/L	MW-33	04/22/2024	ND	4.0000	**	7.9000
Lead, total	ug/L	MW-33	04/22/2024	ND	4.0000		4.0000
Nickel, total	ug/L	MW-33	04/22/2024		112.0000	***	4.3000
Selenium, total	ug/L	MW-33	04/22/2024	ND	4.0000		4.0000
Silver, total	ug/L	MW-33	04/22/2024	ND	4.0000		4.0000
Thallium, total	ug/L	MW-33	04/22/2024	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-33	04/22/2024	ND	20.0000	**	20.0000
Zinc, total	ug/L	MW-33	04/22/2024	ND	20.0000		20.8000
Antimony, total	ug/L	MW-9	04/22/2024	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-9	04/22/2024	ND	4.0000	**	4.0000
Barium, total	ug/L	MW-9	04/22/2024		394.0000	***	199.5406
Beryllium, total	ug/L	MW-9	04/22/2024	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-9	04/22/2024	ND	0.8000		0.8000
Chromium, total	ug/L	MW-9	04/22/2024	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-9	04/22/2024		1.6000	***	0.8000
Copper, total	ug/L	MW-9	04/22/2024	ND	4.0000		7.9000
Lead, total	ug/L	MW-9	04/22/2024	ND	4.0000		4.0000
Nickel, total	ug/L	MW-9	04/22/2024		5.1000	***	4.3000
Selenium, total	ug/L	MW-9	04/22/2024	ND	4.0000		4.0000
Silver, total	ug/L	MW-9	04/22/2024	ND	4.0000		4.0000
Thallium, total	ug/L	MW-9	04/22/2024	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-9	04/22/2024	ND	20.0000		20.0000
Zinc, total	ug/L	MW-9	04/22/2024	ND	20.0000		20.8000

* - 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 Detect	Upgradient N	Upgradient Proportion	Downgradient Detect	Downgradient N	Downgradient Proportion
Antimony, total	0	51	0.000	2	187	0.011
Arsenic, total	0	52	0.000	55	189	0.291
Barium, total	58	58	1.000	188	188	1.000
Beryllium, total	0	52	0.000	2	187	0.011
Cadmium, total	0	52	0.000	13	187	0.070
Chromium, total	0	52	0.000	4	187	0.021
Cobalt, total	2	54	0.037	96	191	0.503
Copper, total	3	54	0.056	24	187	0.128
Lead, total	0	51	0.000	15	187	0.080
Nickel, total	1	53	0.019	68	187	0.364
Selenium, total	0	58	0.000	4	188	0.021
Silver, total	0	52	0.000	1	187	0.005
Thallium, total	0	53	0.000	0	187	0.000
Vanadium, total	0	52	0.000	9	187	0.048
Zinc, total	4	57	0.070	34	188	0.181

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	51	0.000									nonpar
Arsenic, total	0	52	0.000									nonpar
Barium, total	58	58	1.000	1.722	0.488					2.326	normal	normal
Beryllium, total	0	52	0.000									nonpar
Cadmium, total	0	52	0.000									nonpar
Chromium, total	0	52	0.000									nonpar
Cobalt, total	2	54	0.037									nonpar
Copper, total	3	54	0.056									nonpar
Lead, total	0	51	0.000									nonpar
Nickel, total	1	53	0.019									nonpar
Selenium, total	0	58	0.000									nonpar
Silver, total	0	52	0.000									nonpar
Thallium, total	0	53	0.000									nonpar
Vanadium, total	0	52	0.000									nonpar
Zinc, total	4	57	0.070	0.905	0.646					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	51					2.0000	nonpar	***	0.99
Arsenic, total	ug/L	0	52					4.0000	nonpar	***	0.99
Barium, total	ug/L	58	58	102.6879	40.1200	0.0100	2.4141	199.5406	normal		
Beryllium, total	ug/L	0	52					4.0000	nonpar	***	0.99
Cadmium, total	ug/L	0	52					0.8000	nonpar	***	0.99
Chromium, total	ug/L	0	52					8.0000	nonpar	***	0.99
Cobalt, total	ug/L	2	54					0.8000	nonpar	***	0.99
Copper, total	ug/L	3	54					7.9000	nonpar		0.99
Lead, total	ug/L	0	51					4.0000	nonpar	***	0.99
Nickel, total	ug/L	1	53					4.3000	nonpar		0.99
Selenium, total	ug/L	0	58					4.0000	nonpar	***	0.99
Silver, total	ug/L	0	52					4.0000	nonpar	***	0.99
Thallium, total	ug/L	0	53					2.0000	nonpar	***	0.99
Vanadium, total	ug/L	0	52					20.0000	nonpar	***	0.99
Zinc, total	ug/L	4	57					20.8000	nonpar		0.99

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).
* - Insufficient Data.
** - Calculated limit raised to Manual Reporting Limit.
*** - Nonparametric limit based on ND value.
For transformed data, mean and SD in transformed units and prediction limit in original units.
All sample sizes and statistics are based on outlier free data.
For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 6

Dixon's Test Outliers
1% Significance Level

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Antimony, total	ug/L	MW-12	10/24/2014	0.1610	< 0.1610	10/24/2014-04/22/2024	20	0.5503
Antimony, total	ug/L	MW-12	04/07/2015	0.1610	< 0.1610	10/24/2014-04/22/2024	20	0.5503
Antimony, total	ug/L	MW-12	10/12/2016	6.2000		10/24/2014-04/22/2024	20	0.5381
Arsenic, total	ug/L	MW-12	10/24/2014	0.9450	< 0.9450	10/24/2014-04/22/2024	20	0.5503
Arsenic, total	ug/L	MW-12	04/07/2015	0.9450	< 0.9450	10/24/2014-04/22/2024	20	0.5503
Beryllium, total	ug/L	MW-12	10/24/2014	0.0390	< 0.0390	10/24/2014-04/22/2024	20	0.5503
Beryllium, total	ug/L	MW-12	04/07/2015	0.0390	< 0.0390	10/24/2014-04/22/2024	20	0.5503
Cadmium, total	ug/L	MW-12	10/24/2014	0.1120	< 0.1120	10/24/2014-04/22/2024	20	0.5503
Cadmium, total	ug/L	MW-12	04/07/2015	0.1120	< 0.1120	10/24/2014-04/22/2024	20	0.5503
Chromium, total	ug/L	MW-12	10/24/2014	1.2400	< 1.2400	10/24/2014-04/22/2024	20	0.5503
Chromium, total	ug/L	MW-12	04/07/2015	1.2400	< 1.2400	10/24/2014-04/22/2024	20	0.5503
Cobalt, total	ug/L	MW-12	10/24/2014	0.0528	< 0.0528	10/24/2014-04/22/2024	20	0.5503
Cobalt, total	ug/L	MW-12	04/07/2015	0.0528	< 0.0528	10/24/2014-04/22/2024	20	0.5503
Copper, total	ug/L	MW-12	04/07/2015	0.4850	< 0.4850	10/24/2014-04/22/2024	20	0.5381
Lead, total	ug/L	MW-12	10/24/2014	0.0967	< 0.0967	10/24/2014-04/22/2024	20	0.5503
Lead, total	ug/L	MW-12	04/07/2015	0.0967	< 0.0967	10/24/2014-04/22/2024	20	0.5503
Nickel, total	ug/L	MW-12	10/24/2014	1.0000	< 1.0000	10/24/2014-04/22/2024	20	0.5503
Nickel, total	ug/L	MW-12	04/07/2015	0.5810	< 0.5810	10/24/2014-04/22/2024	20	0.5503
Silver, total	ug/L	MW-12	10/24/2014	0.0420	< 0.0420	10/24/2014-04/22/2024	20	0.5503
Silver, total	ug/L	MW-12	04/07/2015	0.0420	< 0.0420	10/24/2014-04/22/2024	20	0.5503
Thallium, total	ug/L	MW-12	10/24/2014	0.0325	< 0.0325	10/24/2014-04/22/2024	20	0.5503
Thallium, total	ug/L	MW-12	04/07/2015	0.0325	< 0.0325	10/24/2014-04/22/2024	20	0.5503
Vanadium, total	ug/L	MW-12	10/24/2014	1.0000	< 1.0000	10/24/2014-04/22/2024	20	0.5503
Vanadium, total	ug/L	MW-12	04/07/2015	0.4490	< 0.4490	10/24/2014-04/22/2024	20	0.5503
Antimony, total	ug/L	MW-17	10/24/2014	0.5410	< 0.5410	10/24/2014-04/22/2024	20	0.5503
Antimony, total	ug/L	MW-17	04/07/2015	0.1610	< 0.1610	10/24/2014-04/22/2024	20	0.5503
Arsenic, total	ug/L	MW-17	10/24/2014	0.9450	< 0.9450	10/24/2014-04/22/2024	20	0.5503
Arsenic, total	ug/L	MW-17	04/07/2015	0.9450	< 0.9450	10/24/2014-04/22/2024	20	0.5503
Beryllium, total	ug/L	MW-17	10/24/2014	0.0390	< 0.0390	10/24/2014-04/22/2024	20	0.5503
Beryllium, total	ug/L	MW-17	04/07/2015	0.0390	< 0.0390	10/24/2014-04/22/2024	20	0.5503
Cadmium, total	ug/L	MW-17	10/24/2014	0.1120	< 0.1120	10/24/2014-04/22/2024	20	0.5503
Cadmium, total	ug/L	MW-17	04/07/2015	0.1120	< 0.1120	10/24/2014-04/22/2024	20	0.5503
Chromium, total	ug/L	MW-17	10/24/2014	1.2400	< 1.2400	10/24/2014-04/22/2024	20	0.5503
Chromium, total	ug/L	MW-17	04/07/2015	1.2400	< 1.2400	10/24/2014-04/22/2024	20	0.5503
Copper, total	ug/L	MW-17	04/07/2015	0.4850	< 0.4850	10/24/2014-04/22/2024	20	0.5381
Lead, total	ug/L	MW-17	10/24/2014	0.5000	< 0.5000	10/24/2014-04/22/2024	19	0.5643
Lead, total	ug/L	MW-17	04/07/2015	0.5000	< 0.5000	10/24/2014-04/22/2024	19	0.5643
Nickel, total	ug/L	MW-17	10/24/2014	1.0000	< 1.0000	10/24/2014-04/22/2024	20	0.5503
Nickel, total	ug/L	MW-17	04/07/2015	0.5810	< 0.5810	10/24/2014-04/22/2024	20	0.5503
Silver, total	ug/L	MW-17	10/24/2014	0.0420	< 0.0420	10/24/2014-04/22/2024	20	0.5503
Silver, total	ug/L	MW-17	04/07/2015	0.0420	< 0.0420	10/24/2014-04/22/2024	20	0.5503
Thallium, total	ug/L	MW-17	10/24/2014	0.0325	< 0.0325	10/24/2014-04/22/2024	20	0.5381
Vanadium, total	ug/L	MW-17	10/24/2014	0.4490	< 0.4490	10/24/2014-04/22/2024	20	0.5503
Vanadium, total	ug/L	MW-17	04/07/2015	0.4490	< 0.4490	10/24/2014-04/22/2024	20	0.5503
Antimony, total	ug/L	MW-21	10/24/2014	0.1610	< 0.1610	10/24/2014-04/22/2024	18	0.5798
Antimony, total	ug/L	MW-21	04/07/2015	0.1610	< 0.1610	10/24/2014-04/22/2024	18	0.5798
Arsenic, total	ug/L	MW-21	10/24/2014	0.9450	< 0.9450	10/24/2014-04/22/2024	18	0.5798
Arsenic, total	ug/L	MW-21	04/07/2015	0.9450	< 0.9450	10/24/2014-04/22/2024	18	0.5798
Beryllium, total	ug/L	MW-21	10/24/2014	0.0390	< 0.0390	10/24/2014-04/22/2024	18	0.5798
Beryllium, total	ug/L	MW-21	04/07/2015	0.0390	< 0.0390	10/24/2014-04/22/2024	18	0.5798
Cadmium, total	ug/L	MW-21	10/24/2014	0.1120	< 0.1120	10/24/2014-04/22/2024	18	0.5798
Cadmium, total	ug/L	MW-21	04/07/2015	0.1120	< 0.1120	10/24/2014-04/22/2024	18	0.5798
Chromium, total	ug/L	MW-21	10/24/2014	1.2400	< 1.2400	10/24/2014-04/22/2024	18	0.5798
Chromium, total	ug/L	MW-21	04/07/2015	1.2400	< 1.2400	10/24/2014-04/22/2024	18	0.5798
Cobalt, total	ug/L	MW-21	10/24/2014	0.0528	< 0.0528	10/24/2014-04/22/2024	18	0.5798
Cobalt, total	ug/L	MW-21	04/07/2015	0.0528	< 0.0528	10/24/2014-04/22/2024	18	0.5798
Copper, total	ug/L	MW-21	10/24/2014	0.4850	< 0.4850	10/24/2014-04/22/2024	18	0.5798
Copper, total	ug/L	MW-21	04/07/2015	0.4850	< 0.4850	10/24/2014-04/22/2024	18	0.5798
Lead, total	ug/L	MW-21	10/24/2014	0.0967	< 0.0967	10/24/2014-04/22/2024	18	0.5798
Lead, total	ug/L	MW-21	04/07/2015	0.5000	< 0.5000	10/24/2014-04/22/2024	18	0.5798
Nickel, total	ug/L	MW-21	04/07/2015	0.5810	< 0.5810	10/24/2014-04/22/2024	18	0.5643
Silver, total	ug/L	MW-21	10/24/2014	0.0420	< 0.0420	10/24/2014-04/22/2024	18	0.5798
Silver, total	ug/L	MW-21	04/07/2015	0.0420	< 0.0420	10/24/2014-04/22/2024	18	0.5798
Thallium, total	ug/L	MW-21	10/24/2014	0.0325	< 0.0325	10/24/2014-04/22/2024	18	0.5798
Thallium, total	ug/L	MW-21	04/07/2015	0.0325	< 0.0325	10/24/2014-04/22/2024	18	0.5798
Vanadium, total	ug/L	MW-21	10/24/2014	0.4490	< 0.4490	10/24/2014-04/22/2024	18	0.5798
Vanadium, total	ug/L	MW-21	04/07/2015	0.4490	< 0.4490	10/24/2014-04/22/2024	18	0.5798

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-24	02/18/2011		16.2000	*	4.0000
Arsenic, total	ug/L	MW-24	04/14/2011		15.8000	*	4.0000
Arsenic, total	ug/L	MW-24	06/21/2011		16.0000	*	4.0000
Arsenic, total	ug/L	MW-24	12/29/2011		11.6000	*	4.0000
Arsenic, total	ug/L	MW-24	05/05/2014		11.1000	*	4.0000
Arsenic, total	ug/L	MW-24	10/29/2014		13.5000	*	4.0000
Arsenic, total	ug/L	MW-24	04/28/2015		10.7000	*	4.0000
Arsenic, total	ug/L	MW-24	10/21/2015		12.4000	*	4.0000
Arsenic, total	ug/L	MW-24	04/11/2016	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-24	10/11/2016		4.5000	*	4.0000
Arsenic, total	ug/L	MW-24	04/12/2017	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-24	10/26/2017		18.6000	*	4.0000
Arsenic, total	ug/L	MW-24	04/11/2018		6.2000	*	4.0000
Arsenic, total	ug/L	MW-24	10/16/2018	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-24	04/18/2019	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-24	10/15/2019	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-24	04/06/2020	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-24	10/13/2020		13.4000	*	4.0000
Arsenic, total	ug/L	MW-24	04/12/2021	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-24	10/06/2021		12.1000	*	4.0000
Arsenic, total	ug/L	MW-24	04/14/2022	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-24	10/25/2022		16.0000	*	4.0000
Arsenic, total	ug/L	MW-24	04/03/2023	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-24	04/22/2024		10.8000	*	4.0000
Barium, total	ug/L	MW-24	02/18/2011		461.0000	*	199.5406
Barium, total	ug/L	MW-24	04/14/2011		476.0000	*	199.5406
Barium, total	ug/L	MW-24	06/21/2011		413.0000	*	199.5406
Barium, total	ug/L	MW-24	12/29/2011		529.0000	*	199.5406
Barium, total	ug/L	MW-24	05/05/2014		507.0000	*	199.5406
Barium, total	ug/L	MW-24	10/29/2014		532.0000	*	199.5406
Barium, total	ug/L	MW-24	04/28/2015		559.0000	*	199.5406
Barium, total	ug/L	MW-24	10/21/2015		517.0000	*	199.5406
Barium, total	ug/L	MW-24	04/11/2016		505.0000	*	199.5406
Barium, total	ug/L	MW-24	10/11/2016		490.0000	*	199.5406
Barium, total	ug/L	MW-24	04/12/2017		434.0000	*	199.5406
Barium, total	ug/L	MW-24	10/26/2017		519.0000	*	199.5406
Barium, total	ug/L	MW-24	04/11/2018		398.0000	*	199.5406
Barium, total	ug/L	MW-24	10/16/2018		371.0000	*	199.5406
Barium, total	ug/L	MW-24	04/18/2019		371.0000	*	199.5406
Barium, total	ug/L	MW-24	10/15/2019		446.0000	*	199.5406
Barium, total	ug/L	MW-24	04/06/2020		531.0000	*	199.5406
Barium, total	ug/L	MW-24	10/13/2020		491.0000	*	199.5406
Barium, total	ug/L	MW-24	04/12/2021		337.0000	*	199.5406
Barium, total	ug/L	MW-24	10/06/2021		466.0000	*	199.5406
Barium, total	ug/L	MW-24	04/14/2022		350.0000	*	199.5406
Barium, total	ug/L	MW-24	10/25/2022		529.0000	*	199.5406
Barium, total	ug/L	MW-24	04/03/2023		389.0000	*	199.5406
Barium, total	ug/L	MW-24	04/22/2024		490.0000	*	199.5406
Cobalt, total	ug/L	MW-24	02/18/2011	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-24	04/14/2011	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-24	06/21/2011	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-24	12/29/2011	ND	10.0000		0.8000
Cobalt, total	ug/L	MW-24	05/05/2014		2.9300	*	0.8000
Cobalt, total	ug/L	MW-24	10/29/2014		2.7100	*	0.8000
Cobalt, total	ug/L	MW-24	04/28/2015		3.4700	*	0.8000
Cobalt, total	ug/L	MW-24	10/21/2015		4.2000	*	0.8000
Cobalt, total	ug/L	MW-24	04/11/2016		4.2000	*	0.8000
Cobalt, total	ug/L	MW-24	10/11/2016		2.8000	*	0.8000
Cobalt, total	ug/L	MW-24	04/12/2017		3.1000	*	0.8000
Cobalt, total	ug/L	MW-24	10/26/2017		2.4000	*	0.8000
Cobalt, total	ug/L	MW-24	04/11/2018		1.8000	*	0.8000
Cobalt, total	ug/L	MW-24	10/16/2018		1.0000	*	0.8000
Cobalt, total	ug/L	MW-24	04/18/2019		2.2000	*	0.8000
Cobalt, total	ug/L	MW-24	10/15/2019		1.2000	*	0.8000
Cobalt, total	ug/L	MW-24	04/06/2020		2.5000	*	0.8000
Cobalt, total	ug/L	MW-24	10/13/2020		1.4000	*	0.8000
Cobalt, total	ug/L	MW-24	04/12/2021		1.8000	*	0.8000
Cobalt, total	ug/L	MW-24	10/06/2021		1.5000	*	0.8000
Cobalt, total	ug/L	MW-24	04/14/2022		1.5000	*	0.8000
Cobalt, total	ug/L	MW-24	10/25/2022		0.8000		0.8000
Cobalt, total	ug/L	MW-24	04/03/2023		0.8000		0.8000

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

Table 8

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

Constituent	Units	Well	Date		Result		Pred. Limit
Cobalt, total	ug/L	MW-24	04/22/2024		2.1000	*	0.8000
Nickel, total	ug/L	MW-24	02/18/2011	ND	50.0000		4.3000
Nickel, total	ug/L	MW-24	04/14/2011	ND	50.0000		4.3000
Nickel, total	ug/L	MW-24	06/21/2011	ND	50.0000		4.3000
Nickel, total	ug/L	MW-24	12/29/2011	ND	10.0000		4.3000
Nickel, total	ug/L	MW-24	05/05/2014		25.0000	*	4.3000
Nickel, total	ug/L	MW-24	10/29/2014		25.3000	*	4.3000
Nickel, total	ug/L	MW-24	04/28/2015		33.6000	*	4.3000
Nickel, total	ug/L	MW-24	10/21/2015		32.0000	*	4.3000
Nickel, total	ug/L	MW-24	04/11/2016		26.1000	*	4.3000
Nickel, total	ug/L	MW-24	10/11/2016		27.9000	*	4.3000
Nickel, total	ug/L	MW-24	04/12/2017		23.1000	*	4.3000
Nickel, total	ug/L	MW-24	10/26/2017		31.6000	*	4.3000
Nickel, total	ug/L	MW-24	04/11/2018		25.9000	*	4.3000
Nickel, total	ug/L	MW-24	10/16/2018		18.3000	*	4.3000
Nickel, total	ug/L	MW-24	04/18/2019		18.8000	*	4.3000
Nickel, total	ug/L	MW-24	10/15/2019		29.0000	*	4.3000
Nickel, total	ug/L	MW-24	04/06/2020		32.5000	*	4.3000
Nickel, total	ug/L	MW-24	10/13/2020		35.0000	*	4.3000
Nickel, total	ug/L	MW-24	04/12/2021		21.1000	*	4.3000
Nickel, total	ug/L	MW-24	10/06/2021		35.5000	*	4.3000
Nickel, total	ug/L	MW-24	04/14/2022		24.5000	*	4.3000
Nickel, total	ug/L	MW-24	10/25/2022		40.0000	*	4.3000
Nickel, total	ug/L	MW-24	04/03/2023		27.6000	*	4.3000
Nickel, total	ug/L	MW-24	04/22/2024		38.0000	*	4.3000
Arsenic, total	ug/L	MW-25	02/18/2011	ND	1.0000		4.0000
Arsenic, total	ug/L	MW-25	04/12/2011	ND	3.0000		4.0000
Arsenic, total	ug/L	MW-25	06/21/2011	ND	2.0000		4.0000
Arsenic, total	ug/L	MW-25	08/22/2011	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/10/2011		1.8400		4.0000
Arsenic, total	ug/L	MW-25	12/29/2011	ND	0.6000		4.0000
Arsenic, total	ug/L	MW-25	02/07/2012		2.9200		4.0000
Arsenic, total	ug/L	MW-25	04/18/2012	ND	0.2160		4.0000
Arsenic, total	ug/L	MW-25	08/23/2012		1.3600		4.0000
Arsenic, total	ug/L	MW-25	10/10/2012	ND	0.1850		4.0000
Arsenic, total	ug/L	MW-25	04/23/2013	ND	5.4400		4.0000
Arsenic, total	ug/L	MW-25	10/28/2013		1.2200		4.0000
Arsenic, total	ug/L	MW-25	04/25/2014	ND	0.3300		4.0000
Arsenic, total	ug/L	MW-25	10/28/2014	ND	0.9450		4.0000
Arsenic, total	ug/L	MW-25	04/28/2015	ND	0.9450		4.0000
Arsenic, total	ug/L	MW-25	10/20/2015	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/11/2016	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/12/2016	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/12/2017	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/26/2017	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/11/2018	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/16/2018	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/17/2019	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/15/2019	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/06/2020	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/14/2020	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/12/2021	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/06/2021	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/14/2022	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/25/2022	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/03/2023	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/16/2023	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/22/2024		5.7000	*	4.0000
Cobalt, total	ug/L	MW-25	02/18/2011	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-25	04/12/2011	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-25	06/21/2011	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-25	08/22/2011	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-25	10/10/2011	ND	1.5500		0.8000
Cobalt, total	ug/L	MW-25	12/29/2011	ND	1.5500		0.8000
Cobalt, total	ug/L	MW-25	02/07/2012		1.9600	*	0.8000
Cobalt, total	ug/L	MW-25	04/18/2012	ND	1.5500		0.8000
Cobalt, total	ug/L	MW-25	08/23/2012		0.8700	*	0.8000
Cobalt, total	ug/L	MW-25	10/10/2012	ND	1.5500		0.8000
Cobalt, total	ug/L	MW-25	04/23/2013	ND	0.5540		0.8000
Cobalt, total	ug/L	MW-25	10/28/2013		2.5500	*	0.8000
Cobalt, total	ug/L	MW-25	04/25/2014	ND	10.0000		0.8000

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

Table 8

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

Constituent	Units	Well	Date		Result		Pred. Limit
Cobalt, total	ug/L	MW-25	10/28/2014		1.2800	*	0.8000
Cobalt, total	ug/L	MW-25	04/28/2015		1.0900	*	0.8000
Cobalt, total	ug/L	MW-25	10/20/2015		1.5000	*	0.8000
Cobalt, total	ug/L	MW-25	04/11/2016		3.4000	*	0.8000
Cobalt, total	ug/L	MW-25	10/12/2016		4.3000	*	0.8000
Cobalt, total	ug/L	MW-25	04/12/2017		0.9000	*	0.8000
Cobalt, total	ug/L	MW-25	10/26/2017		2.6000	*	0.8000
Cobalt, total	ug/L	MW-25	04/11/2018		0.8000		0.8000
Cobalt, total	ug/L	MW-25	10/16/2018		1.9000	*	0.8000
Cobalt, total	ug/L	MW-25	04/17/2019		1.5000	*	0.8000
Cobalt, total	ug/L	MW-25	10/15/2019		2.0000	*	0.8000
Cobalt, total	ug/L	MW-25	04/06/2020		0.8000		0.8000
Cobalt, total	ug/L	MW-25	10/14/2020		1.8000	*	0.8000
Cobalt, total	ug/L	MW-25	04/12/2021		2.1000	*	0.8000
Cobalt, total	ug/L	MW-25	10/06/2021		1.3000	*	0.8000
Cobalt, total	ug/L	MW-25	04/14/2022		0.7000		0.8000
Cobalt, total	ug/L	MW-25	10/25/2022		4.7000	*	0.8000
Cobalt, total	ug/L	MW-25	04/03/2023		0.6000		0.8000
Cobalt, total	ug/L	MW-25	10/16/2023	ND	0.4000		0.8000
Cobalt, total	ug/L	MW-25	04/22/2024		4.7000	*	0.8000
Nickel, total	ug/L	MW-25	02/18/2011	ND	50.0000		4.3000
Nickel, total	ug/L	MW-25	04/12/2011	ND	50.0000		4.3000
Nickel, total	ug/L	MW-25	06/21/2011	ND	50.0000		4.3000
Nickel, total	ug/L	MW-25	08/22/2011	ND	50.0000		4.3000
Nickel, total	ug/L	MW-25	10/10/2011	ND	2.5800		4.3000
Nickel, total	ug/L	MW-25	12/29/2011	ND	10.0000		4.3000
Nickel, total	ug/L	MW-25	02/07/2012		7.5600	*	4.3000
Nickel, total	ug/L	MW-25	04/18/2012	ND	10.0000		4.3000
Nickel, total	ug/L	MW-25	08/23/2012		4.2500		4.3000
Nickel, total	ug/L	MW-25	10/10/2012	ND	2.5800		4.3000
Nickel, total	ug/L	MW-25	04/23/2013		6.5000	*	4.3000
Nickel, total	ug/L	MW-25	10/28/2013		6.0300	*	4.3000
Nickel, total	ug/L	MW-25	04/25/2014		3.5300		4.3000
Nickel, total	ug/L	MW-25	10/28/2014	ND	10.0000		4.3000
Nickel, total	ug/L	MW-25	04/28/2015	ND	10.0000		4.3000
Nickel, total	ug/L	MW-25	10/20/2015	ND	4.0000		4.3000
Nickel, total	ug/L	MW-25	04/11/2016	ND	4.0000		4.3000
Nickel, total	ug/L	MW-25	10/12/2016	ND	4.0000		4.3000
Nickel, total	ug/L	MW-25	04/12/2017	ND	4.0000		4.3000
Nickel, total	ug/L	MW-25	10/26/2017		117.0000	*	4.3000
Nickel, total	ug/L	MW-25	04/11/2018	ND	4.0000		4.3000
Nickel, total	ug/L	MW-25	10/16/2018		4.2000		4.3000
Nickel, total	ug/L	MW-25	04/17/2019	ND	4.0000		4.3000
Nickel, total	ug/L	MW-25	10/15/2019	ND	4.0000		4.3000
Nickel, total	ug/L	MW-25	04/06/2020	ND	4.0000		4.3000
Nickel, total	ug/L	MW-25	10/14/2020	ND	4.0000		4.3000
Nickel, total	ug/L	MW-25	04/12/2021	ND	4.0000		4.3000
Nickel, total	ug/L	MW-25	10/06/2021	ND	4.0000		4.3000
Nickel, total	ug/L	MW-25	04/14/2022	ND	4.0000		4.3000
Nickel, total	ug/L	MW-25	10/25/2022	ND	4.0000		4.3000
Nickel, total	ug/L	MW-25	04/03/2023	ND	4.0000		4.3000
Nickel, total	ug/L	MW-25	10/16/2023	ND	4.0000		4.3000
Nickel, total	ug/L	MW-25	04/22/2024		7.9000	*	4.3000
Cobalt, total	ug/L	MW-26	02/18/2011	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-26	04/12/2011	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-26	06/21/2011	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-26	08/22/2011	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-26	10/10/2011	ND	1.5500		0.8000
Cobalt, total	ug/L	MW-26	12/29/2011	ND	10.0000		0.8000
Cobalt, total	ug/L	MW-26	02/07/2012		4.8600	*	0.8000
Cobalt, total	ug/L	MW-26	04/18/2012	ND	1.5500		0.8000
Cobalt, total	ug/L	MW-26	08/23/2012		2.4700	*	0.8000
Cobalt, total	ug/L	MW-26	10/10/2012	ND	10.0000		0.8000
Cobalt, total	ug/L	MW-26	04/23/2013	ND	0.5540		0.8000
Cobalt, total	ug/L	MW-26	10/28/2013		0.9430	*	0.8000
Cobalt, total	ug/L	MW-26	04/23/2014	ND	10.0000		0.8000
Cobalt, total	ug/L	MW-26	10/28/2014		16.5000	*	0.8000
Cobalt, total	ug/L	MW-26	04/28/2015	ND	0.2000		0.8000
Cobalt, total	ug/L	MW-26	10/20/2015		1.6000	*	0.8000
Cobalt, total	ug/L	MW-26	04/11/2016	ND	0.8000		0.8000
Cobalt, total	ug/L	MW-26	10/11/2016		2.9000	*	0.8000

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

Table 8

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

Constituent	Units	Well	Date		Result		Pred. Limit
Cobalt, total	ug/L	MW-26	04/13/2017	ND	0.8000		0.8000
Cobalt, total	ug/L	MW-26	10/26/2017		4.0000	*	0.8000
Cobalt, total	ug/L	MW-26	01/17/2018		3.4000	*	0.8000
Cobalt, total	ug/L	MW-26	04/11/2018		3.2000	*	0.8000
Cobalt, total	ug/L	MW-26	10/16/2018		2.1000	*	0.8000
Cobalt, total	ug/L	MW-26	04/17/2019	ND	0.8000		0.8000
Cobalt, total	ug/L	MW-26	10/15/2019		1.2000	*	0.8000
Cobalt, total	ug/L	MW-26	04/06/2020		1.0000	*	0.8000
Cobalt, total	ug/L	MW-26	10/14/2020		3.6000	*	0.8000
Cobalt, total	ug/L	MW-26	04/12/2021	ND	0.4000		0.8000
Cobalt, total	ug/L	MW-26	10/06/2021		3.6000	*	0.8000
Cobalt, total	ug/L	MW-26	04/14/2022		0.6000		0.8000
Cobalt, total	ug/L	MW-26	10/25/2022		0.9000	*	0.8000
Cobalt, total	ug/L	MW-26	04/03/2023	ND	0.4000		0.8000
Cobalt, total	ug/L	MW-26	10/16/2023		13.6000	*	0.8000
Cobalt, total	ug/L	MW-26	04/22/2024		1.1000	*	0.8000
Nickel, total	ug/L	MW-26	02/18/2011	ND	50.0000		4.3000
Nickel, total	ug/L	MW-26	04/12/2011	ND	50.0000		4.3000
Nickel, total	ug/L	MW-26	06/21/2011	ND	50.0000		4.3000
Nickel, total	ug/L	MW-26	08/22/2011	ND	50.0000		4.3000
Nickel, total	ug/L	MW-26	10/10/2011	ND	10.0000		4.3000
Nickel, total	ug/L	MW-26	12/29/2011	ND	10.0000		4.3000
Nickel, total	ug/L	MW-26	02/07/2012		13.6000	*	4.3000
Nickel, total	ug/L	MW-26	04/18/2012	ND	10.0000		4.3000
Nickel, total	ug/L	MW-26	08/23/2012		10.0000	*	4.3000
Nickel, total	ug/L	MW-26	10/10/2012	ND	10.0000		4.3000
Nickel, total	ug/L	MW-26	04/23/2013		5.8000	*	4.3000
Nickel, total	ug/L	MW-26	10/28/2013		7.4800	*	4.3000
Nickel, total	ug/L	MW-26	04/23/2014		7.5600	*	4.3000
Nickel, total	ug/L	MW-26	10/28/2014		9.6700	*	4.3000
Nickel, total	ug/L	MW-26	04/28/2015	ND	10.0000		4.3000
Nickel, total	ug/L	MW-26	10/20/2015		10.5000	*	4.3000
Nickel, total	ug/L	MW-26	04/11/2016		4.5000	*	4.3000
Nickel, total	ug/L	MW-26	10/11/2016		8.2000	*	4.3000
Nickel, total	ug/L	MW-26	04/13/2017		4.7000	*	4.3000
Nickel, total	ug/L	MW-26	10/26/2017		11.2000	*	4.3000
Nickel, total	ug/L	MW-26	04/11/2018		11.1000	*	4.3000
Nickel, total	ug/L	MW-26	10/16/2018		4.1000		4.3000
Nickel, total	ug/L	MW-26	04/17/2019	ND	4.0000		4.3000
Nickel, total	ug/L	MW-26	10/15/2019		5.0000	*	4.3000
Nickel, total	ug/L	MW-26	04/06/2020	ND	4.0000		4.3000
Nickel, total	ug/L	MW-26	10/14/2020		10.1000	*	4.3000
Nickel, total	ug/L	MW-26	04/12/2021	ND	4.0000		4.3000
Nickel, total	ug/L	MW-26	10/06/2021		7.5000	*	4.3000
Nickel, total	ug/L	MW-26	04/14/2022	ND	4.0000		4.3000
Nickel, total	ug/L	MW-26	10/25/2022		7.3000	*	4.3000
Nickel, total	ug/L	MW-26	04/03/2023	ND	4.0000		4.3000
Nickel, total	ug/L	MW-26	10/16/2023		9.3000	*	4.3000
Nickel, total	ug/L	MW-26	04/22/2024	ND	4.0000		4.3000
Arsenic, total	ug/L	MW-32	04/11/2018	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	10/16/2018	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	04/18/2019	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	10/16/2019	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	04/06/2020	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	10/13/2020	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	04/12/2021		5.5000	*	4.0000
Arsenic, total	ug/L	MW-32	07/01/2021	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	10/06/2021	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	04/14/2022	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	10/25/2022	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	04/03/2023	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	10/16/2023		8.9000	*	4.0000
Arsenic, total	ug/L	MW-32	04/22/2024	ND	4.0000		4.0000
Barium, total	ug/L	MW-32	04/11/2018		247.0000	*	199.5406
Barium, total	ug/L	MW-32	10/16/2018		199.0000		199.5406
Barium, total	ug/L	MW-32	04/18/2019		238.0000	*	199.5406
Barium, total	ug/L	MW-32	10/16/2019		199.0000		199.5406
Barium, total	ug/L	MW-32	04/06/2020		205.0000	*	199.5406
Barium, total	ug/L	MW-32	10/13/2020		188.0000		199.5406
Barium, total	ug/L	MW-32	04/12/2021		254.0000	*	199.5406
Barium, total	ug/L	MW-32	07/01/2021		219.0000	*	199.5406

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

Table 8

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

Constituent	Units	Well	Date		Result		Pred. Limit
Barium, total	ug/L	MW-32	10/06/2021		197.0000		199.5406
Barium, total	ug/L	MW-32	04/14/2022		206.0000	*	199.5406
Barium, total	ug/L	MW-32	10/25/2022		281.0000	*	199.5406
Barium, total	ug/L	MW-32	04/03/2023		344.0000	*	199.5406
Barium, total	ug/L	MW-32	10/16/2023		460.0000	*	199.5406
Barium, total	ug/L	MW-32	04/22/2024		421.0000	*	199.5406
Cobalt, total	ug/L	MW-32	01/17/2018		1.7000	*	0.8000
Cobalt, total	ug/L	MW-32	04/11/2018		1.0000	*	0.8000
Cobalt, total	ug/L	MW-32	10/16/2018	ND	0.8000		0.8000
Cobalt, total	ug/L	MW-32	04/18/2019		0.8000		0.8000
Cobalt, total	ug/L	MW-32	10/16/2019	ND	0.8000		0.8000
Cobalt, total	ug/L	MW-32	04/06/2020		0.7000		0.8000
Cobalt, total	ug/L	MW-32	10/13/2020	ND	0.4000		0.8000
Cobalt, total	ug/L	MW-32	04/12/2021		0.4000		0.8000
Cobalt, total	ug/L	MW-32	10/06/2021	ND	0.4000		0.8000
Cobalt, total	ug/L	MW-32	04/14/2022		0.4000		0.8000
Cobalt, total	ug/L	MW-32	10/25/2022		2.3000	*	0.8000
Cobalt, total	ug/L	MW-32	04/03/2023		0.6000		0.8000
Cobalt, total	ug/L	MW-32	10/16/2023	ND	0.4000		0.8000
Cobalt, total	ug/L	MW-32	04/22/2024		1.4000	*	0.8000
Nickel, total	ug/L	MW-32	04/11/2018	ND	4.0000		4.3000
Nickel, total	ug/L	MW-32	10/16/2018	ND	4.0000		4.3000
Nickel, total	ug/L	MW-32	04/18/2019	ND	4.0000		4.3000
Nickel, total	ug/L	MW-32	10/16/2019	ND	4.0000		4.3000
Nickel, total	ug/L	MW-32	04/06/2020	ND	4.0000		4.3000
Nickel, total	ug/L	MW-32	10/13/2020	ND	4.0000		4.3000
Nickel, total	ug/L	MW-32	04/12/2021	ND	4.0000		4.3000
Nickel, total	ug/L	MW-32	10/06/2021	ND	4.0000		4.3000
Nickel, total	ug/L	MW-32	04/14/2022	ND	4.0000		4.3000
Nickel, total	ug/L	MW-32	10/25/2022	ND	4.0000		4.3000
Nickel, total	ug/L	MW-32	04/03/2023	ND	4.0000		4.3000
Nickel, total	ug/L	MW-32	10/16/2023	ND	4.0000		4.3000
Nickel, total	ug/L	MW-32	04/22/2024		6.6000	*	4.3000
Antimony, total	ug/L	MW-33	07/02/2018	ND	2.0000		2.0000
Antimony, total	ug/L	MW-33	10/16/2018	ND	2.0000		2.0000
Antimony, total	ug/L	MW-33	04/18/2019	ND	2.0000		2.0000
Antimony, total	ug/L	MW-33	10/16/2019	ND	2.0000		2.0000
Antimony, total	ug/L	MW-33	04/06/2020	ND	2.0000		2.0000
Antimony, total	ug/L	MW-33	10/13/2020	ND	2.0000		2.0000
Antimony, total	ug/L	MW-33	04/12/2021	ND	2.0000		2.0000
Antimony, total	ug/L	MW-33	10/06/2021	ND	2.0000		2.0000
Antimony, total	ug/L	MW-33	04/14/2022	ND	2.0000		2.0000
Antimony, total	ug/L	MW-33	10/25/2022	ND	2.0000		2.0000
Antimony, total	ug/L	MW-33	04/03/2023	ND	2.0000		2.0000
Antimony, total	ug/L	MW-33	10/16/2023		2.8000	*	2.0000
Antimony, total	ug/L	MW-33	04/22/2024	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-33	01/17/2018	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-33	07/02/2018	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-33	10/16/2018	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-33	04/18/2019	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-33	10/16/2019	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-33	04/06/2020	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-33	10/13/2020	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-33	04/12/2021	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-33	10/06/2021	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-33	04/14/2022	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-33	10/25/2022	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-33	04/03/2023	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-33	10/16/2023		25.6000	*	4.0000
Arsenic, total	ug/L	MW-33	04/22/2024		27.6000	*	4.0000
Barium, total	ug/L	MW-33	07/02/2018		127.0000		199.5406
Barium, total	ug/L	MW-33	10/16/2018		107.0000		199.5406
Barium, total	ug/L	MW-33	04/18/2019		222.0000	*	199.5406
Barium, total	ug/L	MW-33	10/16/2019		140.0000		199.5406
Barium, total	ug/L	MW-33	04/06/2020		139.0000		199.5406
Barium, total	ug/L	MW-33	10/13/2020		136.0000		199.5406
Barium, total	ug/L	MW-33	04/12/2021		127.0000		199.5406
Barium, total	ug/L	MW-33	10/06/2021		103.0000		199.5406
Barium, total	ug/L	MW-33	04/14/2022		150.0000		199.5406
Barium, total	ug/L	MW-33	10/25/2022		226.0000	*	199.5406
Barium, total	ug/L	MW-33	04/03/2023		160.0000		199.5406

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

Table 8

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

Constituent	Units	Well	Date		Result		Pred. Limit
Barium, total	ug/L	MW-33	10/16/2023		972.0000	*	199.5406
Barium, total	ug/L	MW-33	04/22/2024		185.0000		199.5406
Cadmium, total	ug/L	MW-33	07/02/2018	ND	0.8000		0.8000
Cadmium, total	ug/L	MW-33	10/16/2018	ND	0.8000		0.8000
Cadmium, total	ug/L	MW-33	04/18/2019	ND	0.8000		0.8000
Cadmium, total	ug/L	MW-33	10/16/2019	ND	0.8000		0.8000
Cadmium, total	ug/L	MW-33	04/06/2020	ND	0.8000		0.8000
Cadmium, total	ug/L	MW-33	10/13/2020	ND	0.8000		0.8000
Cadmium, total	ug/L	MW-33	04/12/2021	ND	0.8000		0.8000
Cadmium, total	ug/L	MW-33	10/06/2021	ND	0.8000		0.8000
Cadmium, total	ug/L	MW-33	04/14/2022	ND	0.8000		0.8000
Cadmium, total	ug/L	MW-33	10/25/2022	ND	0.8000		0.8000
Cadmium, total	ug/L	MW-33	04/03/2023		0.9000	*	0.8000
Cadmium, total	ug/L	MW-33	10/16/2023		6.5000	*	0.8000
Cadmium, total	ug/L	MW-33	04/22/2024		1.8000	*	0.8000
Cobalt, total	ug/L	MW-33	07/02/2018	ND	0.8000		0.8000
Cobalt, total	ug/L	MW-33	10/16/2018	ND	0.8000		0.8000
Cobalt, total	ug/L	MW-33	04/18/2019		6.2000	*	0.8000
Cobalt, total	ug/L	MW-33	10/16/2019	ND	0.8000		0.8000
Cobalt, total	ug/L	MW-33	04/06/2020		2.7000	*	0.8000
Cobalt, total	ug/L	MW-33	07/01/2020	ND	0.4000		0.8000
Cobalt, total	ug/L	MW-33	10/13/2020	ND	0.4000		0.8000
Cobalt, total	ug/L	MW-33	04/12/2021	ND	0.4000		0.8000
Cobalt, total	ug/L	MW-33	10/06/2021		0.5000		0.8000
Cobalt, total	ug/L	MW-33	04/14/2022		1.9000	*	0.8000
Cobalt, total	ug/L	MW-33	07/13/2022		2.0000	*	0.8000
Cobalt, total	ug/L	MW-33	10/25/2022		16.1000	*	0.8000
Cobalt, total	ug/L	MW-33	04/03/2023		1.4000	*	0.8000
Cobalt, total	ug/L	MW-33	10/16/2023		149.0000	*	0.8000
Cobalt, total	ug/L	MW-33	04/22/2024		86.3000	*	0.8000
Copper, total	ug/L	MW-33	07/02/2018	ND	4.0000		7.9000
Copper, total	ug/L	MW-33	10/16/2018	ND	4.0000		7.9000
Copper, total	ug/L	MW-33	04/18/2019	ND	4.0000		7.9000
Copper, total	ug/L	MW-33	10/16/2019	ND	4.0000		7.9000
Copper, total	ug/L	MW-33	04/06/2020	ND	4.0000		7.9000
Copper, total	ug/L	MW-33	10/13/2020	ND	4.0000		7.9000
Copper, total	ug/L	MW-33	04/12/2021	ND	4.0000		7.9000
Copper, total	ug/L	MW-33	10/06/2021	ND	4.0000		7.9000
Copper, total	ug/L	MW-33	04/14/2022	ND	4.0000		7.9000
Copper, total	ug/L	MW-33	10/25/2022	ND	4.0000		7.9000
Copper, total	ug/L	MW-33	04/03/2023	ND	4.0000		7.9000
Copper, total	ug/L	MW-33	10/16/2023		8.3000	*	7.9000
Copper, total	ug/L	MW-33	04/22/2024	ND	4.0000		7.9000
Nickel, total	ug/L	MW-33	07/02/2018	ND	4.0000		4.3000
Nickel, total	ug/L	MW-33	10/16/2018	ND	4.0000		4.3000
Nickel, total	ug/L	MW-33	04/18/2019		7.5000	*	4.3000
Nickel, total	ug/L	MW-33	10/16/2019	ND	4.0000		4.3000
Nickel, total	ug/L	MW-33	04/06/2020		4.2000		4.3000
Nickel, total	ug/L	MW-33	10/13/2020	ND	4.0000		4.3000
Nickel, total	ug/L	MW-33	04/12/2021	ND	4.0000		4.3000
Nickel, total	ug/L	MW-33	10/06/2021	ND	4.0000		4.3000
Nickel, total	ug/L	MW-33	04/14/2022	ND	4.0000		4.3000
Nickel, total	ug/L	MW-33	10/25/2022		5.1000	*	4.3000
Nickel, total	ug/L	MW-33	04/03/2023		5.8000	*	4.3000
Nickel, total	ug/L	MW-33	10/16/2023		46.9000	*	4.3000
Nickel, total	ug/L	MW-33	04/22/2024		112.0000	*	4.3000
Vanadium, total	ug/L	MW-33	07/02/2018	ND	20.0000		20.0000
Vanadium, total	ug/L	MW-33	10/16/2018	ND	20.0000		20.0000
Vanadium, total	ug/L	MW-33	04/18/2019	ND	20.0000		20.0000
Vanadium, total	ug/L	MW-33	10/16/2019	ND	20.0000		20.0000
Vanadium, total	ug/L	MW-33	04/06/2020	ND	20.0000		20.0000
Vanadium, total	ug/L	MW-33	10/13/2020	ND	20.0000		20.0000
Vanadium, total	ug/L	MW-33	04/12/2021	ND	20.0000		20.0000
Vanadium, total	ug/L	MW-33	10/06/2021	ND	20.0000		20.0000
Vanadium, total	ug/L	MW-33	04/14/2022	ND	20.0000		20.0000
Vanadium, total	ug/L	MW-33	10/25/2022	ND	20.0000		20.0000
Vanadium, total	ug/L	MW-33	04/03/2023	ND	20.0000		20.0000
Vanadium, total	ug/L	MW-33	10/16/2023		92.7000	*	20.0000
Vanadium, total	ug/L	MW-33	04/22/2024	ND	20.0000		20.0000
Arsenic, total	ug/L	MW-9	10/17/2007		15.0000	*	4.0000
Arsenic, total	ug/L	MW-9	01/11/2008		12.7000	*	4.0000

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

Table 8

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

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic, total	ug/L	MW-9	04/10/2008		4.4300	*	4.0000
Arsenic, total	ug/L	MW-9	07/17/2008		9.9300	*	4.0000
Arsenic, total	ug/L	MW-9	10/21/2008		8.0200	*	4.0000
Arsenic, total	ug/L	MW-9	04/13/2009		4.5200	*	4.0000
Arsenic, total	ug/L	MW-9	10/14/2009		3.4000		4.0000
Arsenic, total	ug/L	MW-9	04/20/2010		4.3400	*	4.0000
Arsenic, total	ug/L	MW-9	10/13/2010		6.3100	*	4.0000
Arsenic, total	ug/L	MW-9	04/14/2011		5.2000	*	4.0000
Arsenic, total	ug/L	MW-9	10/11/2011		15.9000	*	4.0000
Arsenic, total	ug/L	MW-9	04/18/2012		6.6600	*	4.0000
Arsenic, total	ug/L	MW-9	10/11/2012		327.0000	*	4.0000
Arsenic, total	ug/L	MW-9	04/23/2013	ND	1.0000		4.0000
Arsenic, total	ug/L	MW-9	10/29/2013		4.5300	*	4.0000
Arsenic, total	ug/L	MW-9	04/23/2014		8.2700	*	4.0000
Arsenic, total	ug/L	MW-9	10/24/2014		3.3400		4.0000
Arsenic, total	ug/L	MW-9	10/20/2015	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	04/11/2016		31.9000	*	4.0000
Arsenic, total	ug/L	MW-9	10/12/2016	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	04/12/2017	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	10/25/2017	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	04/11/2018		4.1000	*	4.0000
Arsenic, total	ug/L	MW-9	10/16/2018	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	04/18/2019		14.1000	*	4.0000
Arsenic, total	ug/L	MW-9	10/16/2019	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	04/06/2020		16.8000	*	4.0000
Arsenic, total	ug/L	MW-9	10/14/2020	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	04/12/2021		11.8000	*	4.0000
Arsenic, total	ug/L	MW-9	10/06/2021	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	04/15/2022		10.7000	*	4.0000
Arsenic, total	ug/L	MW-9	10/25/2022		5.1000	*	4.0000
Arsenic, total	ug/L	MW-9	04/03/2023		4.5000	*	4.0000
Arsenic, total	ug/L	MW-9	10/16/2023		6.1000	*	4.0000
Arsenic, total	ug/L	MW-9	04/22/2024	ND	4.0000		4.0000
Barium, total	ug/L	MW-9	10/17/2007		416.0000	*	199.5406
Barium, total	ug/L	MW-9	01/11/2008		430.0000	*	199.5406
Barium, total	ug/L	MW-9	04/10/2008		421.0000	*	199.5406
Barium, total	ug/L	MW-9	07/17/2008		432.0000	*	199.5406
Barium, total	ug/L	MW-9	10/21/2008		733.0000	*	199.5406
Barium, total	ug/L	MW-9	04/13/2009		420.0000	*	199.5406
Barium, total	ug/L	MW-9	10/14/2009		344.0000	*	199.5406
Barium, total	ug/L	MW-9	04/20/2010		352.0000	*	199.5406
Barium, total	ug/L	MW-9	10/13/2010		353.0000	*	199.5406
Barium, total	ug/L	MW-9	04/14/2011		310.0000	*	199.5406
Barium, total	ug/L	MW-9	10/11/2011		418.0000	*	199.5406
Barium, total	ug/L	MW-9	04/18/2012		373.0000	*	199.5406
Barium, total	ug/L	MW-9	10/11/2012		3370.0000	*	199.5406
Barium, total	ug/L	MW-9	04/23/2013		415.0000	*	199.5406
Barium, total	ug/L	MW-9	10/29/2013		548.0000	*	199.5406
Barium, total	ug/L	MW-9	04/23/2014		525.0000	*	199.5406
Barium, total	ug/L	MW-9	10/24/2014		435.0000	*	199.5406
Barium, total	ug/L	MW-9	10/20/2015		389.0000	*	199.5406
Barium, total	ug/L	MW-9	04/11/2016		608.0000	*	199.5406
Barium, total	ug/L	MW-9	10/12/2016		296.0000	*	199.5406
Barium, total	ug/L	MW-9	04/12/2017		346.0000	*	199.5406
Barium, total	ug/L	MW-9	10/25/2017		304.0000	*	199.5406
Barium, total	ug/L	MW-9	04/11/2018		303.0000	*	199.5406
Barium, total	ug/L	MW-9	10/16/2018		605.0000	*	199.5406
Barium, total	ug/L	MW-9	04/18/2019		432.0000	*	199.5406
Barium, total	ug/L	MW-9	10/16/2019		270.0000	*	199.5406
Barium, total	ug/L	MW-9	04/06/2020		474.0000	*	199.5406
Barium, total	ug/L	MW-9	10/14/2020		281.0000	*	199.5406
Barium, total	ug/L	MW-9	04/12/2021		369.0000	*	199.5406
Barium, total	ug/L	MW-9	10/06/2021		285.0000	*	199.5406
Barium, total	ug/L	MW-9	04/15/2022		379.0000	*	199.5406
Barium, total	ug/L	MW-9	10/25/2022		353.0000	*	199.5406
Barium, total	ug/L	MW-9	04/03/2023		334.0000	*	199.5406
Barium, total	ug/L	MW-9	10/16/2023		435.0000	*	199.5406
Barium, total	ug/L	MW-9	04/22/2024		394.0000	*	199.5406
Cobalt, total	ug/L	MW-9	10/17/2007	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-9	01/11/2008	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-9	04/10/2008	ND	20.0000		0.8000

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

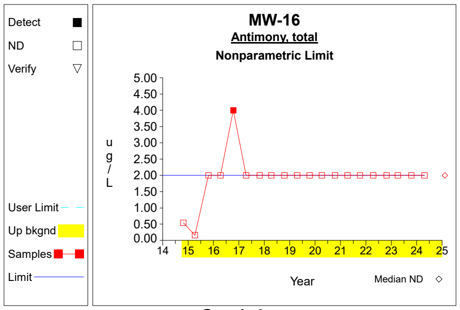
Table 8

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

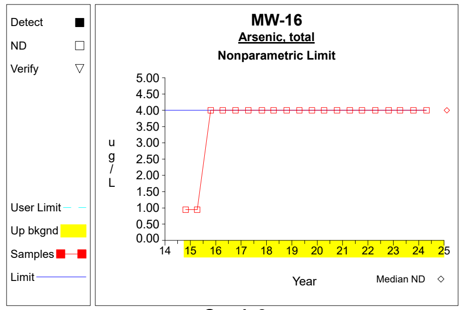
Constituent	Units	Well	Date		Result		Pred. Limit
Cobalt, total	ug/L	MW-9	07/17/2008	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-9	10/21/2008	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-9	04/13/2009	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-9	10/14/2009	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-9	04/20/2010	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-9	10/13/2010	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-9	04/14/2011	ND	20.0000		0.8000
Cobalt, total	ug/L	MW-9	10/11/2011	ND	10.0000		0.8000
Cobalt, total	ug/L	MW-9	04/18/2012	ND	10.0000		0.8000
Cobalt, total	ug/L	MW-9	10/11/2012	ND	10.0000		0.8000
Cobalt, total	ug/L	MW-9	04/23/2013	ND	10.0000		0.8000
Cobalt, total	ug/L	MW-9	10/29/2013		2.8700	*	0.8000
Cobalt, total	ug/L	MW-9	04/23/2014		4.1300	*	0.8000
Cobalt, total	ug/L	MW-9	10/24/2014		1.6500	*	0.8000
Cobalt, total	ug/L	MW-9	10/20/2015		0.9000	*	0.8000
Cobalt, total	ug/L	MW-9	04/11/2016		1.3000	*	0.8000
Cobalt, total	ug/L	MW-9	10/12/2016	ND	0.8000		0.8000
Cobalt, total	ug/L	MW-9	04/12/2017		1.1000	*	0.8000
Cobalt, total	ug/L	MW-9	10/25/2017	ND	0.8000		0.8000
Cobalt, total	ug/L	MW-9	04/11/2018		1.0000	*	0.8000
Cobalt, total	ug/L	MW-9	10/16/2018	ND	0.8000		0.8000
Cobalt, total	ug/L	MW-9	04/18/2019		0.9000	*	0.8000
Cobalt, total	ug/L	MW-9	10/16/2019	ND	0.8000		0.8000
Cobalt, total	ug/L	MW-9	04/06/2020		0.9000	*	0.8000
Cobalt, total	ug/L	MW-9	10/14/2020		0.5000		0.8000
Cobalt, total	ug/L	MW-9	04/12/2021		1.0000	*	0.8000
Cobalt, total	ug/L	MW-9	10/06/2021		0.6000		0.8000
Cobalt, total	ug/L	MW-9	04/15/2022		1.5000	*	0.8000
Cobalt, total	ug/L	MW-9	10/25/2022		0.7000		0.8000
Cobalt, total	ug/L	MW-9	04/03/2023		1.1000	*	0.8000
Cobalt, total	ug/L	MW-9	10/16/2023		1.7000	*	0.8000
Cobalt, total	ug/L	MW-9	04/22/2024		1.6000	*	0.8000
Nickel, total	ug/L	MW-9	10/17/2007	ND	50.0000		4.3000
Nickel, total	ug/L	MW-9	01/11/2008	ND	50.0000		4.3000
Nickel, total	ug/L	MW-9	04/10/2008	ND	50.0000		4.3000
Nickel, total	ug/L	MW-9	07/17/2008	ND	50.0000		4.3000
Nickel, total	ug/L	MW-9	10/21/2008	ND	50.0000		4.3000
Nickel, total	ug/L	MW-9	04/13/2009	ND	50.0000		4.3000
Nickel, total	ug/L	MW-9	10/14/2009	ND	50.0000		4.3000
Nickel, total	ug/L	MW-9	04/20/2010	ND	50.0000		4.3000
Nickel, total	ug/L	MW-9	10/13/2010	ND	50.0000		4.3000
Nickel, total	ug/L	MW-9	04/14/2011	ND	50.0000		4.3000
Nickel, total	ug/L	MW-9	10/11/2011	ND	10.0000		4.3000
Nickel, total	ug/L	MW-9	04/18/2012		9.6800	*	4.3000
Nickel, total	ug/L	MW-9	10/11/2012		196.0000	*	4.3000
Nickel, total	ug/L	MW-9	04/23/2013		8.7300	*	4.3000
Nickel, total	ug/L	MW-9	10/29/2013		16.1000	*	4.3000
Nickel, total	ug/L	MW-9	04/23/2014		14.5000	*	4.3000
Nickel, total	ug/L	MW-9	10/24/2014		7.0700	*	4.3000
Nickel, total	ug/L	MW-9	10/20/2015		4.8000	*	4.3000
Nickel, total	ug/L	MW-9	04/11/2016		5.2000	*	4.3000
Nickel, total	ug/L	MW-9	10/12/2016	ND	4.0000		4.3000
Nickel, total	ug/L	MW-9	04/12/2017		4.1000		4.3000
Nickel, total	ug/L	MW-9	10/25/2017	ND	4.0000		4.3000
Nickel, total	ug/L	MW-9	04/11/2018	ND	4.0000		4.3000
Nickel, total	ug/L	MW-9	10/16/2018		5.7000	*	4.3000
Nickel, total	ug/L	MW-9	04/18/2019	ND	4.0000		4.3000
Nickel, total	ug/L	MW-9	10/16/2019	ND	4.0000		4.3000
Nickel, total	ug/L	MW-9	04/06/2020	ND	4.0000		4.3000
Nickel, total	ug/L	MW-9	10/14/2020	ND	4.0000		4.3000
Nickel, total	ug/L	MW-9	04/12/2021	ND	4.0000		4.3000
Nickel, total	ug/L	MW-9	10/06/2021	ND	4.0000		4.3000
Nickel, total	ug/L	MW-9	04/15/2022	ND	4.0000		4.3000
Nickel, total	ug/L	MW-9	10/25/2022	ND	4.0000		4.3000
Nickel, total	ug/L	MW-9	04/03/2023	ND	4.0000		4.3000
Nickel, total	ug/L	MW-9	10/16/2023		8.4000	*	4.3000
Nickel, total	ug/L	MW-9	04/22/2024		5.1000	*	4.3000

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

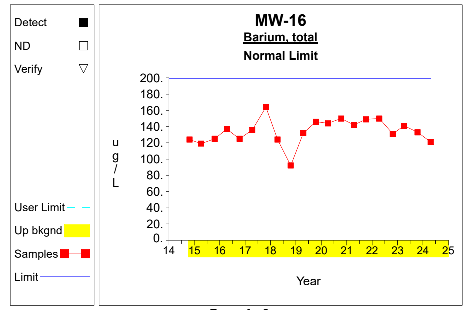
Up vs. Down Prediction Limits



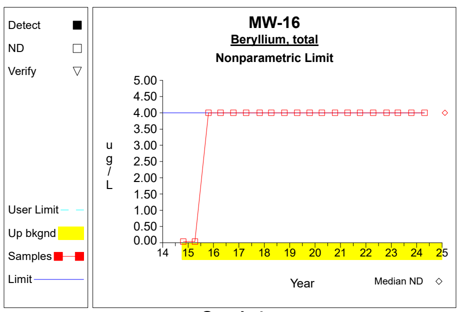
Graph 1



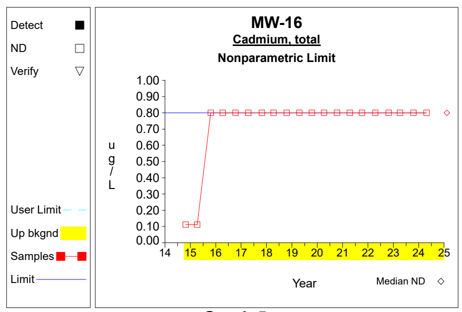
Graph 2



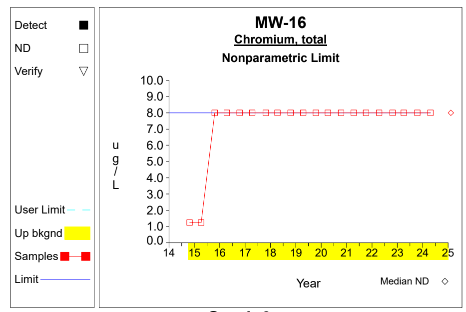
Graph 3



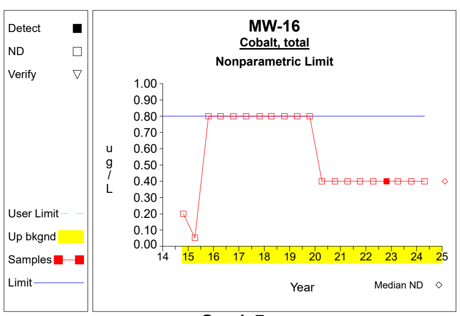
Graph 4



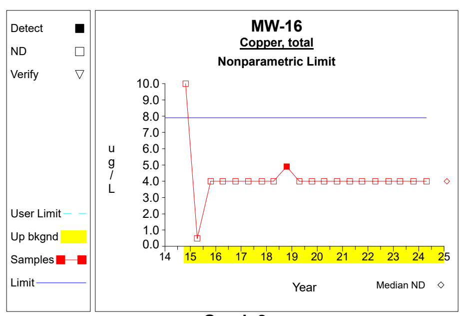
Graph 5



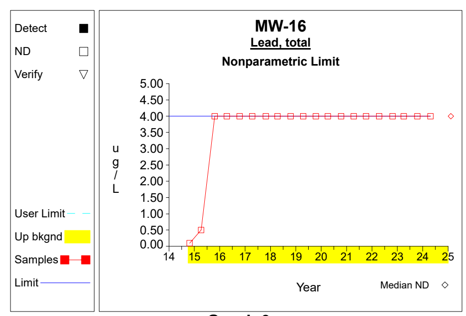
Graph 6



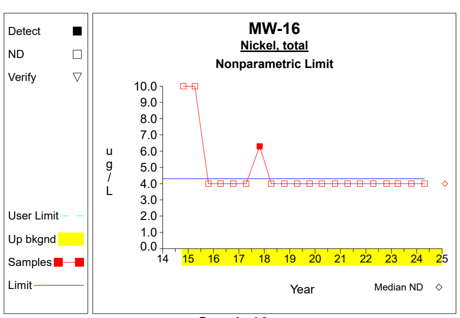
Graph 7



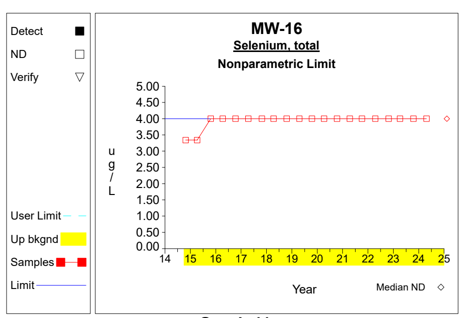
Graph 8



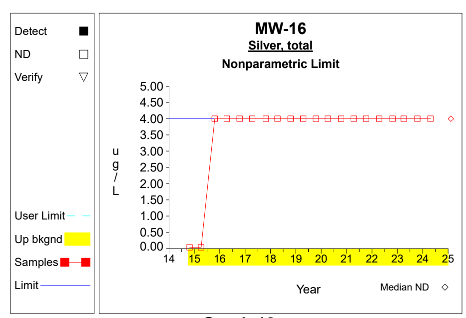
Graph 9



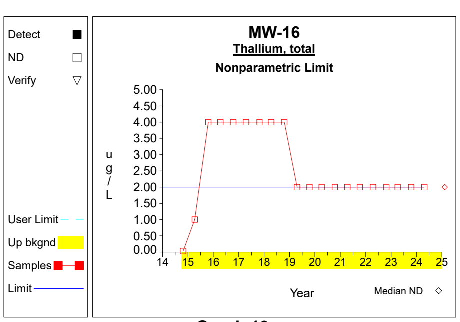
Graph 10



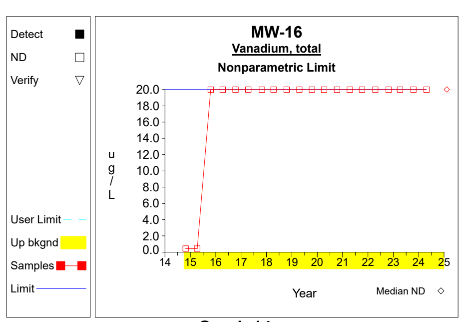
Graph 11



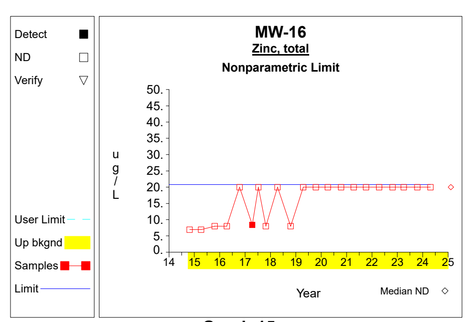
Graph 12



Graph 13

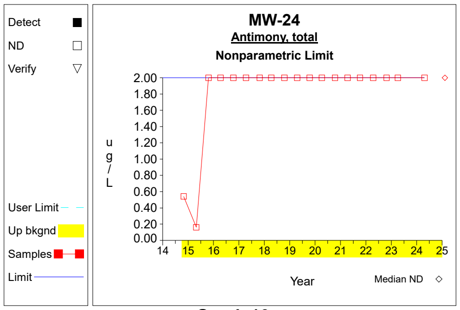


Graph 14

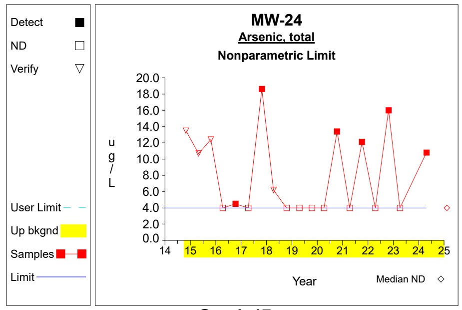


Graph 15

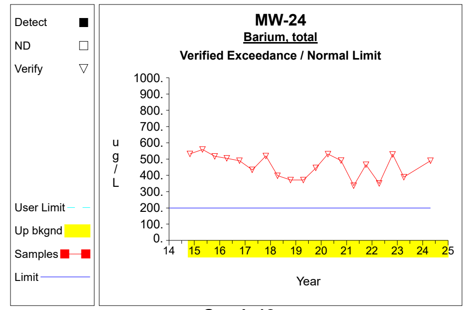
Up vs. Down Prediction Limits



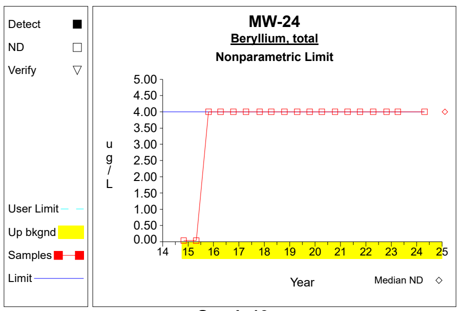
Graph 16



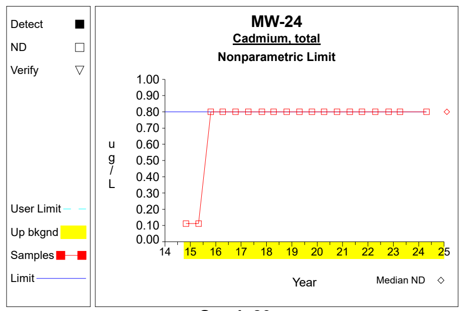
Graph 17



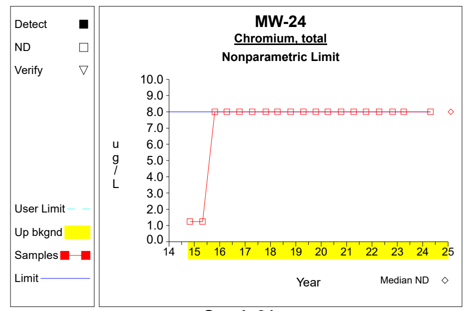
Graph 18



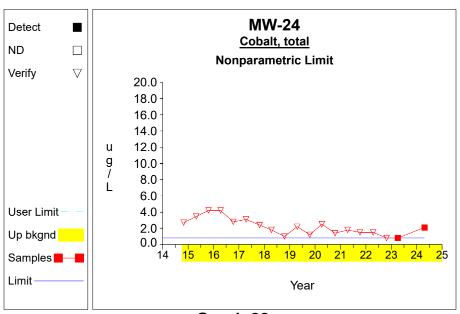
Graph 19



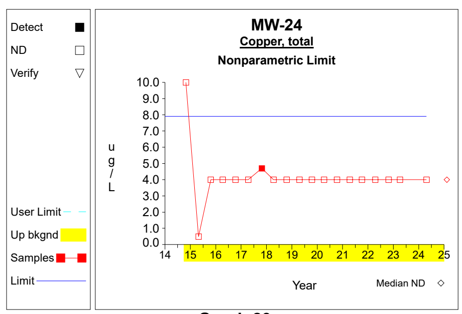
Graph 20



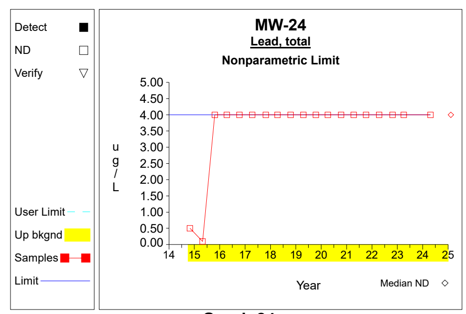
Graph 21



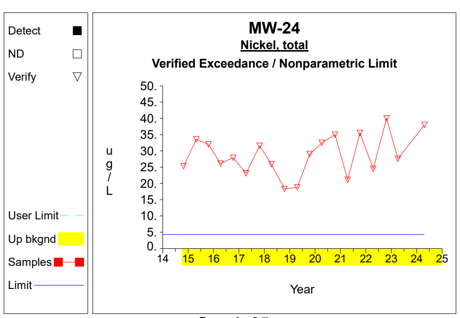
Graph 22



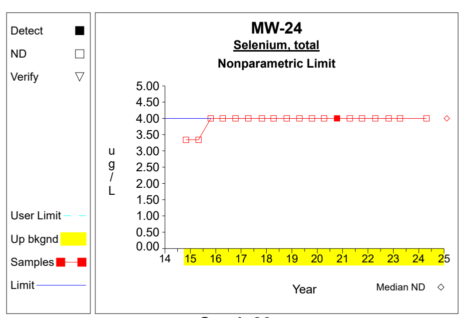
Graph 23



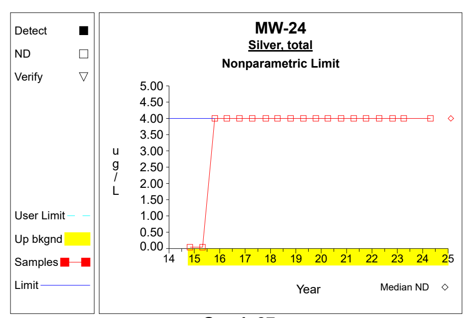
Graph 24



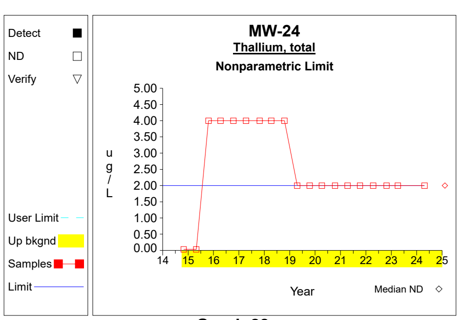
Graph 25



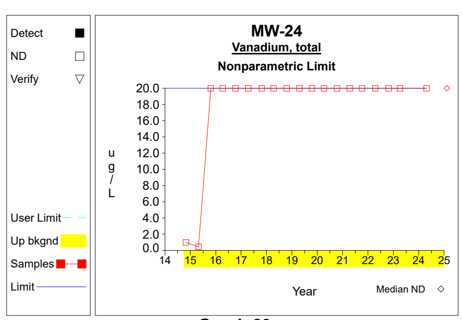
Graph 26



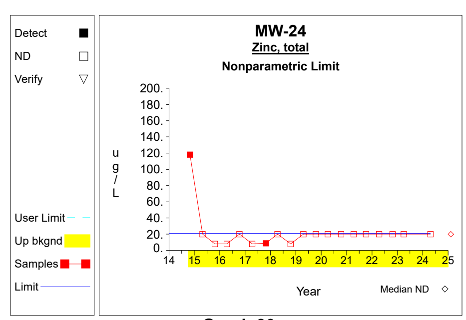
Graph 27



Graph 28



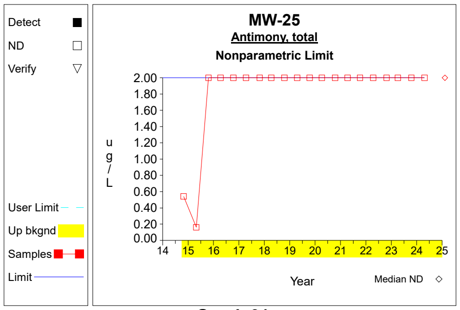
Graph 29



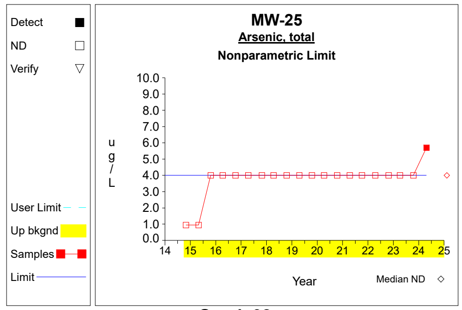
Graph 30

Prepared by: Otter Creek Environmental

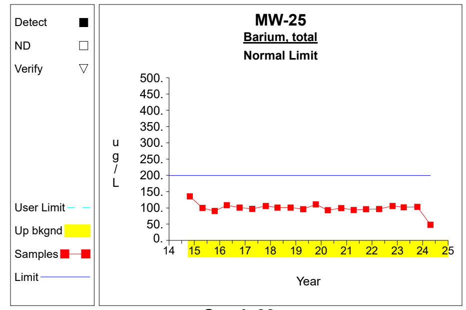
Up vs. Down Prediction Limits



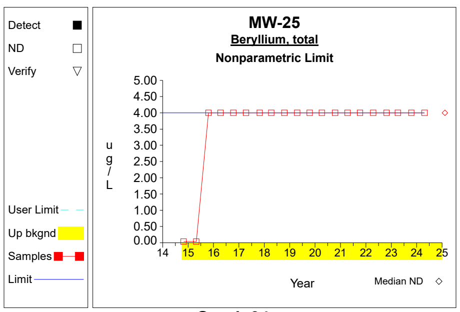
Graph 31



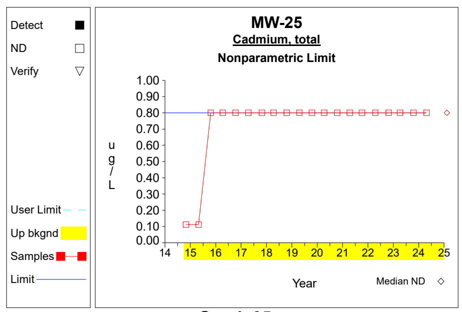
Graph 32



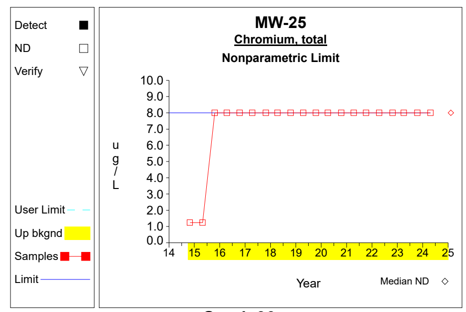
Graph 33



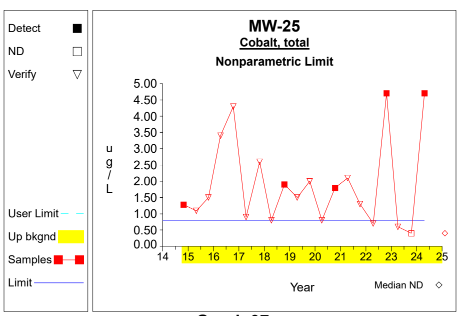
Graph 34



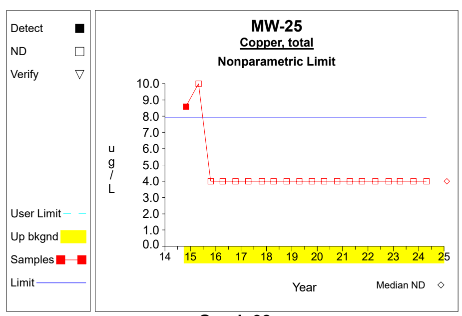
Graph 35



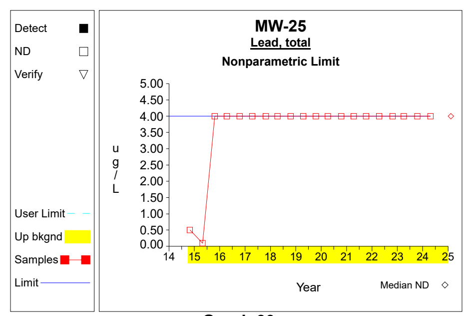
Graph 36



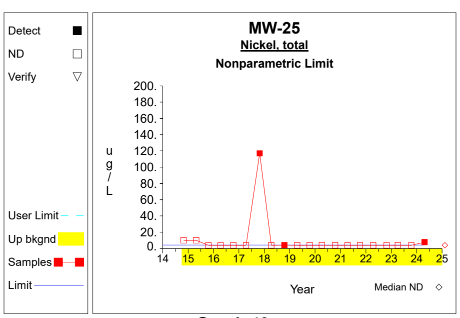
Graph 37



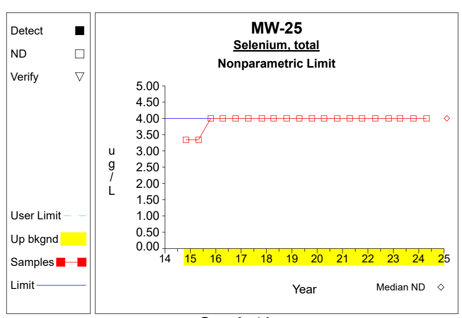
Graph 38



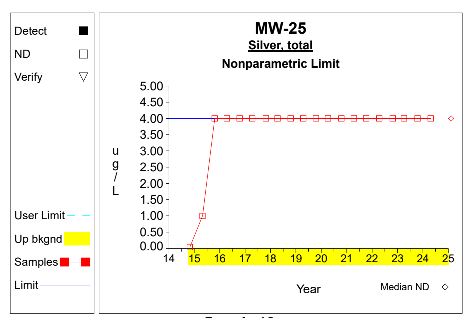
Graph 39



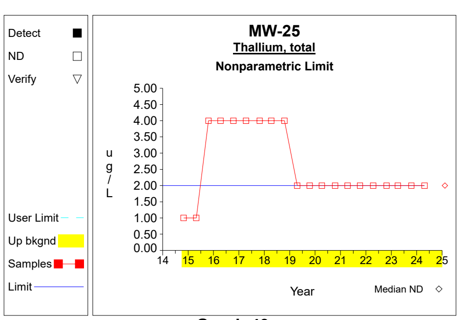
Graph 40



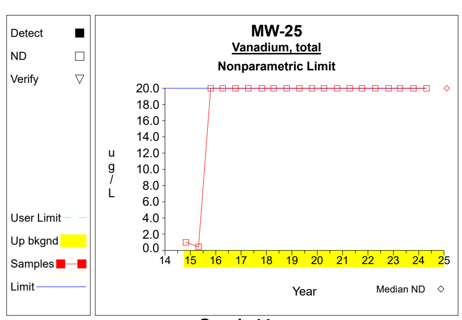
Graph 41



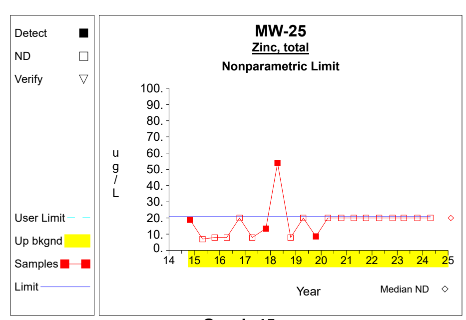
Graph 42



Graph 43



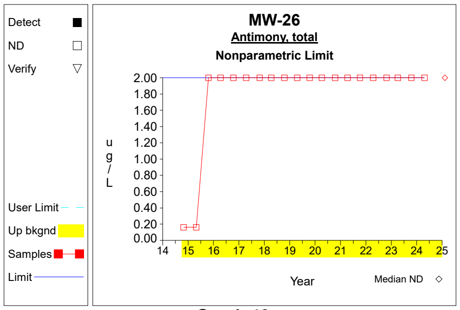
Graph 44



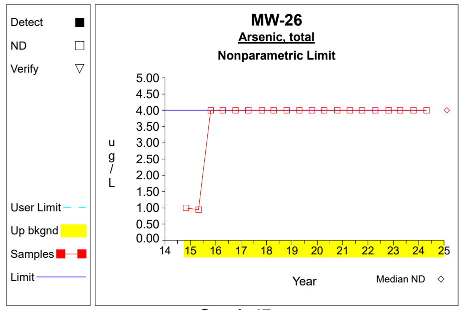
Graph 45

Prepared by: Otter Creek Environmental

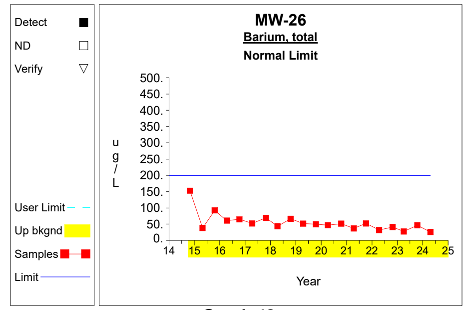
Up vs. Down Prediction Limits



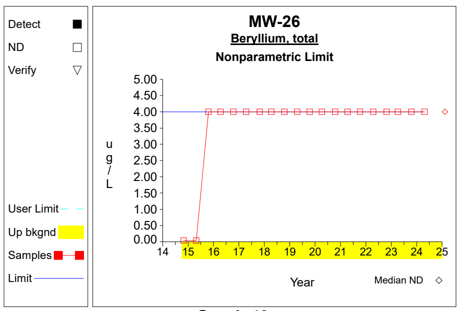
Graph 46



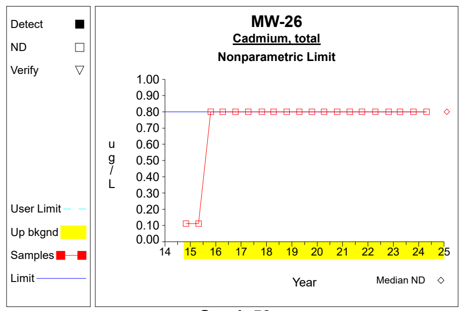
Graph 47



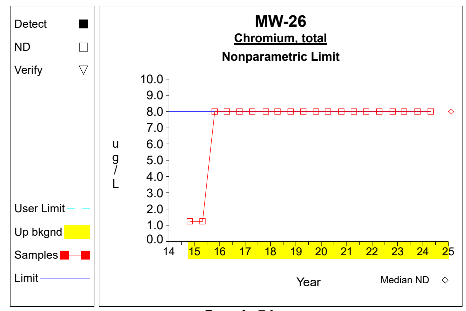
Graph 48



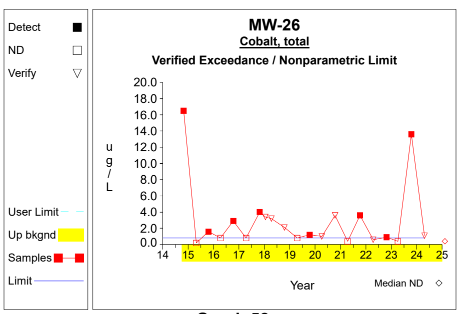
Graph 49



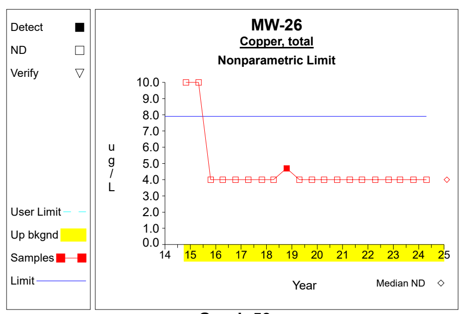
Graph 50



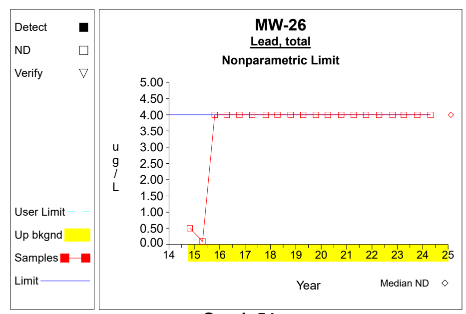
Graph 51



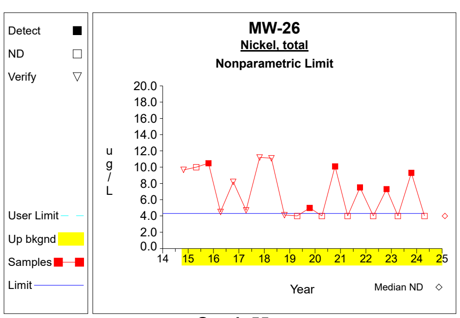
Graph 52



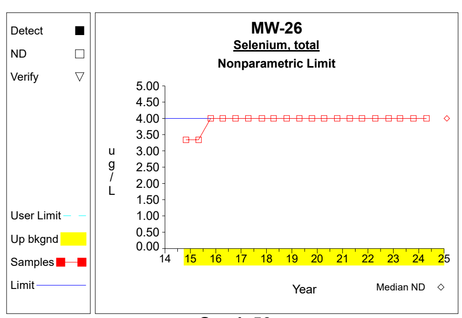
Graph 53



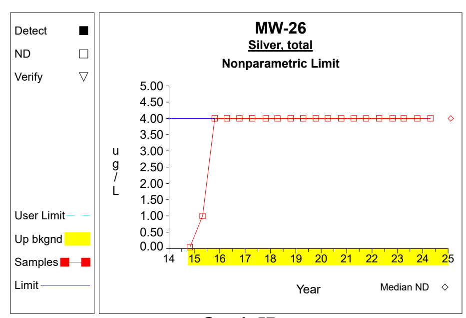
Graph 54



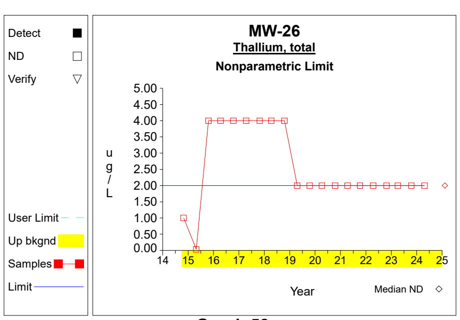
Graph 55



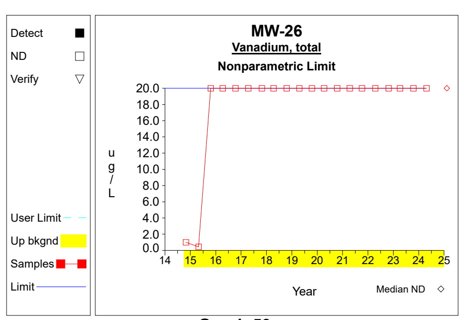
Graph 56



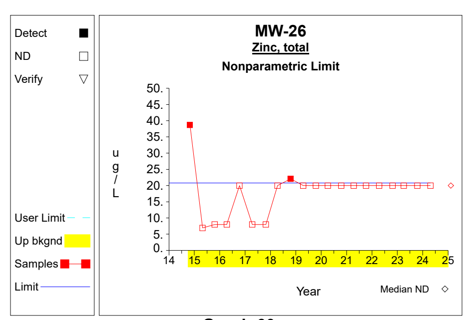
Graph 57



Graph 58

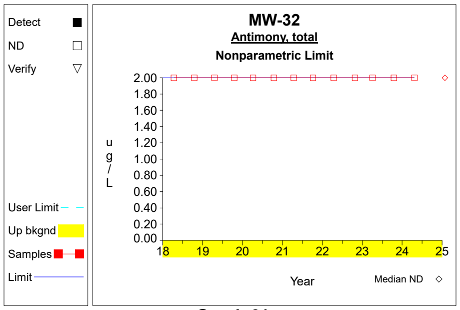


Graph 59

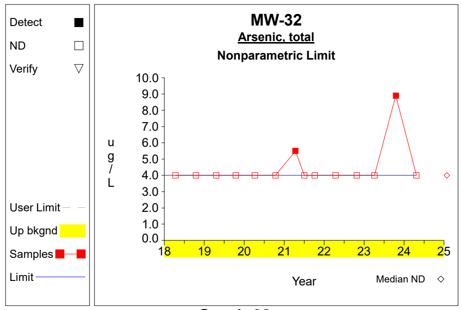


Graph 60

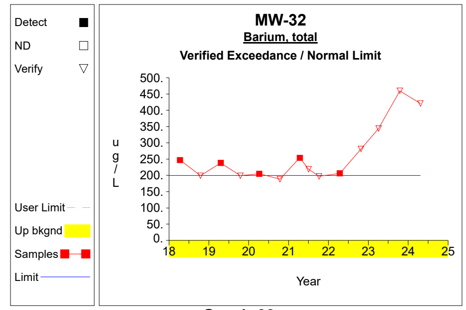
Up vs. Down Prediction Limits



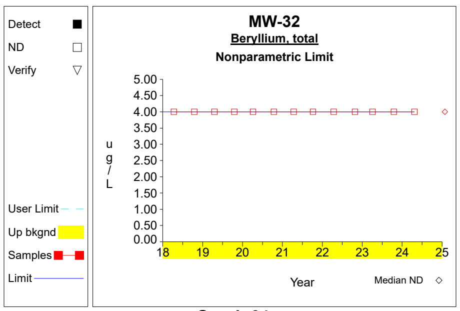
Graph 61



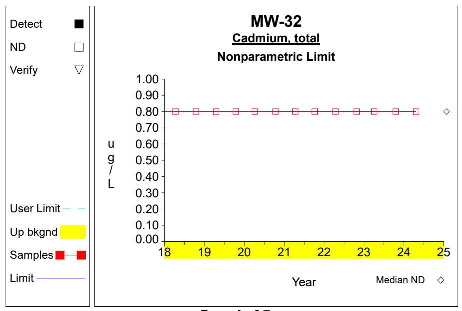
Graph 62



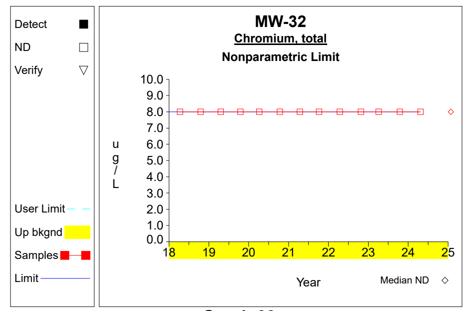
Graph 63



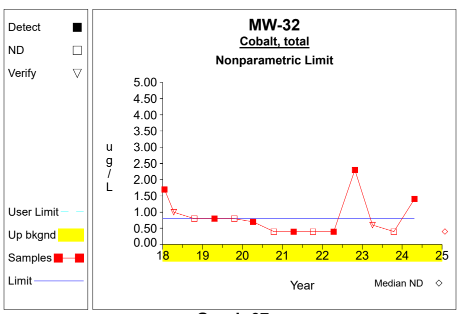
Graph 64



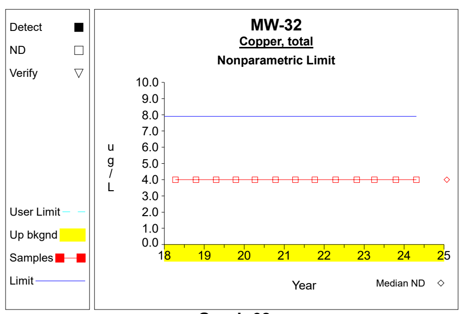
Graph 65



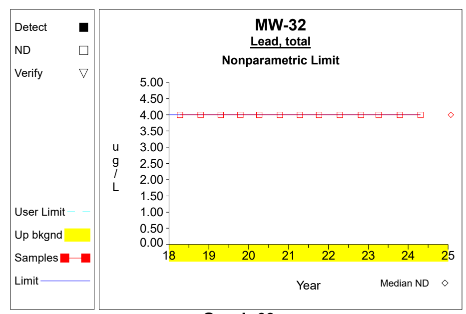
Graph 66



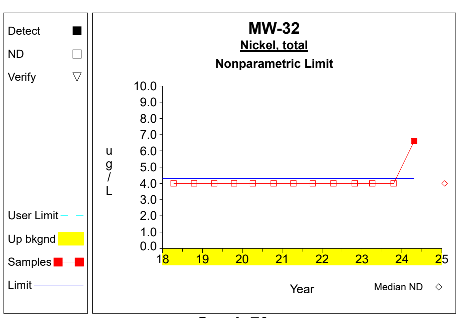
Graph 67



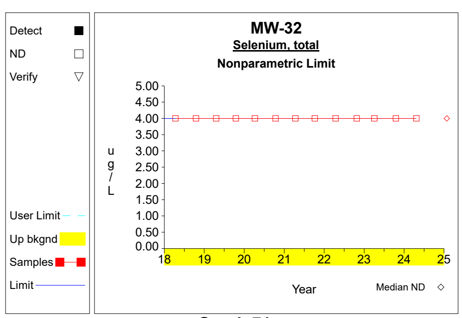
Graph 68



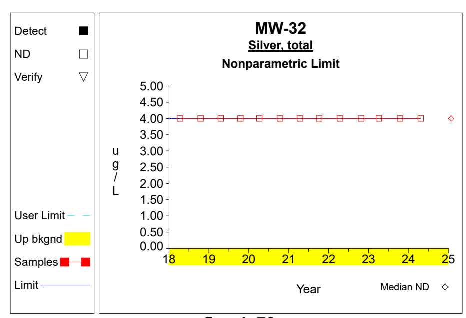
Graph 69



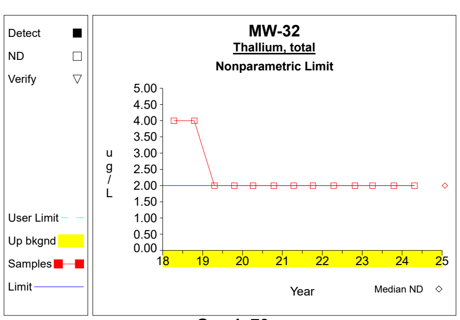
Graph 70



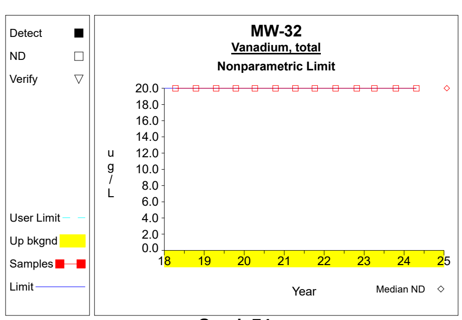
Graph 71



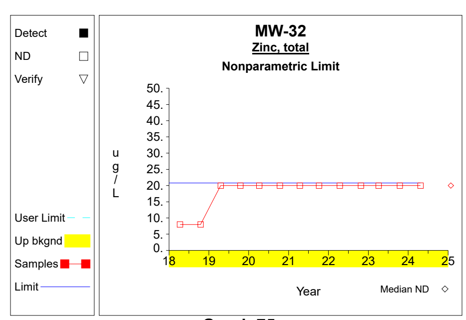
Graph 72



Graph 73



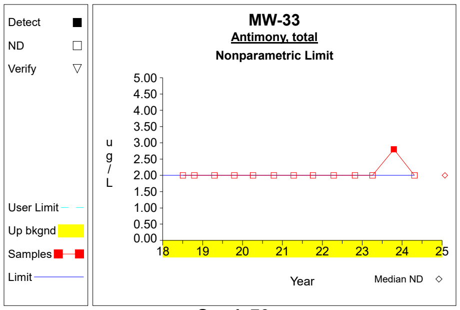
Graph 74



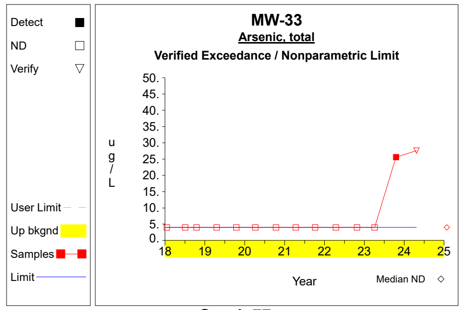
Graph 75

Fayette County [GW] May 2024

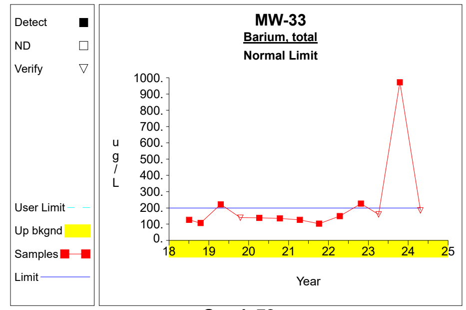
Up vs. Down Prediction Limits



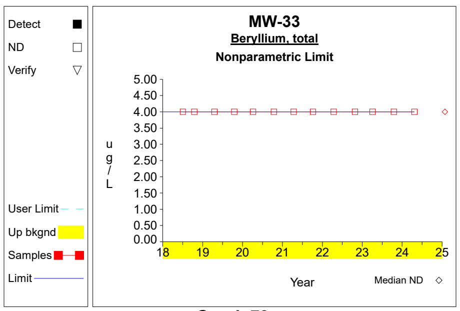
Graph 76



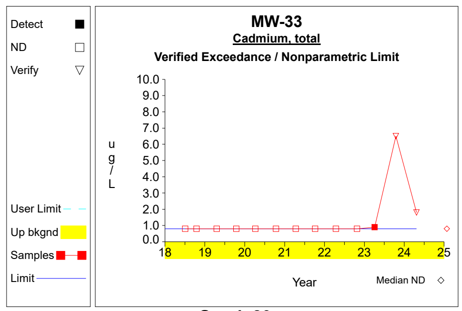
Graph 77



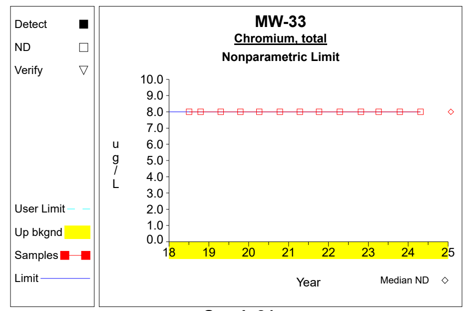
Graph 78



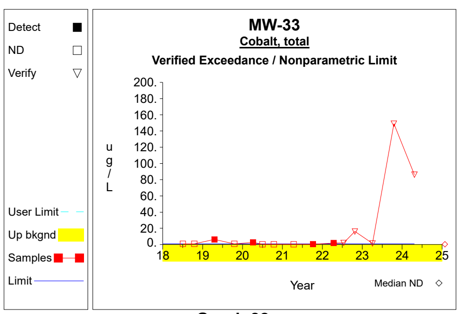
Graph 79



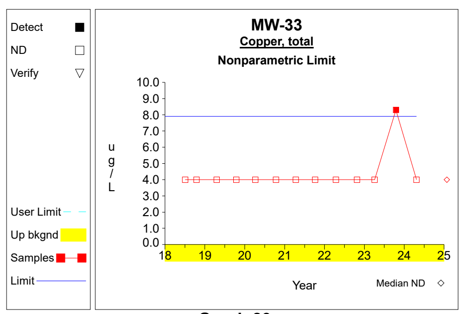
Graph 80



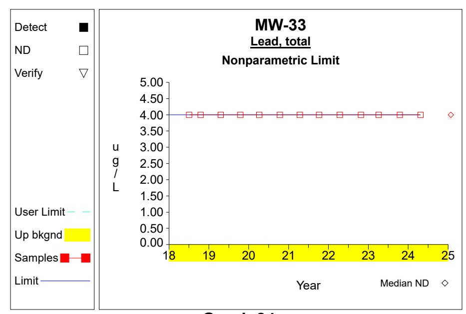
Graph 81



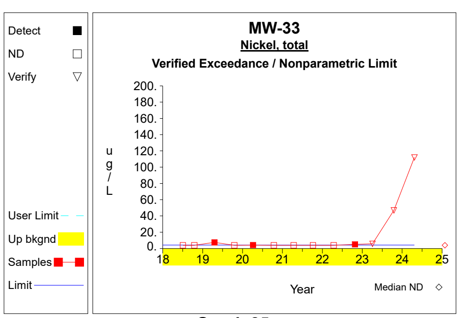
Graph 82



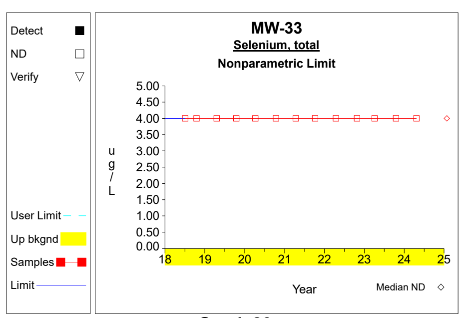
Graph 83



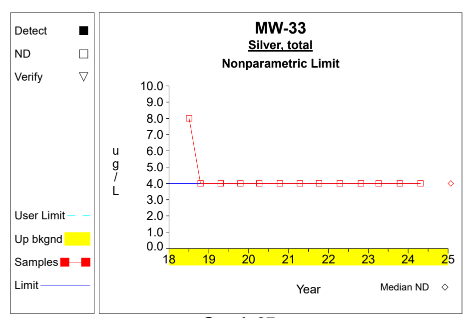
Graph 84



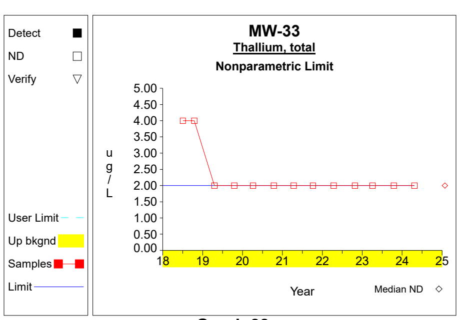
Graph 85



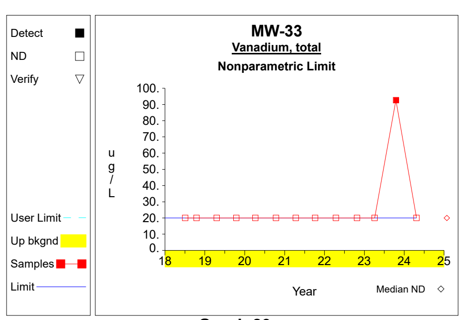
Graph 86



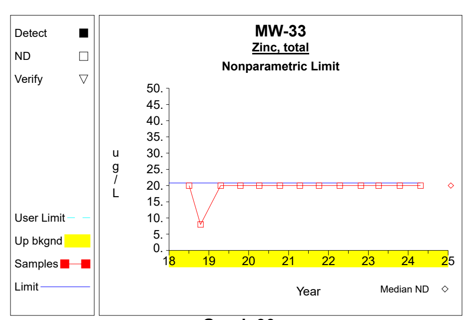
Graph 87



Graph 88



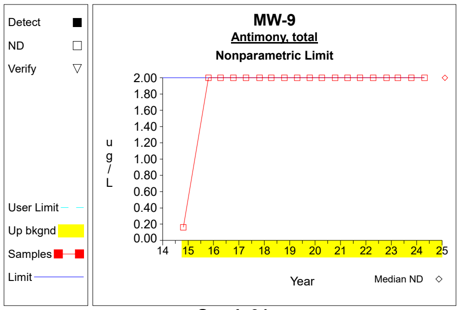
Graph 89



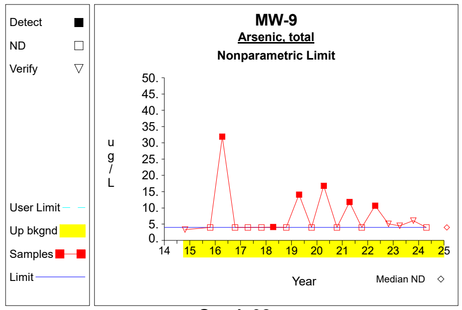
Graph 90

Prepared by: Otter Creek Environmental

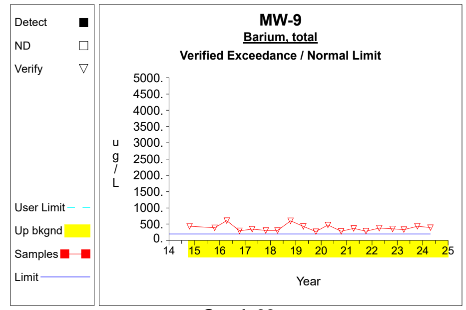
Up vs. Down Prediction Limits



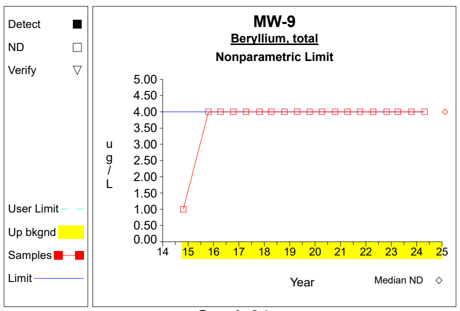
Graph 91



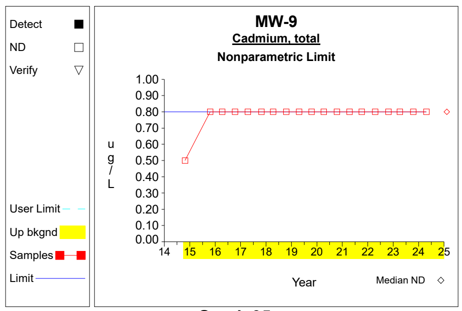
Graph 92



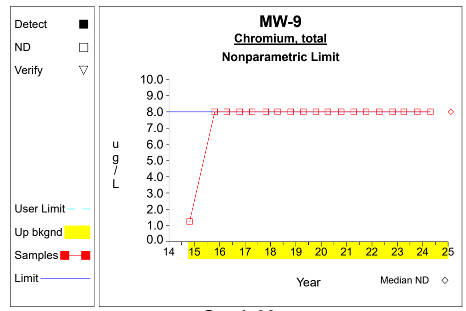
Graph 93



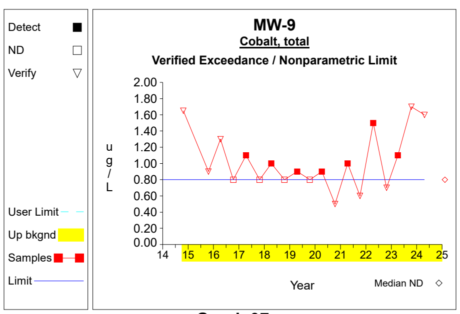
Graph 94



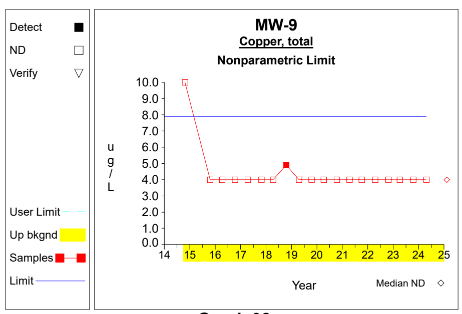
Graph 95



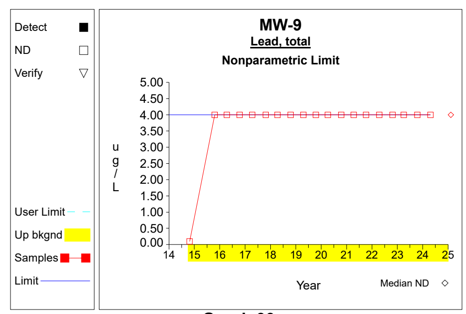
Graph 96



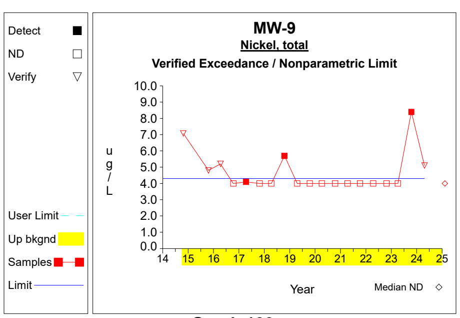
Graph 97



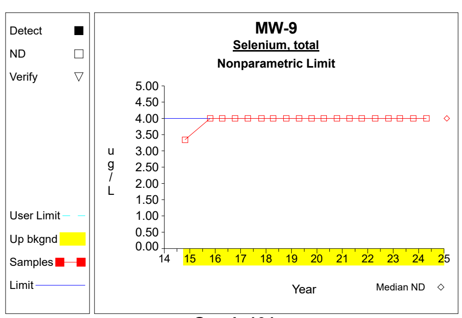
Graph 98



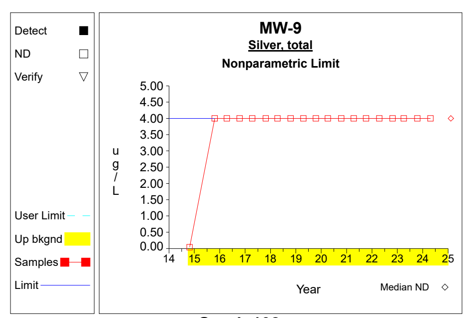
Graph 99



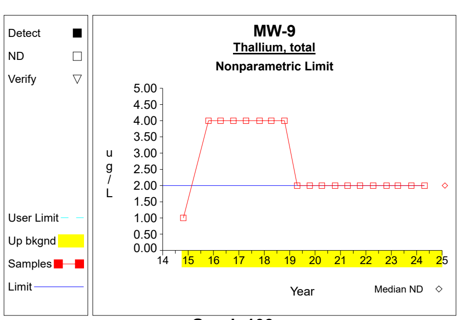
Graph 100



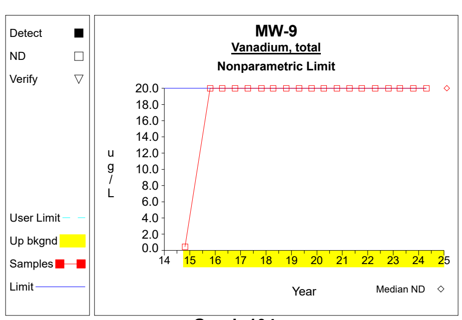
Graph 101



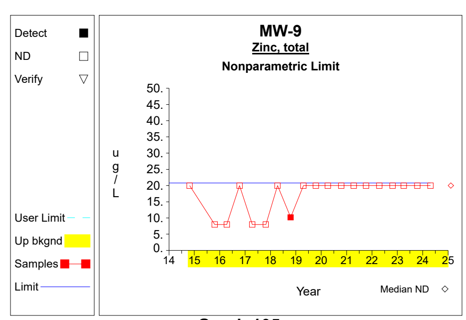
Graph 102



Graph 103

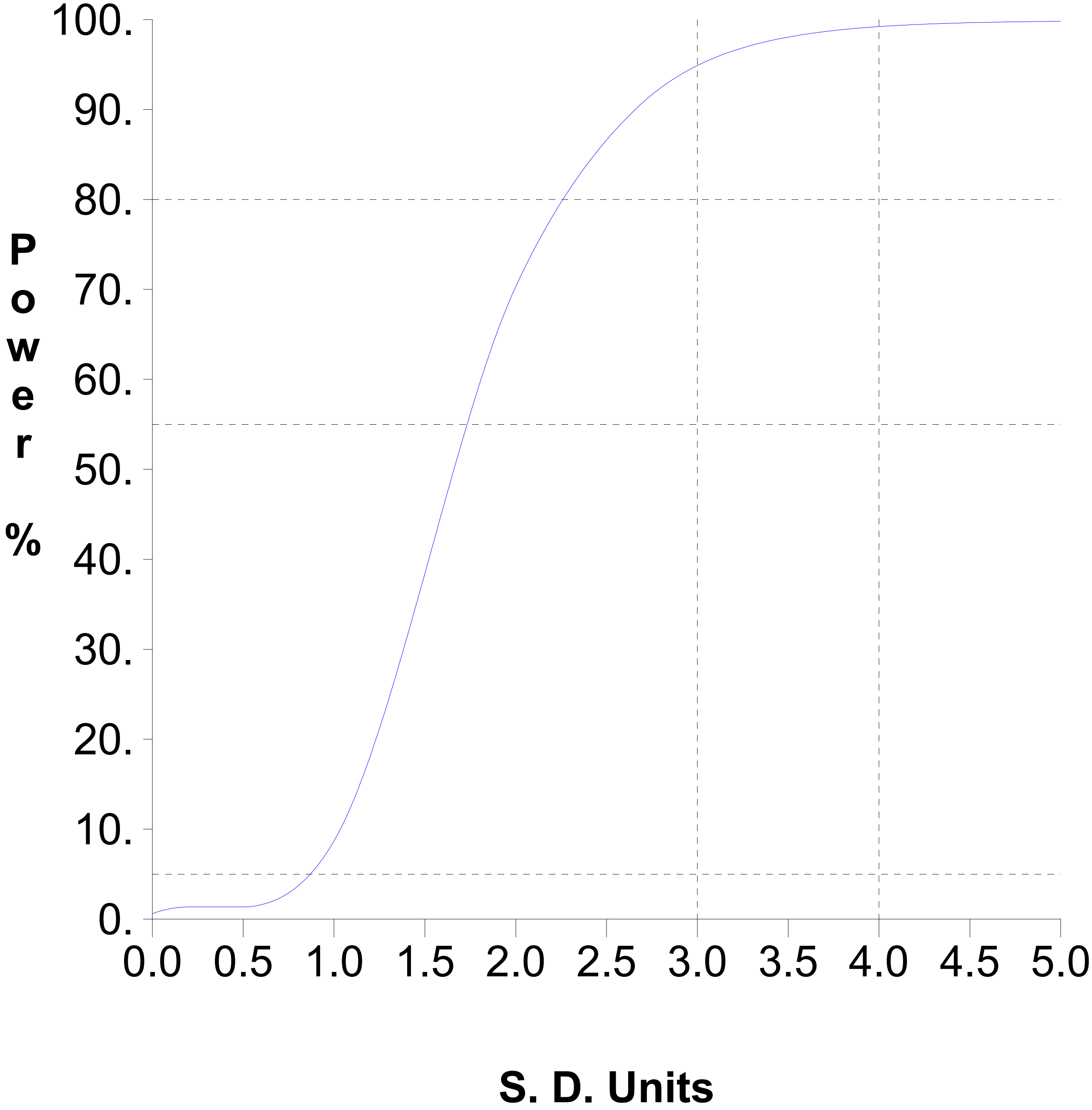


Graph 104



Graph 105

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



Worksheet 1 - Upgradient vs. Downgradient Comparisons
Antimony, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X)	Compute nonparametric prediction limit as median reporting limit in background.
	= **2.0**	
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Arsenic, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **4.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Barium, total (ug/L)
Normal Prediction Limit

Step	Equation	Description
1	$\overline{X} = \textbf{sum[X]} / \textbf{N}$ $= \textbf{5955.9} / \textbf{58}$ $= \textbf{102.688}$	Compute upgradient mean.
2	$S = ((\textbf{sum[X}^{\textbf{2}}\textbf{]} - \textbf{sum[X]}^2/\textbf{N}) / (\textbf{N}-1))^{½}$ $= ((\textbf{703346.95} - \textbf{3.55}\times\textbf{10}^{\textbf{7}}/\textbf{58}) / (\textbf{58}-1))^{½}$ $= \textbf{40.12}$	Compute upgradient sd.
3	$\text{alpha} = \min[(1-.95^{1/\textbf{K}})^{½}, .01]$ $= \min[(1-.95^{1/\textbf{105}})^{½}, .01]$ $= \textbf{0.01}$	Adjusted per comparison false positive rate. Pass initial or 1 resample.
4	$PL = \overline{\textbf{X}} + \textbf{tS}(1+1/\textbf{N})^{½}$ $= \textbf{102.688}$ $+ (\textbf{2.394}*\textbf{40.12})(1+1/\textbf{58})^{½}$ $= \textbf{199.541}$	One-sided normal prediction limit (t is Student's t on N-1 degrees of freedom and 1-alpha confidence level).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Beryllium, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **4.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Cadmium, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **0.8**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Chromium, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **8.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Cobalt, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **0.8**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Copper, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **7.9**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Lead, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **4.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Nickel, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **4.3**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Selenium, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **4.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Silver, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **4.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Thallium, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **2.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Vanadium, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **20.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Zinc, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **20.8**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Attachment C

Assessment Statistics

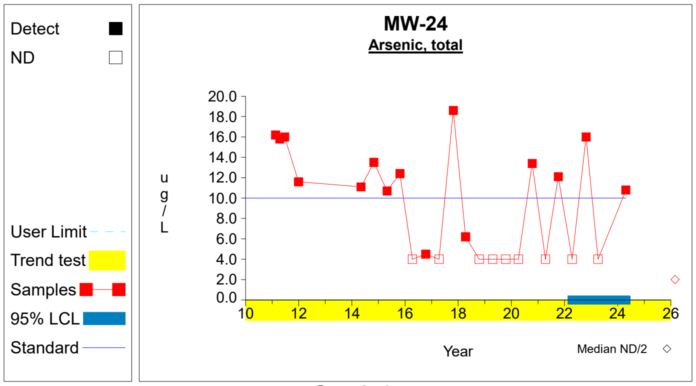
Table 1

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

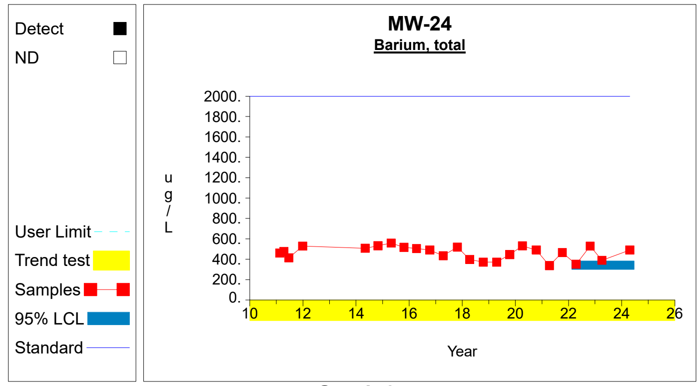
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Arsenic, total	ug/L	MW-24	4	7.700	6.916	1.176	0.000	15.835	10.000	
Barium, total	ug/L	MW-24	4	439.500	83.907	1.176	340.802	538.198	2000.000	
Cadmium, total	ug/L	MW-24	4	0.400	0.000	1.176	0.400	0.400	5.000	
Cobalt, total	ug/L	MW-24	4	1.300	0.627	1.176	0.562	2.038	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	32.525	7.627	1.176	23.554	41.496	100.000	
Selenium, total	ug/L	MW-24	4	2.000	0.000	1.176	2.000	2.000	50.000	
Arsenic, total	ug/L	MW-25	4	2.925	1.850	1.176	0.749	5.101	10.000	
Barium, total	ug/L	MW-25	4	89.825	27.735	1.176	57.200	122.450	2000.000	dec
Cadmium, total	ug/L	MW-25	4	0.400	0.000	1.176	0.400	0.400	5.000	
Cobalt, total	ug/L	MW-25	4	2.694	2.318	1.176	0.000	5.420	2.100	
Copper, total	ug/L	MW-25	4	2.000	0.000	1.176	2.000	2.000	1300.000	
Nickel, total	ug/L	MW-25	4	3.475	2.950	1.176	0.005	6.945	100.000	
Selenium, total	ug/L	MW-25	4	2.000	0.000	1.176	2.000	2.000	50.000	
Arsenic, total	ug/L	MW-26	4	2.000	0.000	1.176	2.000	2.000	10.000	
Barium, total	ug/L	MW-26	4	35.300	10.076	1.176	23.448	47.152	2000.000	dec
Cadmium, total	ug/L	MW-26	4	0.400	0.000	1.176	0.400	0.400	5.000	
Cobalt, total	ug/L	MW-26	4	4.094	6.339	1.176	0.000	11.550	2.100	
Copper, total	ug/L	MW-26	4	2.000	0.000	1.176	2.000	2.000	1300.000	
Nickel, total	ug/L	MW-26	4	6.650	2.073	1.176	4.212	9.088	100.000	
Selenium, total	ug/L	MW-26	4	2.000	0.000	1.176	2.000	2.000	50.000	
Arsenic, total	ug/L	MW-32	4	3.725	3.450	1.176	0.000	7.783	10.000	
Barium, total	ug/L	MW-32	4	376.500	79.852	1.176	282.571	470.429	2000.000	
Cadmium, total	ug/L	MW-32	4	0.400	0.000	1.176	0.400	0.400	5.000	
Cobalt, total	ug/L	MW-32	4	1.125	0.929	1.176	0.033	2.217	2.100	
Copper, total	ug/L	MW-32	4	2.000	0.000	1.176	2.000	2.000	1300.000	
Nickel, total	ug/L	MW-32	4	3.150	2.300	1.176	0.445	5.855	100.000	
Selenium, total	ug/L	MW-32	4	2.000	0.000	1.176	2.000	2.000	50.000	
Arsenic, total	ug/L	MW-33	4	14.300	14.226	1.176	0.000	31.034	10.000	
Barium, total	ug/L	MW-33	4	385.750	391.779	1.176	0.000	846.595	2000.000	
Cadmium, total	ug/L	MW-33	4	2.400	2.794	1.176	0.000	5.687	5.000	
Cobalt, total	ug/L	MW-33	4	63.200	68.149	1.176	0.000	143.363	2.100	
Copper, total	ug/L	MW-33	4	3.575	3.150	1.176	0.000	7.280	1300.000	
Nickel, total	ug/L	MW-33	4	42.450	50.316	1.176	0.000	101.637	100.000	
Selenium, total	ug/L	MW-33	4	2.000	0.000	1.176	2.000	2.000	50.000	
Arsenic, total	ug/L	MW-9	4	4.425	1.746	1.176	2.371	6.479	10.000	
Barium, total	ug/L	MW-9	4	379.000	44.952	1.176	326.124	431.876	2000.000	
Cadmium, total	ug/L	MW-9	4	0.400	0.000	1.176	0.400	0.400	5.000	
Cobalt, total	ug/L	MW-9	4	1.275	0.465	1.176	0.729	1.821	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	4.375	3.055	1.176	0.781	7.969	100.000	
Selenium, total	ug/L	MW-9	4	2.000	0.000	1.176	2.000	2.000	50.000	

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

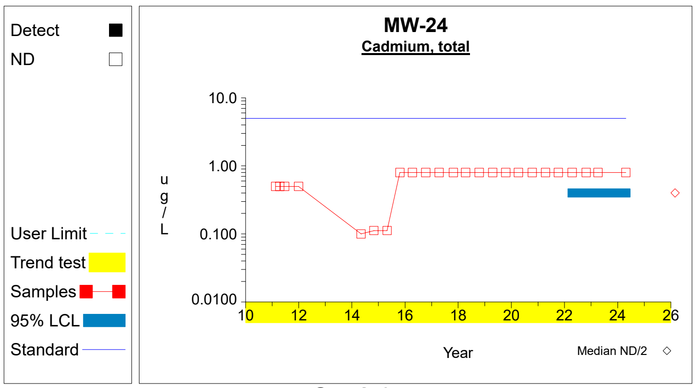
Confidence Limits (Assessment)



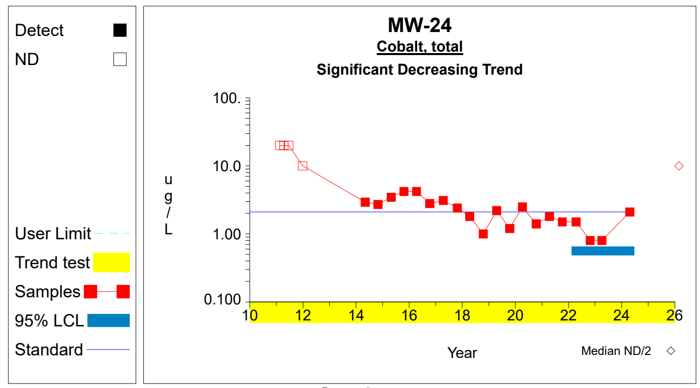
Graph 1



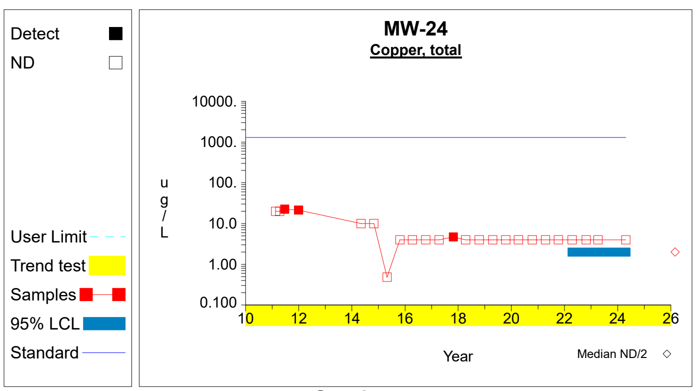
Graph 2



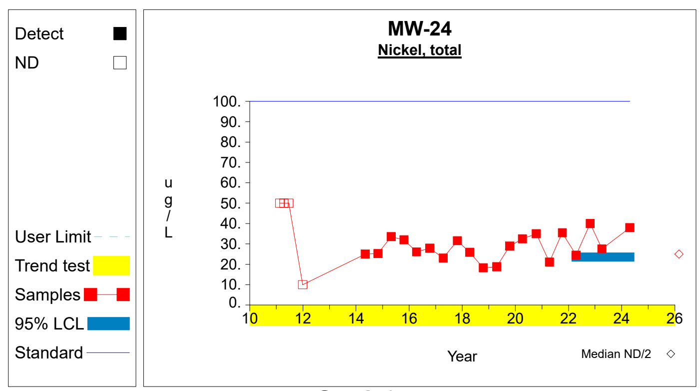
Graph 3



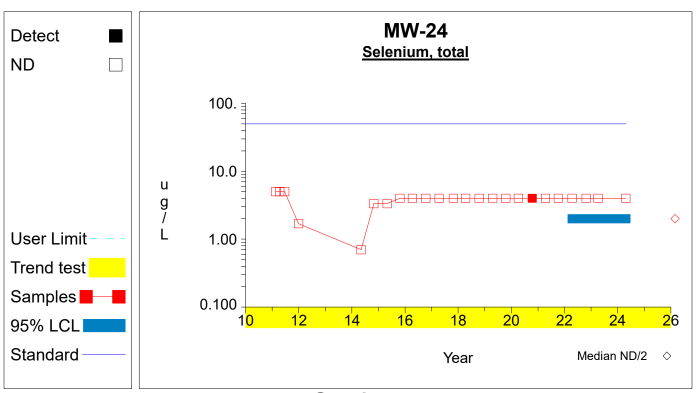
Graph 4



Graph 5



Graph 6

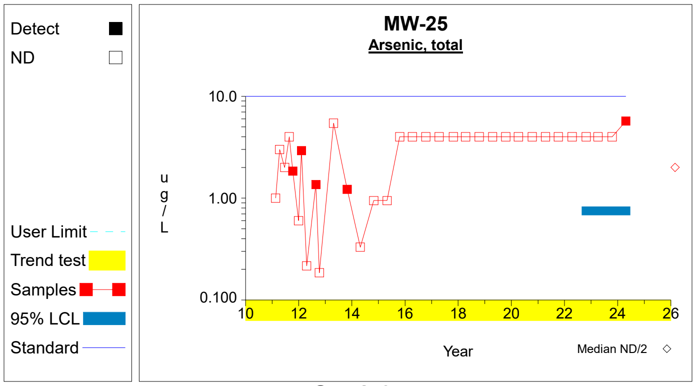


Graph 7

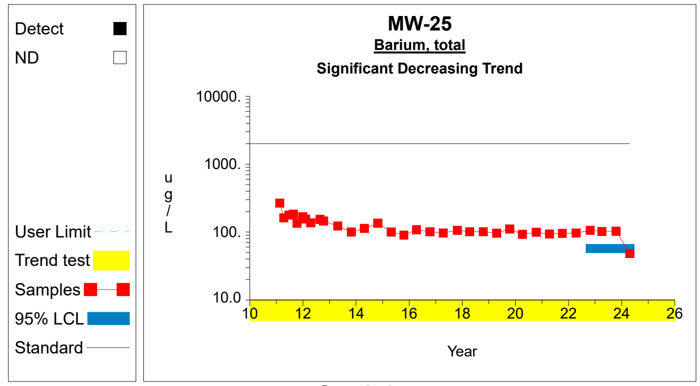
Prepared by: Otter Creek Environmental

Fayette County [GW] May 2024

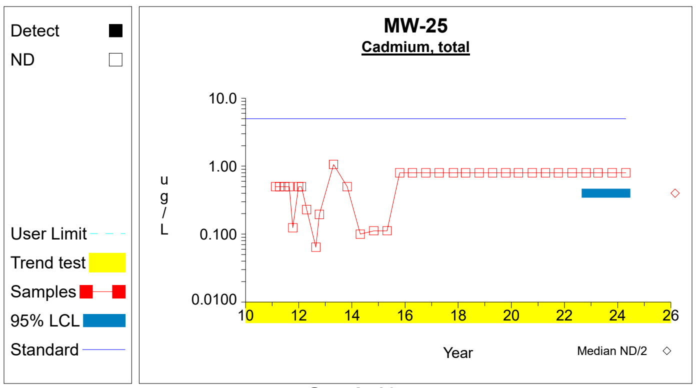
Confidence Limits (Assessment)



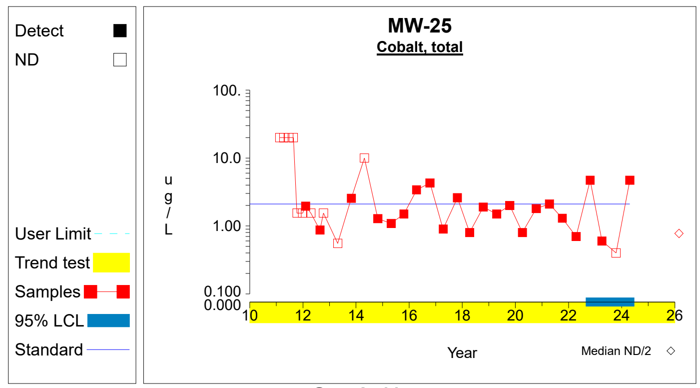
Graph 8



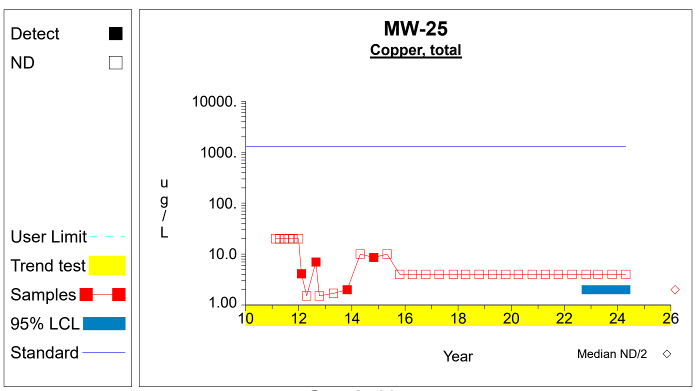
Graph 9



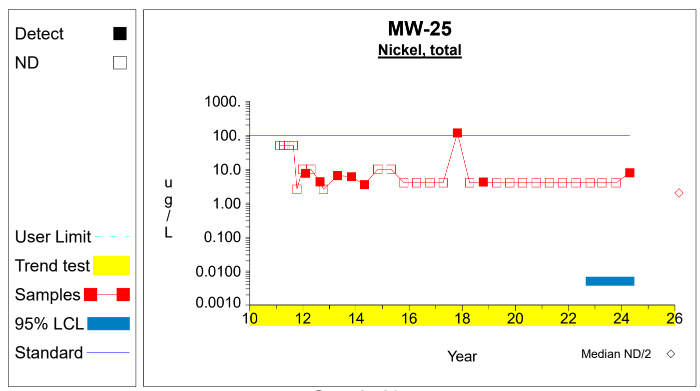
Graph 10



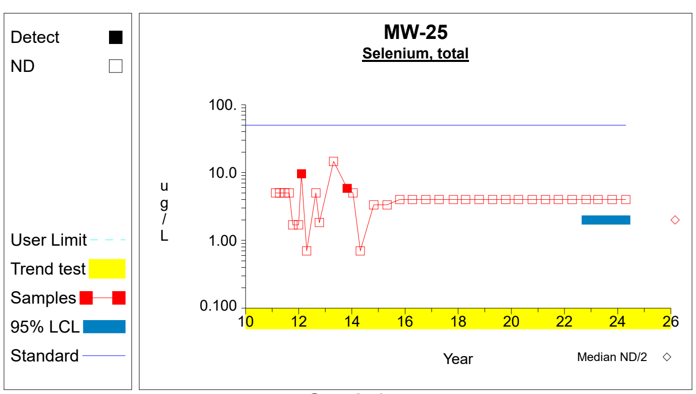
Graph 11



Graph 12



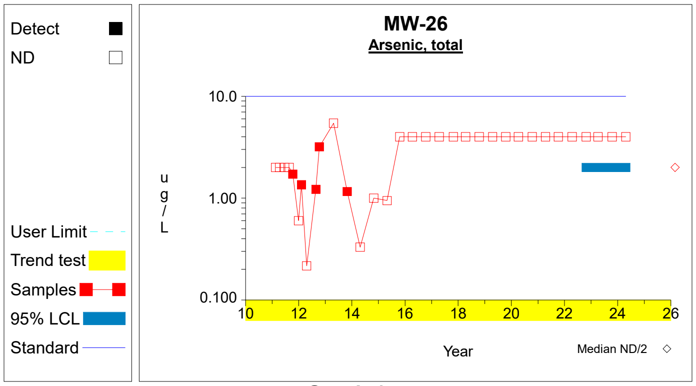
Graph 13



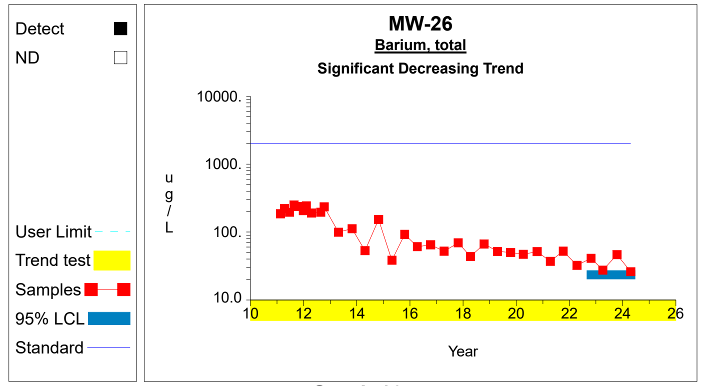
Graph 14

Prepared by: Otter Creek Environmental

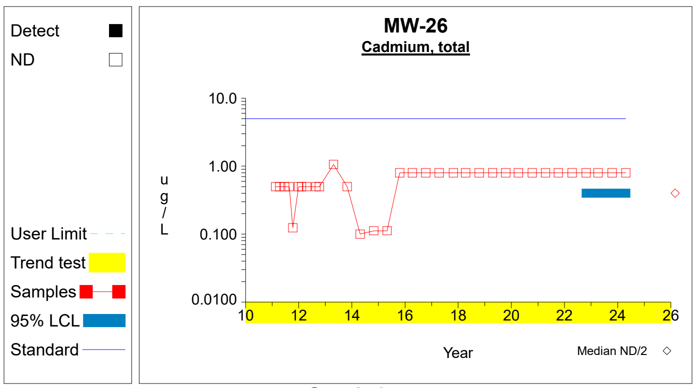
Confidence Limits (Assessment)



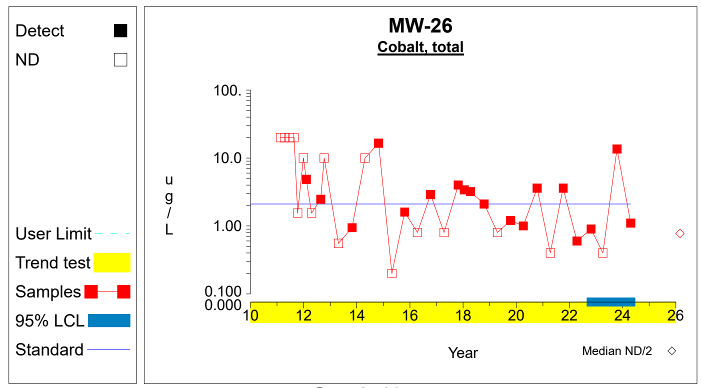
Graph 15



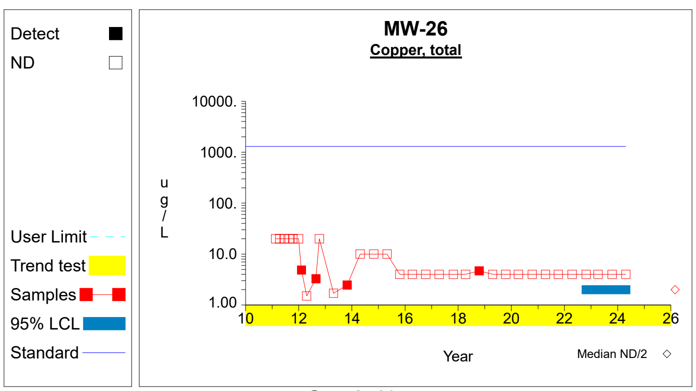
Graph 16



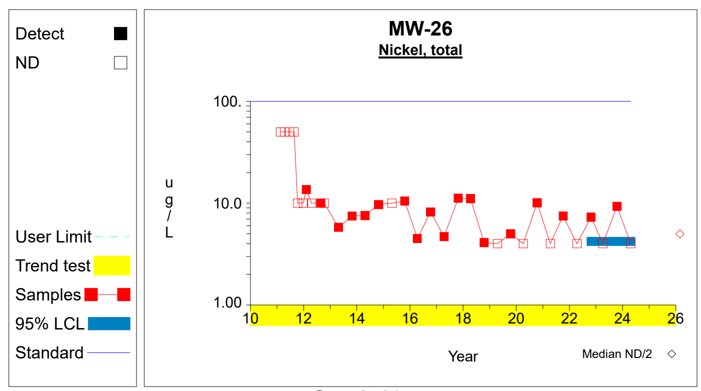
Graph 17



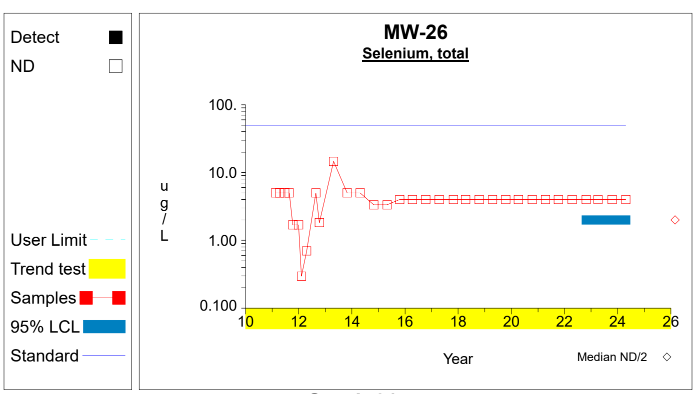
Graph 18



Graph 19

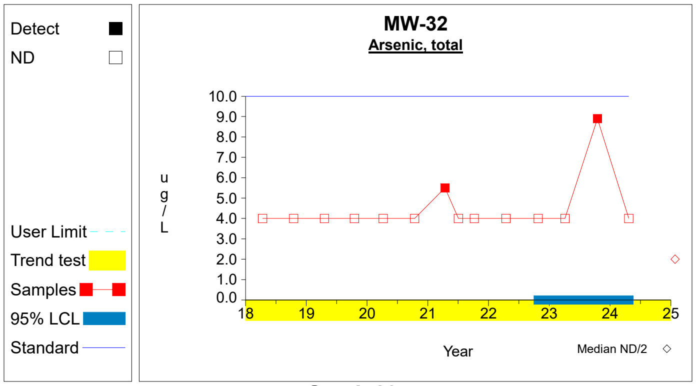


Graph 20

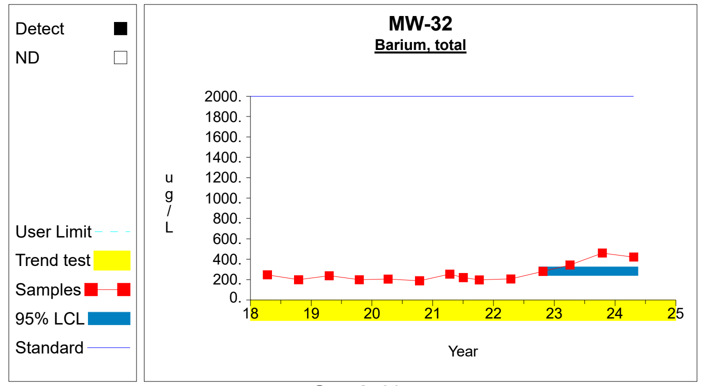


Graph 21

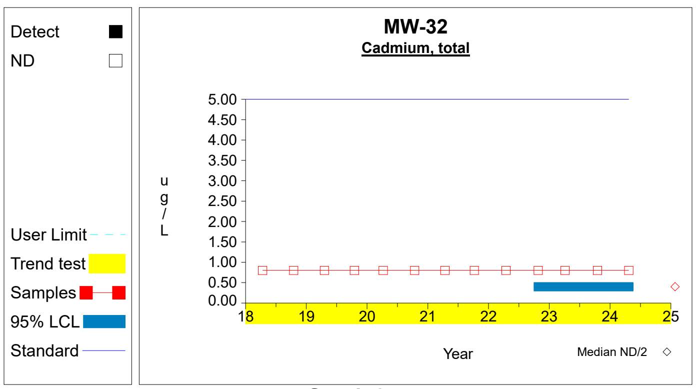
Confidence Limits (Assessment)



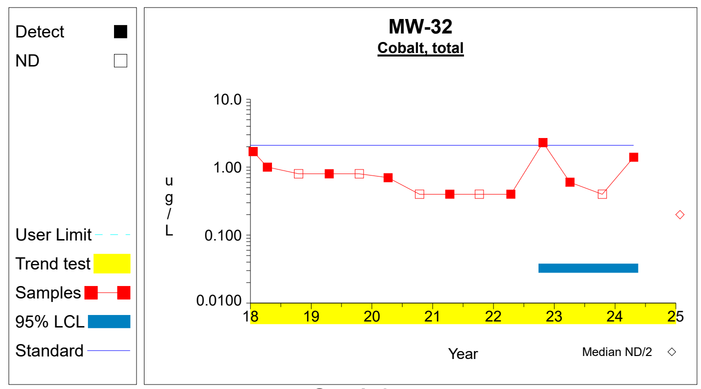
Graph 22



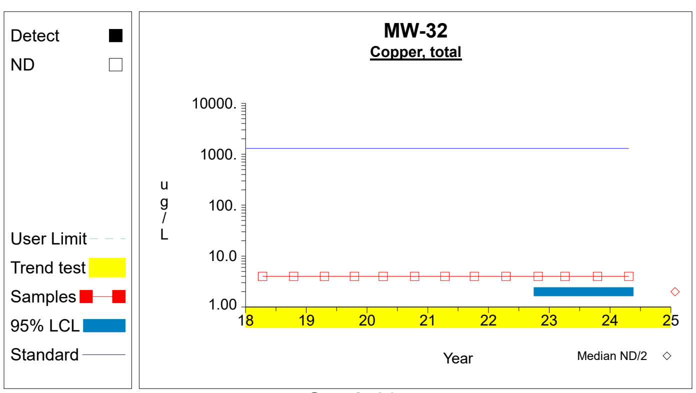
Graph 23



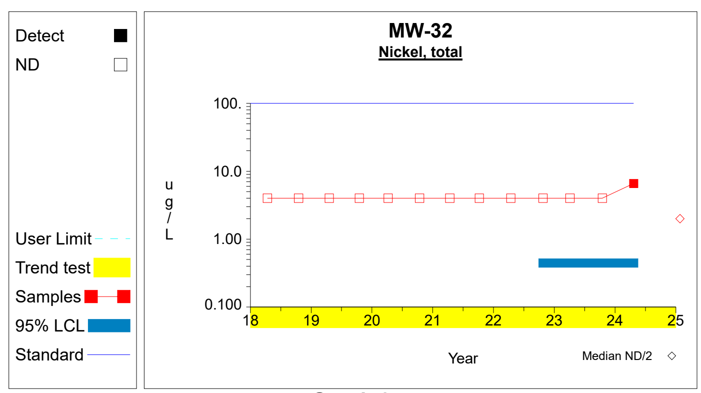
Graph 24



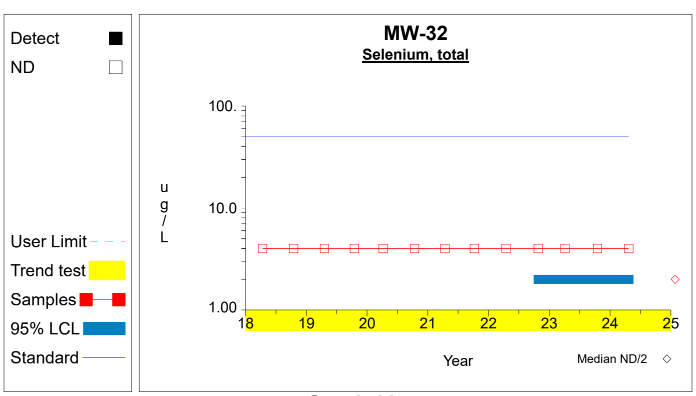
Graph 25



Graph 26

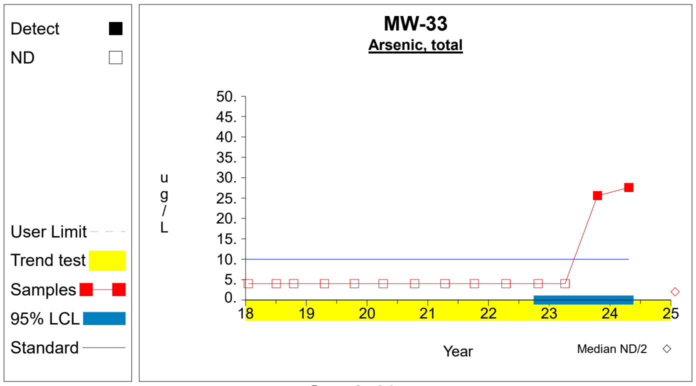


Graph 27

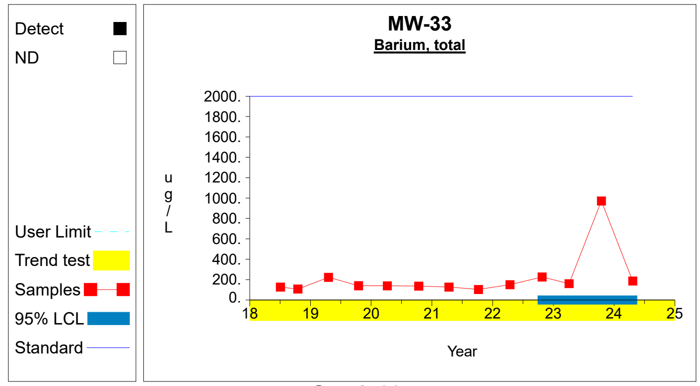


Graph 28

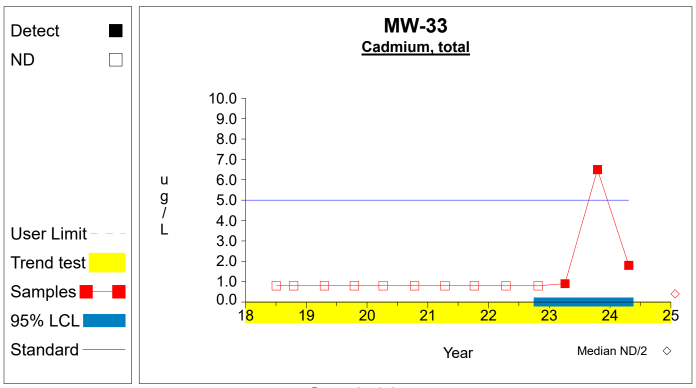
Confidence Limits (Assessment)



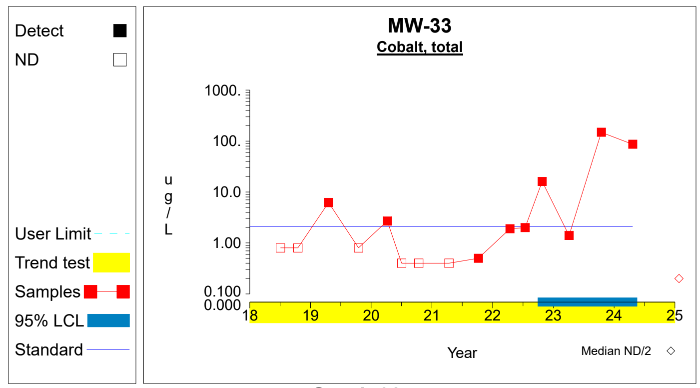
Graph 29



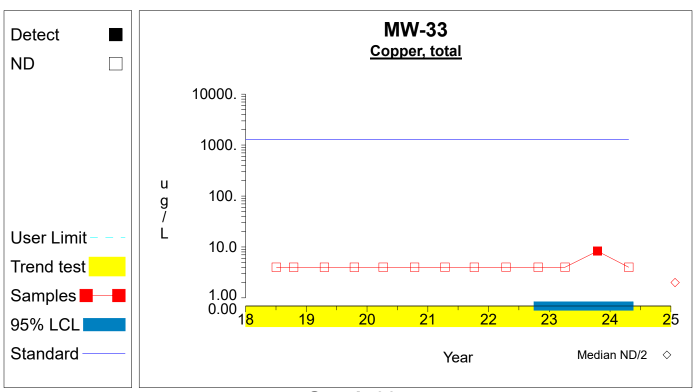
Graph 30



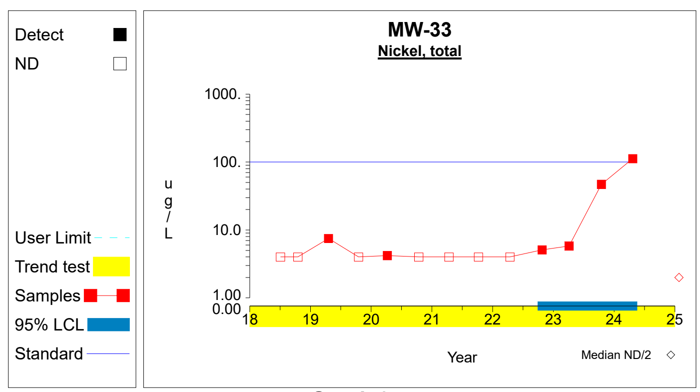
Graph 31



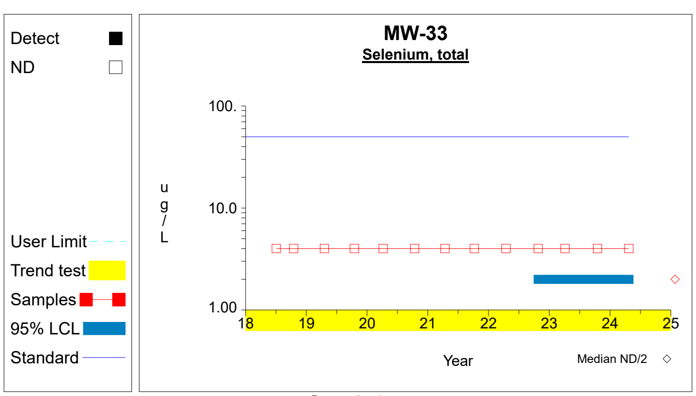
Graph 32



Graph 33

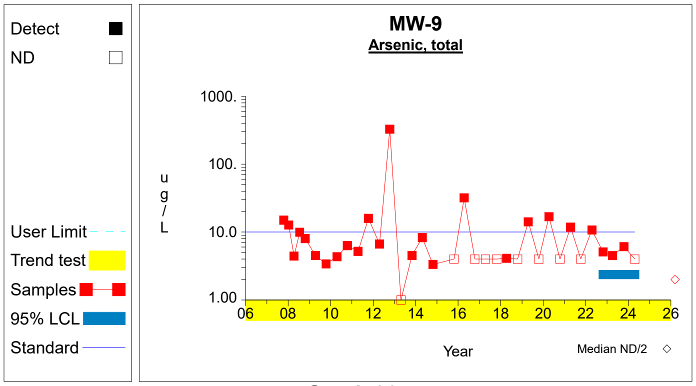


Graph 34

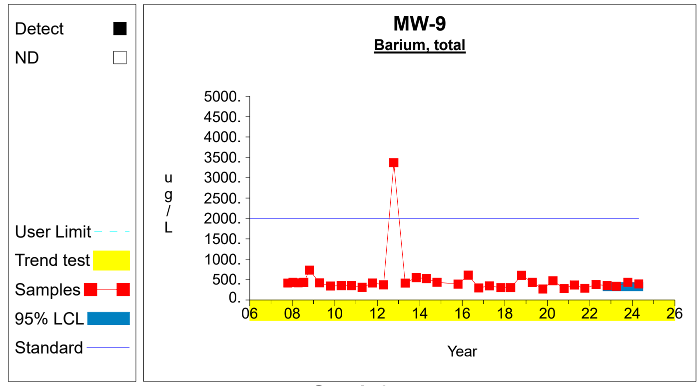


Graph 35

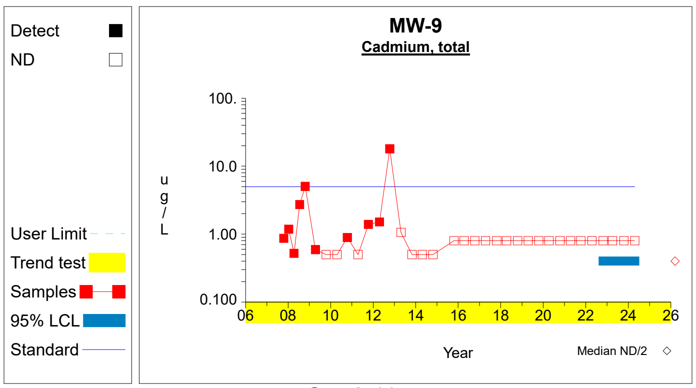
Confidence Limits (Assessment)



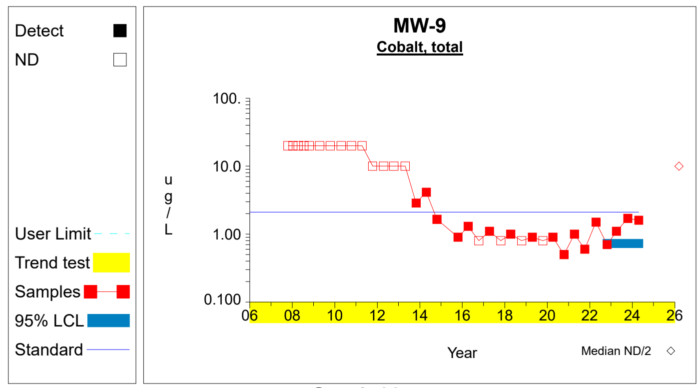
Graph 36



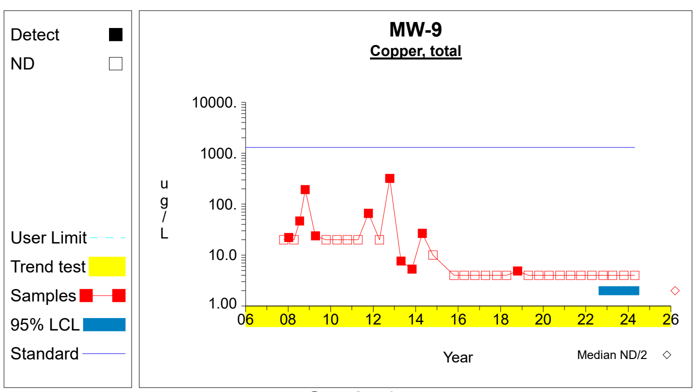
Graph 37



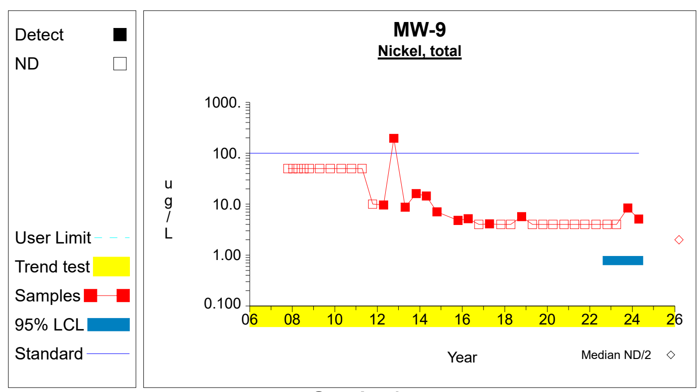
Graph 38



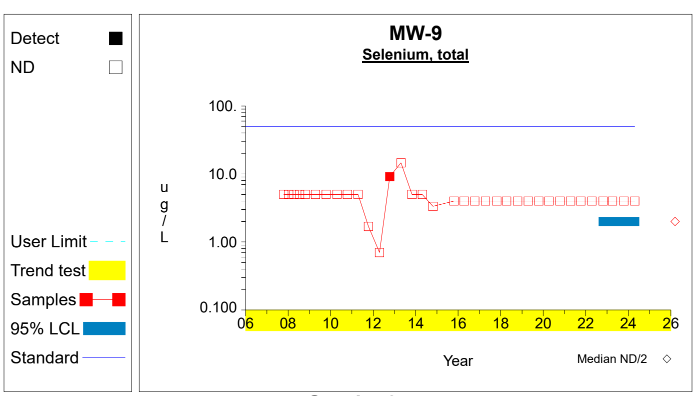
Graph 39



Graph 40



Graph 41



Graph 42

Attachment D

Summary Table of Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Bis(2-ethylhexyl) phthalate	MW-10	4/12/2017		6	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-10	4/11/2018		7	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-10	10/16/2018		34	6	ug/L
Carbon disulfide	MW-12	10/24/2014		2.42	.10	ug/L
Carbon disulfide	MW-14R	2/18/2011		2.25	1.00	ug/L
Carbon disulfide	MW-16	10/24/2014		2.97	.10	ug/L
Carbon disulfide	MW-17	10/24/2014		1.34	.10	ug/L
Carbon disulfide	MW-18	10/21/2014		1.17	1.00	ug/L
1,1-dichloroethane	MW-24	10/21/2015		1.0	1.0	ug/L
1,1-dichloroethane	MW-24	10/13/2020		1.1	1.0	ug/L
1,1-dichloroethane	MW-24	10/06/2021		1.2	1.0	ug/L
1,1-dichloroethane	MW-24	10/25/2022		1.7	1.0	ug/L
Benzene	MW-24	10/29/2014		.718	.500	ug/L
Benzene	MW-24	4/28/2015		1.080	.500	ug/L
Benzene	MW-24	10/21/2015		1.600	1.000	ug/L
Benzene	MW-24	10/11/2016		1.400	1.000	ug/L
Benzene	MW-24	4/11/2018		1.200	1.000	ug/L
Benzene	MW-24	10/13/2020		1.600	1.000	ug/L
Benzene	MW-24	10/06/2021		1.400	1.000	ug/L
Benzene	MW-24	10/25/2022		2.000	1.000	ug/L
Bis(2-ethylhexyl) phthalate	MW-24	4/12/2021		12	6	ug/L
Carbon disulfide	MW-24	10/29/2014		2.24	.10	ug/L
Chloroethane	MW-24	10/25/2022		1.1	1.0	ug/L
Vinyl chloride	MW-24	10/13/2020		1.4	1.0	ug/L
Vinyl chloride	MW-24	10/06/2021		1.4	1.0	ug/L
Vinyl chloride	MW-24	10/25/2022		2.2	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-25	4/12/2017		18	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-25	4/03/2023		15	6	ug/L
Carbon disulfide	MW-25	10/28/2014		1.7	.1	ug/L
Acetone	MW-26	10/16/2023		27.1	10.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-26	10/26/2017		12	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-26	4/17/2019		7	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-26	4/03/2023		18	6	ug/L
1,1-dichloroethane	MW-27	8/23/2012		2.65	1.00	ug/L
1,1-dichloroethane	MW-27	10/10/2012		9.18	1.00	ug/L
1,1-dichloroethane	MW-27	12/19/2012		7.02	1.00	ug/L
1,1-dichloroethane	MW-27	4/23/2013		2.38	1.00	ug/L
1,1-dichloroethane	MW-27	10/28/2013		1.83	1.00	ug/L
1,1-dichloroethane	MW-27	4/25/2014		2.25	1.00	ug/L
1,1-dichloroethane	MW-27	10/27/2014		1.90	1.00	ug/L
1,1-dichloroethane	MW-27	4/27/2015		9.70	1.00	ug/L
1,1-dichloroethane	MW-27	10/21/2015		1.50	1.00	ug/L
1,1-dichloroethane	MW-27	4/11/2016		5.80	1.00	ug/L
1,1-dichloroethane	MW-27	10/11/2016		5.90	1.00	ug/L
1,1-dichloroethane	MW-27	4/12/2017		3.20	1.00	ug/L
1,1-dichloroethane	MW-27	10/26/2017		2.90	1.00	ug/L
Benzene	MW-27	8/23/2012		1.060	.500	ug/L
Benzene	MW-27	10/10/2012		2.660	.500	ug/L
Benzene	MW-27	12/19/2012		1.950	.500	ug/L
Benzene	MW-27	4/23/2013		1.040	.500	ug/L
Benzene	MW-27	10/28/2013		.763	.500	ug/L
Benzene	MW-27	4/25/2014		1.280	.500	ug/L
Benzene	MW-27	10/27/2014		1.330	.500	ug/L
Benzene	MW-27	4/27/2015		2.920	.500	ug/L
Benzene	MW-27	4/11/2016		1.000	1.000	ug/L
Benzene	MW-27	10/11/2016		1.100	1.000	ug/L
Benzene	MW-27	10/26/2017		1.500	1.000	ug/L
Chloroethane	MW-27	4/27/2015		5.97	1.00	ug/L
Chloroethane	MW-27	4/11/2016		4.50	1.00	ug/L
Chloroethane	MW-27	10/11/2016		4.90	1.00	ug/L
Chloroethane	MW-27	4/12/2017		2.90	1.00	ug/L
Chloroethane	MW-27	10/26/2017		2.50	1.00	ug/L
Cis-1,2-dichloroethylene	MW-27	8/23/2012		1.32	1.00	ug/L
Cis-1,2-dichloroethylene	MW-27	10/10/2012		5.11	1.00	ug/L
Cis-1,2-dichloroethylene	MW-27	12/19/2012		3.53	1.00	ug/L
Cis-1,2-dichloroethylene	MW-27	10/28/2013		1.07	1.00	ug/L
Vinyl chloride	MW-27	10/10/2012		2.46	1.00	ug/L
Vinyl chloride	MW-27	12/19/2012		1.94	1.00	ug/L
Vinyl chloride	MW-27	4/27/2015		1.82	1.00	ug/L
Vinyl chloride	MW-27	4/11/2016		1.30	1.00	ug/L
Vinyl chloride	MW-27	10/11/2016		1.40	1.00	ug/L
Vinyl chloride	MW-27	4/12/2017		1.30	1.00	ug/L
1,1-dichloroethane	MW-28	10/24/2014		1.38	1.00	ug/L
1,1-dichloroethane	MW-28	4/27/2015		1.29	1.00	ug/L
1,1-dichloroethane	MW-28	10/11/2016		1.80	1.00	ug/L
Benzene	MW-28	8/23/2012		1.33	.50	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-28	10/11/2012		1.29	.50	ug/L
Benzene	MW-28	12/19/2012		1.18	.50	ug/L
Benzene	MW-28	4/23/2013		2.50	.50	ug/L
Benzene	MW-28	10/28/2013		1.06	.50	ug/L
Benzene	MW-28	4/28/2014		2.30	.50	ug/L
Benzene	MW-28	10/24/2014		5.64	.50	ug/L
Benzene	MW-28	4/27/2015		4.56	.50	ug/L
Benzene	MW-28	10/21/2015		2.50	1.00	ug/L
Benzene	MW-28	4/11/2016		7.20	1.00	ug/L
Benzene	MW-28	10/11/2016		12.00	1.00	ug/L
Benzene	MW-28	4/12/2017		7.50	1.00	ug/L
Benzene	MW-28	10/26/2017		9.80	1.00	ug/L
Bis(2-ethylhexyl) phthalate	MW-28	10/21/2015		8	8	ug/L
Carbon disulfide	MW-28	10/24/2014		1.18	.10	ug/L
Chloroethane	MW-28	4/28/2014		6.11	1.00	ug/L
Chloroethane	MW-28	10/24/2014		4.25	1.00	ug/L
Chloroethane	MW-28	10/21/2015		1.40	1.00	ug/L
Chloroethane	MW-28	10/11/2016		1.60	1.00	ug/L
Chloroethane	MW-28	4/12/2017		3.50	1.00	ug/L
Bis(2-ethylhexyl) phthalate	MW-33	10/25/2022		55	6	ug/L
1,1-dichloroethane	MW-5	10/10/2012		1.19	1.00	ug/L
1,1-dichloroethane	MW-5	4/23/2013		1.64	1.00	ug/L
1,1-dichloroethane	MW-5	10/29/2013		1.16	1.00	ug/L
1,1-dichloroethane	MW-5	10/17/2014		1.41	1.00	ug/L
1,1-dichloroethane	MW-5	4/29/2015		1.22	1.00	ug/L
1,1-dichloroethane	MW-5	10/21/2015		1.30	1.00	ug/L
1,1-dichloroethane	MW-5	4/11/2018		1.00	1.00	ug/L
1,4-dichlorobenzene	MW-5	4/11/2018		1.1	1.0	ug/L
1,4-dichlorobenzene	MW-5	10/06/2021		1.0	1.0	ug/L
1,4-dichlorobenzene	MW-5	4/14/2022		1.0	1.0	ug/L
2-butanone	MW-5	4/23/2013		27.0	1.0	ug/L
2-butanone	MW-5	4/23/2014		43.6	1.0	ug/L
2-butanone	MW-5	4/29/2015		16.8	1.0	ug/L
2-butanone	MW-5	4/11/2018		28.0	5.0	ug/L
2-butanone	MW-5	4/14/2022		28.4	10.0	ug/L
Acetone	MW-5	4/18/2012		13.6	1.0	ug/L
Acetone	MW-5	4/23/2013		1240.0	1.0	ug/L
Acetone	MW-5	4/23/2014		1530.0	1.0	ug/L
Acetone	MW-5	4/29/2015		103.0	1.0	ug/L
Acetone	MW-5	4/11/2018		1690.0	100.0	ug/L
Acetone	MW-5	4/12/2021		14.8	10.0	ug/L
Acetone	MW-5	4/14/2022		751.0	100.0	ug/L
Benzene	MW-5	4/12/2011		1.42	1.00	ug/L
Benzene	MW-5	5/06/2011		3.47	1.00	ug/L
Benzene	MW-5	6/21/2011		.95	.10	ug/L
Benzene	MW-5	10/10/2011		3.06	1.00	ug/L
Benzene	MW-5	4/18/2012		2.88	1.00	ug/L
Benzene	MW-5	10/10/2012		2.68	1.00	ug/L
Benzene	MW-5	4/23/2013		7.26	1.00	ug/L
Benzene	MW-5	10/29/2013		4.91	1.00	ug/L
Benzene	MW-5	4/23/2014		6.76	1.00	ug/L
Benzene	MW-5	10/17/2014		6.31	1.00	ug/L
Benzene	MW-5	4/29/2015		7.19	1.00	ug/L
Benzene	MW-5	10/21/2015		6.70	1.00	ug/L
Benzene	MW-5	4/11/2016		4.60	1.00	ug/L
Benzene	MW-5	10/11/2016		5.70	1.00	ug/L
Benzene	MW-5	4/12/2017		4.70	1.00	ug/L
Benzene	MW-5	10/26/2017		6.20	1.00	ug/L
Benzene	MW-5	4/11/2018		8.70	1.00	ug/L
Benzene	MW-5	10/16/2018		5.90	1.00	ug/L
Benzene	MW-5	4/17/2019		6.60	1.00	ug/L
Benzene	MW-5	10/15/2019		5.60	1.00	ug/L
Benzene	MW-5	4/06/2020		5.60	1.00	ug/L
Benzene	MW-5	10/14/2020		6.30	1.00	ug/L
Benzene	MW-5	4/12/2021		5.70	1.00	ug/L
Benzene	MW-5	10/06/2021		4.50	1.00	ug/L
Benzene	MW-5	4/14/2022		6.00	1.00	ug/L
Benzene	MW-5	10/25/2022		5.40	1.00	ug/L
Benzene	MW-5	4/03/2023		6.50	1.00	ug/L
Benzene	MW-5	10/16/2023		4.50	1.00	ug/L
Benzene	MW-5	4/22/2024		3.70	1.00	ug/L
Bis(2-ethylhexyl) phthalate	MW-5	10/21/2015		8	8	ug/L
Carbon disulfide	MW-5	10/17/2014		1.04	1.00	ug/L
Carbon disulfide	MW-5	4/14/2022		2.40	1.00	ug/L
Chlorobenzene	MW-5	4/23/2013		1.49	1.00	ug/L
Chlorobenzene	MW-5	4/23/2014		1.38	1.00	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Chlorobenzene	MW-5	10/17/2014		1.22	1.00	ug/L
Chlorobenzene	MW-5	4/29/2015		1.44	1.00	ug/L
Chlorobenzene	MW-5	10/26/2017		1.30	1.00	ug/L
Chlorobenzene	MW-5	4/11/2018		1.80	1.00	ug/L
Chlorobenzene	MW-5	10/15/2019		1.00	1.00	ug/L
Chlorobenzene	MW-5	10/14/2020		1.00	1.00	ug/L
Chlorobenzene	MW-5	10/06/2021		1.10	1.00	ug/L
Chlorobenzene	MW-5	4/14/2022		1.50	1.00	ug/L
Chlorobenzene	MW-5	10/25/2022		1.10	1.00	ug/L
Chlorobenzene	MW-5	4/03/2023		1.10	1.00	ug/L
Chlorobenzene	MW-5	10/16/2023		1.00	1.00	ug/L
Chloroethane	MW-5	4/12/2011		5.40	1.00	ug/L
Chloroethane	MW-5	5/06/2011		5.72	1.00	ug/L
Chloroethane	MW-5	10/10/2011		4.39	1.00	ug/L
Chloroethane	MW-5	4/18/2012		5.42	1.00	ug/L
Chloroethane	MW-5	10/10/2012		5.48	1.00	ug/L
Chloroethane	MW-5	4/23/2013		7.72	1.00	ug/L
Chloroethane	MW-5	10/29/2013		6.04	1.00	ug/L
Chloroethane	MW-5	4/23/2014		10.10	1.00	ug/L
Chloroethane	MW-5	10/17/2014		6.05	1.00	ug/L
Chloroethane	MW-5	4/29/2015		8.30	1.00	ug/L
Chloroethane	MW-5	10/21/2015		6.80	1.00	ug/L
Chloroethane	MW-5	4/11/2016		7.20	1.00	ug/L
Chloroethane	MW-5	10/11/2016		7.20	1.00	ug/L
Chloroethane	MW-5	4/12/2017		6.00	1.00	ug/L
Chloroethane	MW-5	10/26/2017		5.00	1.00	ug/L
Chloroethane	MW-5	4/11/2018		6.30	1.00	ug/L
Chloroethane	MW-5	10/16/2018		2.80	1.00	ug/L
Chloroethane	MW-5	4/17/2019		5.50	1.00	ug/L
Chloroethane	MW-5	10/15/2019		3.50	1.00	ug/L
Chloroethane	MW-5	4/06/2020		4.90	1.00	ug/L
Chloroethane	MW-5	10/14/2020		4.20	1.00	ug/L
Chloroethane	MW-5	4/12/2021		4.20	1.00	ug/L
Chloroethane	MW-5	10/06/2021		3.20	1.00	ug/L
Chloroethane	MW-5	4/14/2022		3.20	1.00	ug/L
Chloroethane	MW-5	10/25/2022		3.80	1.00	ug/L
Chloroethane	MW-5	4/03/2023		5.60	1.00	ug/L
Chloroethane	MW-5	10/16/2023		4.00	1.00	ug/L
Chloroethane	MW-5	4/22/2024		4.10	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/12/2011		1.82	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	5/06/2011		2.96	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	6/21/2011		1.30	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/10/2011		1.60	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/18/2012		2.65	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/10/2012		1.76	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/23/2013		2.07	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/29/2013		1.75	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/23/2014		2.16	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/17/2014		2.06	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/29/2015		2.02	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/21/2015		1.90	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/11/2016		1.60	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/11/2016		1.60	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/12/2017		1.60	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/26/2017		1.50	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/11/2018		2.40	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/17/2019		1.30	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/14/2020		1.20	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/06/2021		1.60	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/14/2022		1.50	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/25/2022		1.80	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/03/2023		1.80	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/16/2023		1.60	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/22/2024		1.10	1.00	ug/L
Ethylbenzene	MW-5	4/23/2013		15.20	1.00	ug/L
Ethylbenzene	MW-5	4/23/2014		13.30	1.00	ug/L
Ethylbenzene	MW-5	10/17/2014		2.31	1.00	ug/L
Ethylbenzene	MW-5	4/29/2015		15.40	1.00	ug/L
Ethylbenzene	MW-5	10/26/2017		1.20	1.00	ug/L
Ethylbenzene	MW-5	4/11/2018		23.00	1.00	ug/L
Ethylbenzene	MW-5	4/17/2019		2.90	1.00	ug/L
Ethylbenzene	MW-5	4/12/2021		5.10	1.00	ug/L
Ethylbenzene	MW-5	4/14/2022		11.90	1.00	ug/L
Ethylbenzene	MW-5	10/25/2022		2.70	1.00	ug/L
Methane	MW-5	7/23/2019		5.060	.704	mg/L
Toluene	MW-5	4/23/2013		1.9	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
Toluene	MW-5	10/25/2022		6.5	1.0	ug/L
Vinyl chloride	MW-5	4/12/2011		2.74	1.00	ug/L
Vinyl chloride	MW-5	5/06/2011		1.90	1.00	ug/L
Vinyl chloride	MW-5	10/10/2011		1.19	1.00	ug/L
Vinyl chloride	MW-5	4/18/2012		1.60	1.00	ug/L
Vinyl chloride	MW-5	10/10/2012		1.41	1.00	ug/L
Vinyl chloride	MW-5	4/12/2017		1.10	1.00	ug/L
Vinyl chloride	MW-5	4/03/2023		1.20	1.00	ug/L
Xylenes, total	MW-5	4/18/2012		.98	.10	ug/L
Xylenes, total	MW-5	4/23/2013		19.30	1.00	ug/L
Xylenes, total	MW-5	4/23/2014		11.10	1.00	ug/L
Xylenes, total	MW-5	4/29/2015		10.40	1.00	ug/L
Xylenes, total	MW-5	4/11/2018		23.50	2.00	ug/L
Xylenes, total	MW-5	4/12/2021		2.80	2.00	ug/L
Xylenes, total	MW-5	4/14/2022		6.70	2.00	ug/L
1,4-dichlorobenzene	MW-6	4/18/2019		2.6	1.0	ug/L
Tetrachloroethylene	MW-6	10/31/2013		3.76	1.00	ug/L
Carbon disulfide	MW-7	10/17/2007		8.65	.10	ug/L
Carbon disulfide	MW-7	10/24/2014		1.54	.10	ug/L
Carbon disulfide	MW-8	4/16/2013		1.58	1.00	ug/L
Carbon disulfide	MW-8	10/27/2014		1.03	1.00	ug/L
1,1-dichloroethane	MW-9	10/11/2012		3.32	1.00	ug/L
1,1-dichloroethane	MW-9	10/29/2013		2.21	1.00	ug/L
Acetone	MW-9	10/21/2008		16.3	10.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-9	4/11/2018		6	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-9	10/16/2019		12	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-9	4/12/2021		6	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-9	10/25/2022		6	6	ug/L
Carbon disulfide	MW-9	10/11/2012		.43	.10	ug/L
Cis-1,2-dichloroethylene	MW-9	10/11/2012		1.23	1.00	ug/L
Hexachlorobenzene	MW-9	4/11/2018		.12	.05	ug/L
Vinyl chloride	MW-9	10/11/2012		1.1	1.0	ug/L

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

Attachment E

Assessment Statistics for Detected VOCs

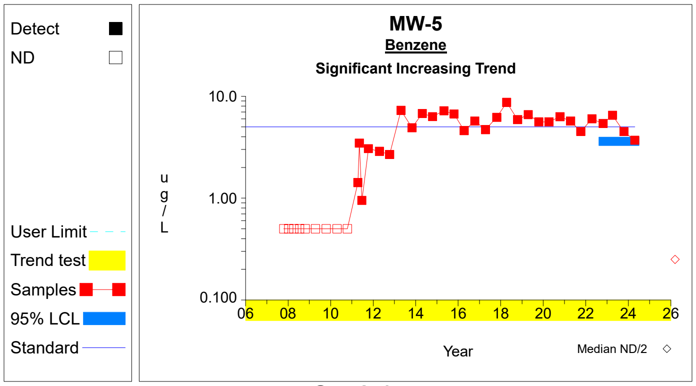
Table 1

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

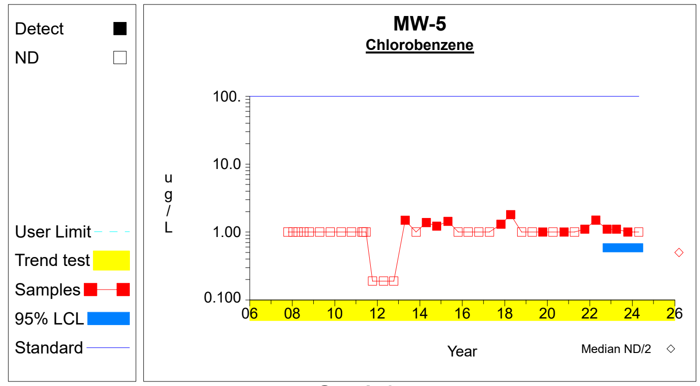
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Benzene	ug/L	MW-5	4	5.025	1.204	1.176	3.609	6.441	5.000	inc
Chlorobenzene	ug/L	MW-5	4	0.925	0.287	1.176	0.587	1.263	100.000	
Chloroethane	ug/L	MW-5	4	4.375	0.826	1.176	3.403	5.347	2800.000	
Cis-1,2-dichloroethylene	ug/L	MW-5	4	1.575	0.330	1.176	1.186	1.964	70.000	
Ethylbenzene	ug/L	MW-5	4	1.050	1.100	1.176	0.000	2.344	700.000	
Toluene	ug/L	MW-5	4	2.000	3.000	1.176	0.000	5.529	1000.000	
Vinyl chloride	ug/L	MW-5	4	0.675	0.350	1.176	0.263	1.087	2.000	

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

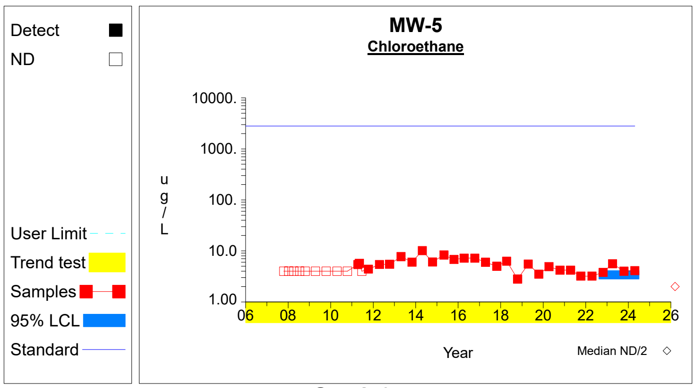
Confidence Limits (Assessment)



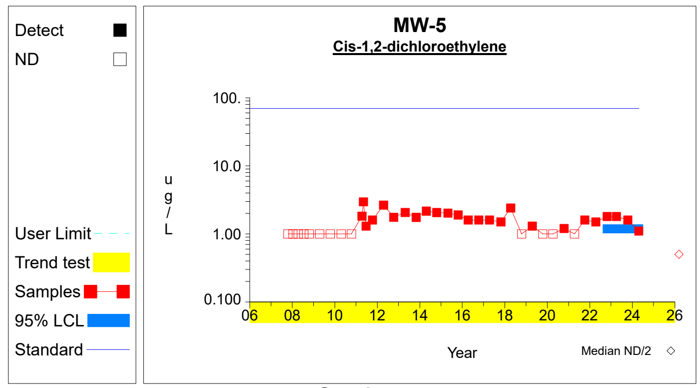
Graph 1



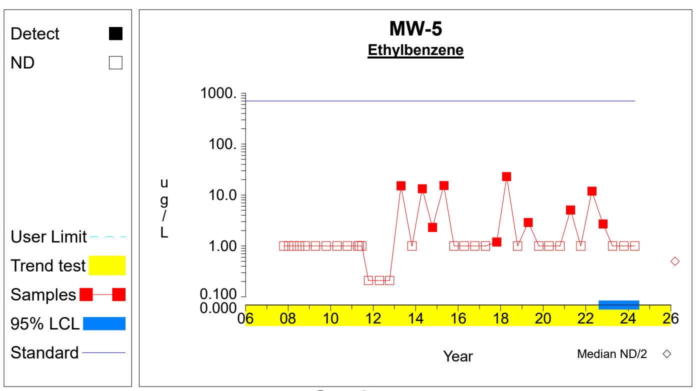
Graph 2



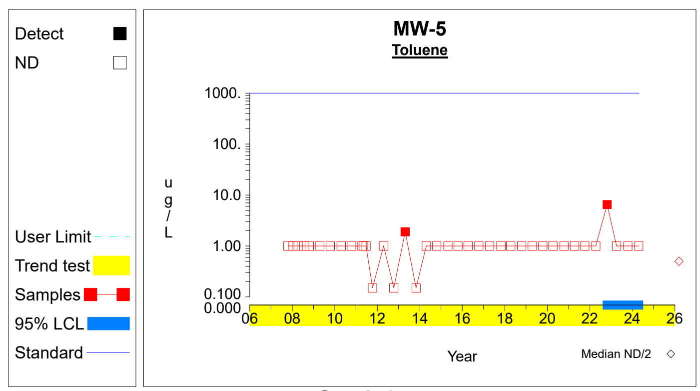
Graph 3



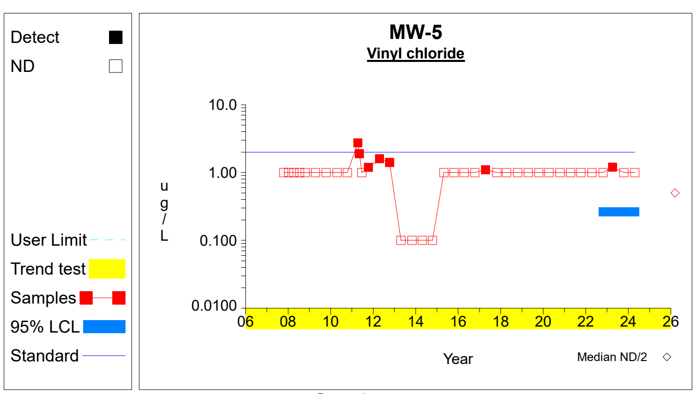
Graph 4



Graph 5



Graph 6



Graph 7

Attachment F

Assessment Statistics for Detected Trace Metals

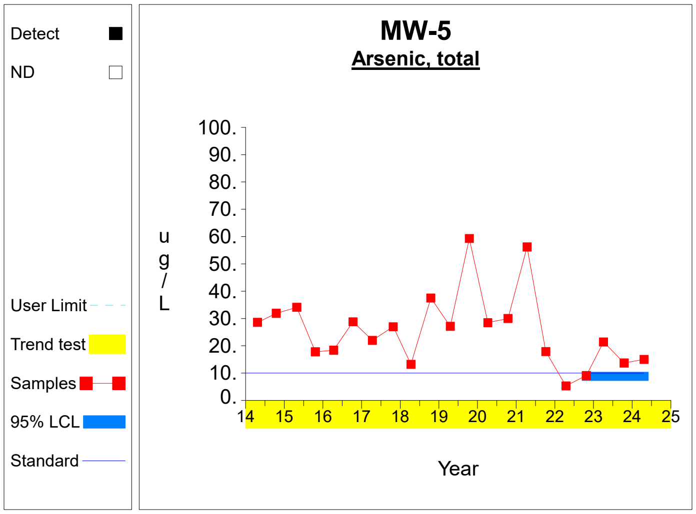
Table 1

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

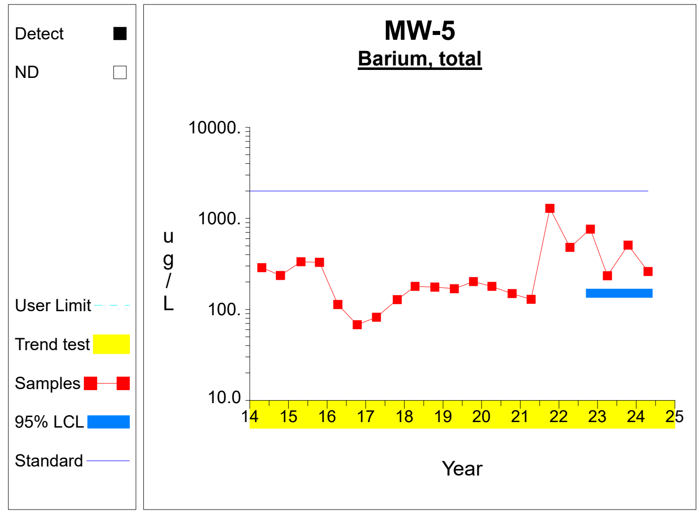
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Arsenic, total	ug/L	MW-5	4	14.800	5.076	1.176	8.829	20.771	10.000	
Barium, total	ug/L	MW-5	4	441.750	247.356	1.176	150.788	732.712	2000.000	
Cobalt, total	ug/L	MW-5	4	0.650	0.173	1.176	0.446	0.854	2.100	dec
Zinc, total	ug/L	MW-5	4	10.000	0.000	1.176	10.000	10.000	2000.000	
Arsenic, total	ug/L	MW-7	4	2.000	0.000	1.176	2.000	2.000	10.000	
Barium, total	ug/L	MW-7	4	36.575	2.320	1.176	33.846	39.304	2000.000	dec
Cobalt, total	ug/L	MW-7	4	0.400	0.400	1.176	0.000	0.871	2.100	
Zinc, total	ug/L	MW-7	4	17.800	9.139	1.176	7.050	28.550	2000.000	dec

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

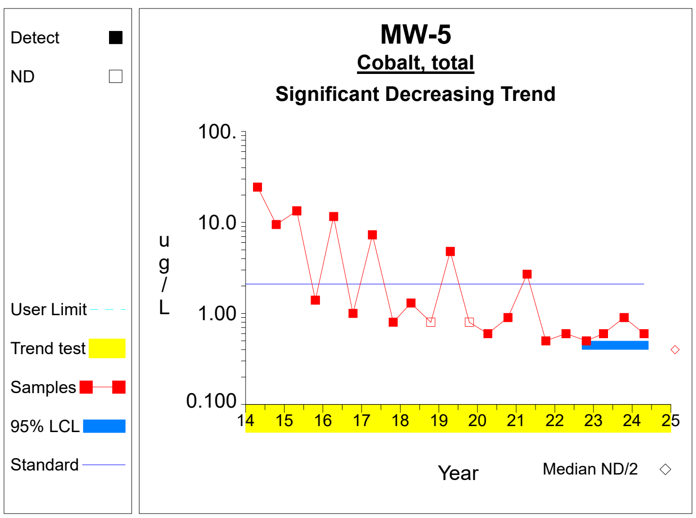
Confidence Limits (Assessment)



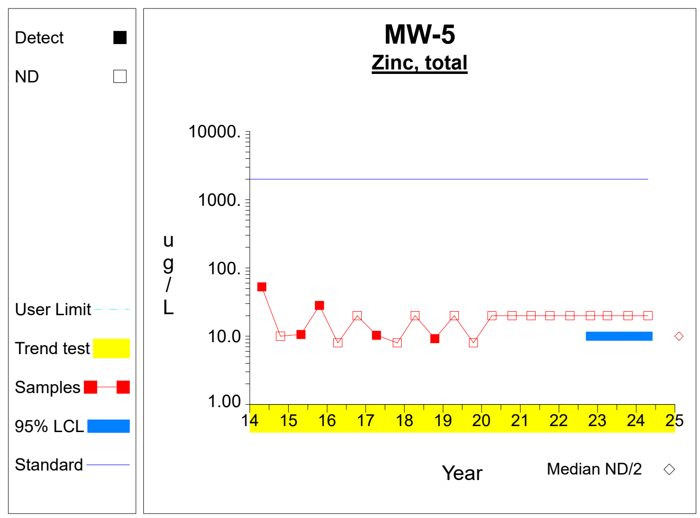
Graph 1



Graph 2

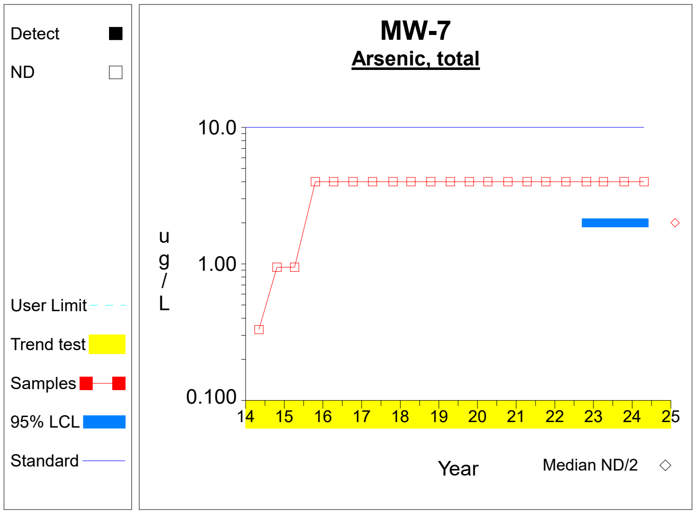


Graph 3

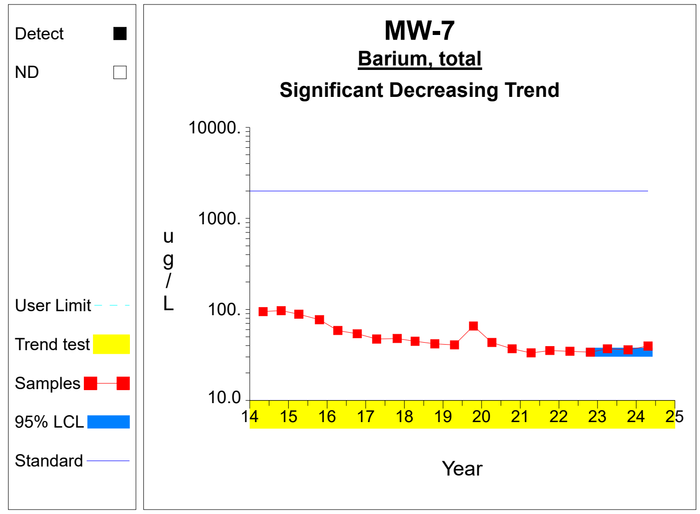


Graph 4

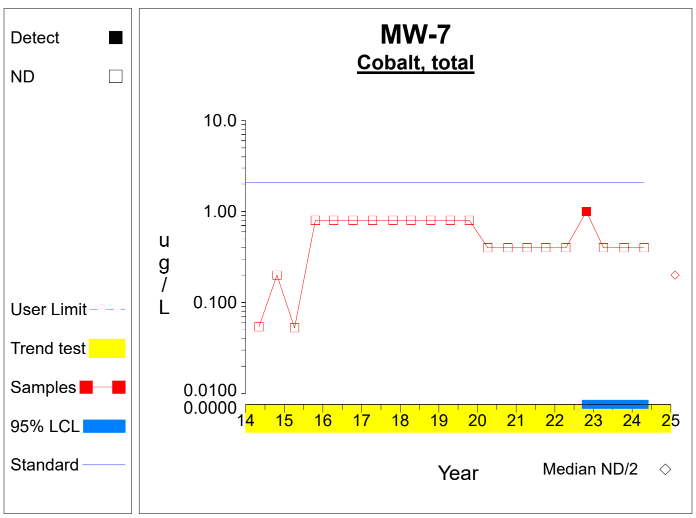
Confidence Limits (Assessment)



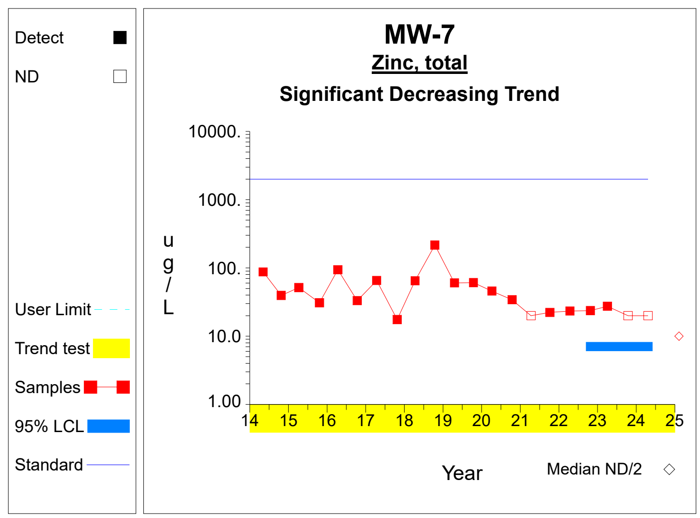
Graph 5



Graph 6



Graph 7



Graph 8

Appendix D.2 – Fall Statistical Evaluation Report

GROUND WATER STATISTICS

FOR THE

FAYETTE COUNTY SANITARY LANDFILL

Second Semi-Annual Monitoring Event in 2024

Prepared for:
Fayette County Solid Waste Management Commission
P.O. Box 269
West Union, IA 52175

Prepared by:
Jeffrey A. Holmgren
Otter Creek Environmental Services, LLC
40W565 Foxwick Court
Elgin, IL 60124
(847) 464-1355

November 2024

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 2024 at the Fayette County Sanitary Landfill in Fayette 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 Fayette County Landfill data. The statistical plan conforms with IAC 567, Chapter 113.10, USEPA Guidance document ("*Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Unified Guidance*", March 2009), and the American Society for Testing and Materials (ASTM) standard D6312-98, *Developing Appropriate Statistical Approaches for Ground-Water Detection Monitoring Programs*.

Ground Water Monitoring Program

The groundwater monitoring network for Fayette County Landfill includes wells MW-12, MW-16, MW-17, MW-21, MW-24, MW-25, MW-26, MW-32, MW-33, MW-5, MW-7, and MW-9. Wells MW-32 and MW-33 replace MW-27 and MW-28 in the monitoring program. 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	*trans*-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	*cis*-1,2-Dichloroethene	1,1,2,2-Tetrachloroethane
Bromoform	*trans*-1,2-Dichloroethene	Tetrachloroethene
Carbon disulfide	1,2-Dichloropropane	Toluene
Carbon tetrachloride	*cis*-1,3-Dichloropropene	1,1,1-Trichloroethane
Chlorobenzene	*trans*-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 2024 are summarized in Attachment A.

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

IAC 567, Chapter 113.10(4) provides several options for statistically evaluating the ground water data at those wells that monitor the open cells or contiguous MSWLF units. The preferred methods for comparing ground water data are using either prediction limits or using control charts. The prediction limit method was applied to the Fayette County 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.

<u>Results of the Interwell Statistics – Shallow Zone</u>

The previous background data used in the statistical analysis included the ground water data collected from ground water wells MW-12, MW-17, and MW-21 during the period from October 2007 through the current data. The October 2007, January 2008, and April 2008 data from wells MW-12 and MW-17 was excluded due to high levels of several metals. The October 2007 data from well MW-21 was excluded due to high levels of several metals. The background data used in this statistical analysis includes the ground water data collected from ground water wells MW-12, MW-17, and MW-21 during the period from October 2014 through the current data. A summary of the background data from monitoring wells MW-12, MW-17, and MW-21, 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-9, MW-16, MW-25, MW-26, and MW-32, compared to the site prediction limits. Prediction limit exceedances are flagged with asterisks. For the most current data, the site prediction limit exceedances detected are summarized in the Table below.

Summary of Prediction Limit Exceedances for the Second Semi-Annual Monitoring Event in 2024

Well	Trace Metal	Result	Prediction Limit	Prediction Limit Type	Verified or Awaiting Verification
MW-26	Cobalt, µg/L	11.8	0.7000	Nonparametric	Verified
MW-32	Arsenic, µg/L	4.2	4.0000	Nonparametric	Awaiting Verification
	Barium, µg/L	326	272.4527	Lognormal	Verified
MW-9	Arsenic, µg/L	5.1	4.0000	Nonparametric	Awaiting Verification
	Barium, µg/L	519	272.4527	Lognormal	Verified
	Cobalt, µg/L	1.7	0.7000	Nonparametric	Verified

The detection frequencies of the parameters in the up and down gradient monitoring wells are summarized in Table 3. With the exception of barium, these constituents are rarely detected in the upgradient wells. With the detection frequencies being less than 50% for all but barium, nonparametric site prediction limits are used for those trace metals.

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 verified exceedances were evaluated against the ground water protection standards (GWPS) using confidence limits (Attachment C). The 95% lower confidence limit (LCL) for the mean of the historical data was used to evaluate whether the regulated unit is in compliance with the ground-water protection standards under 40 CFR 264 (e.g. whether the verified constituent is detected at a significant level above the GWPS). An exceedance is verified if the LCL is above the Regulatory GWPS.

The calculated 95% LCLs are below the respective GWPS.

Volatile Organic Compounds

Volatile Organic Compounds (VOCs) are generally man-made compounds not present in ambient ground water. If VOCs are detected above their statistical limit (i.e., the laboratory PQL or reporting limit), a verification resample will be conducted at the next scheduled sampling event. A statistical exceedance will be indicated if the VOC detection is confirmed by the subsequent monitoring. VOCs detected in the ground water at Fayette County Landfill during the second semi-annual monitoring event in 2024 are summarized below.

Organic compounds detected during the second semi-annual monitoring event in 2024

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting Verification	Groundwater Standard, µg/L
MW-5	1,1-Dichloroethane	2.2	1	Awaiting Verification	140[b]
	Benzene	5.2	1	Verified	5[a]
	Chlorobenzene	1.0	1	Verified	100[a]
	Chloroethane	6.1	1	Verified	2800[b]
	cis-1,2-Dichloroethene	1.1	1	Verified	70[a]
	Methane	1520	25	Awaiting Verification	
	Toluene	2.3	1	Awaiting Verification	1000[a]

a - USEPA MCL
b – Iowa Statewide Standard

Historical VOC detections are summarized in Attachment D. Monitoring well MW-5 is currently in assessment monitoring because of the previous occurrences of VOCs. The verified VOC detections were evaluated against the GWPS using confidence limits (Attachment E). The 95% LCLs for the verified VOC detections are below the respective ground water standards.

Assessment Wells

In addition to VOCs, monitoring wells MW-5 and MW-7 are in assessment from prior trace metals detected. The verified trace metal exceedances were evaluated against the ground water protection standards (GWPS) using confidence limits (Attachment F). The 95% lower confidence limit (LCL) for the mean of the historical data was used to evaluate whether the regulated unit is in compliance with the ground-water protection standards under 40 CFR 264 (e.g. whether the verified constituent is detected at a significant level above the GWPS). An exceedance is verified if the LCL is above the Regulatory GWPS. The 95% LCLs for the verified trace metal detections are below the respective ground water standards.

Attachment A

Summary of the Data obtained during the Second Semi-Annual Monitoring Event in 2024

Table 1

Analytical Data Summary for 10/7/2024

Constituents	Units	MW-12	MW-16	MW-17	MW-21	MW-25	MW-26	MW-32	MW-5	MW-7	MW-9	PECS-1
1,1,1,2-tetrachloroethane	ug/L	<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
1,1,2,2-tetrachloroethane	ug/L	<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-dichloroethane	ug/L	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0
1,1-dichloroethylene	ug/L	<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
1,2-dibromo-3-chloropropane	ug/L	<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
1,2-dichlorobenzene	ug/L	<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
1,2-dichloropropane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
2-butanone	ug/L	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10
2-hexanone	ug/L	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone	ug/L	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5
Alkalinity, as CaCO3	mg/L								138			
Antimony, total	ug/L	<2	<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	4.2	10.6	<4.0	5.1	
Barium, total	ug/L	113.0	140.0	97.6	208.0	35.6	41.0	326.0	608.0	59.7	519.0	
Benzene	ug/L	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	5.2	<1.0	<1.0	<1.0
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Bromochloromethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	
Carbon disulfide	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<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	6.1	<1.0	<1.0	<1.0
Chloroform	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	
Cis-1,2-dichloroethylene	ug/L	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0
Cis-1,3-dichloropropene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<.4	<.4	<.4	2.9	<.4	11.8	.4	1.4	.8	1.7	
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Dibromochloromethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Ethane	ug/L								<5			
Ethene	ug/L								<5			
Ethylbenzene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Iodomethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Methane	ug/L								1520			
Methylene chloride	ug/L	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	<4.0	<4.0	<4.0	11.6	8.1	8.7	<4.0	5.1	6.4	9.7	
pH	pH								6.3			
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Styrene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L								.28			
Tetrachloroethylene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Toluene	ug/L	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<1.0
Trans-1,2-dichloroethylene	ug/L	<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
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	
Vinyl acetate	ug/L	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<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	39.5	<20.0	

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

Attachment B

Summary Tables and Graphs for the Interwell Comparisons – Shallow Zone

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW-12	10/24/2014	ND	0.1610		*
Antimony, total	ug/L	MW-12	04/07/2015	ND	0.1610		*
Antimony, total	ug/L	MW-12	10/20/2015	ND	2.0000		
Antimony, total	ug/L	MW-12	04/11/2016	ND	2.0000		
Antimony, total	ug/L	MW-12	10/12/2016		6.2000		*
Antimony, total	ug/L	MW-12	04/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-12	10/25/2017	ND	2.0000		
Antimony, total	ug/L	MW-12	04/11/2018	ND	2.0000		
Antimony, total	ug/L	MW-12	10/16/2018	ND	2.0000		
Antimony, total	ug/L	MW-12	04/17/2019	ND	2.0000		
Antimony, total	ug/L	MW-12	10/15/2019	ND	2.0000		
Antimony, total	ug/L	MW-12	04/06/2020	ND	2.0000		
Antimony, total	ug/L	MW-12	10/13/2020	ND	2.0000		
Antimony, total	ug/L	MW-12	04/12/2021	ND	2.0000		
Antimony, total	ug/L	MW-12	10/06/2021	ND	2.0000		
Antimony, total	ug/L	MW-12	04/14/2022	ND	2.0000		
Antimony, total	ug/L	MW-12	10/25/2022	ND	2.0000		
Antimony, total	ug/L	MW-12	04/03/2023	ND	2.0000		
Antimony, total	ug/L	MW-12	10/16/2023	ND	2.0000		
Antimony, total	ug/L	MW-12	04/22/2024	ND	2.0000		
Antimony, total	ug/L	MW-12	10/07/2024	ND	2.0000		
Arsenic, total	ug/L	MW-12	10/24/2014	ND	0.9450		*
Arsenic, total	ug/L	MW-12	04/07/2015	ND	0.9450		*
Arsenic, total	ug/L	MW-12	10/20/2015	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/11/2016	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/12/2016	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/25/2017	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/11/2018	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/16/2018	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/17/2019	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/15/2019	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/06/2020	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/13/2020	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/12/2021	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/06/2021	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/25/2022	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/03/2023	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/16/2023	ND	4.0000		
Arsenic, total	ug/L	MW-12	04/22/2024	ND	4.0000		
Arsenic, total	ug/L	MW-12	10/07/2024	ND	4.0000		
Barium, total	ug/L	MW-12	10/24/2014		161.0000		
Barium, total	ug/L	MW-12	04/07/2015		159.0000		
Barium, total	ug/L	MW-12	10/20/2015		137.0000		
Barium, total	ug/L	MW-12	04/11/2016		174.0000		
Barium, total	ug/L	MW-12	10/12/2016		129.0000		
Barium, total	ug/L	MW-12	04/13/2017		212.0000		
Barium, total	ug/L	MW-12	10/25/2017		152.0000		
Barium, total	ug/L	MW-12	04/11/2018		190.0000		
Barium, total	ug/L	MW-12	10/16/2018		116.0000		
Barium, total	ug/L	MW-12	04/17/2019		205.0000		
Barium, total	ug/L	MW-12	10/15/2019		152.0000		
Barium, total	ug/L	MW-12	04/06/2020		108.0000		
Barium, total	ug/L	MW-12	10/13/2020		111.0000		
Barium, total	ug/L	MW-12	04/12/2021		90.8000		
Barium, total	ug/L	MW-12	10/06/2021		105.0000		
Barium, total	ug/L	MW-12	04/14/2022		90.2000		
Barium, total	ug/L	MW-12	10/25/2022		115.0000		
Barium, total	ug/L	MW-12	04/03/2023		99.6000		
Barium, total	ug/L	MW-12	10/16/2023		129.0000		
Barium, total	ug/L	MW-12	04/22/2024		110.0000		
Barium, total	ug/L	MW-12	10/07/2024		113.0000		
Beryllium, total	ug/L	MW-12	10/24/2014	ND	0.0390		*
Beryllium, total	ug/L	MW-12	04/07/2015	ND	0.0390		*
Beryllium, total	ug/L	MW-12	10/20/2015	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/11/2016	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/12/2016	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/25/2017	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/11/2018	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/16/2018	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/17/2019	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/15/2019	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-12	04/06/2020	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/13/2020	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/12/2021	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/06/2021	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/25/2022	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/03/2023	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/16/2023	ND	4.0000		
Beryllium, total	ug/L	MW-12	04/22/2024	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/07/2024	ND	4.0000		
Cadmium, total	ug/L	MW-12	10/24/2014	ND	0.1120		*
Cadmium, total	ug/L	MW-12	04/07/2015	ND	0.1120		*
Cadmium, total	ug/L	MW-12	10/20/2015	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/11/2016	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/12/2016	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/13/2017	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/25/2017	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/11/2018	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/16/2018	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/17/2019	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/15/2019	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/06/2020	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/13/2020	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/12/2021	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/06/2021	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/25/2022	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/03/2023	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/16/2023	ND	0.8000		
Cadmium, total	ug/L	MW-12	04/22/2024	ND	0.8000		
Cadmium, total	ug/L	MW-12	10/07/2024	ND	0.8000		
Chromium, total	ug/L	MW-12	10/24/2014	ND	1.2400		*
Chromium, total	ug/L	MW-12	04/07/2015	ND	1.2400		*
Chromium, total	ug/L	MW-12	10/20/2015	ND	8.0000		
Chromium, total	ug/L	MW-12	04/11/2016	ND	8.0000		
Chromium, total	ug/L	MW-12	10/12/2016	ND	8.0000		
Chromium, total	ug/L	MW-12	04/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-12	10/25/2017	ND	8.0000		
Chromium, total	ug/L	MW-12	04/11/2018	ND	8.0000		
Chromium, total	ug/L	MW-12	10/16/2018	ND	8.0000		
Chromium, total	ug/L	MW-12	04/17/2019	ND	8.0000		
Chromium, total	ug/L	MW-12	10/15/2019	ND	8.0000		
Chromium, total	ug/L	MW-12	04/06/2020	ND	8.0000		
Chromium, total	ug/L	MW-12	10/13/2020	ND	8.0000		
Chromium, total	ug/L	MW-12	04/12/2021	ND	8.0000		
Chromium, total	ug/L	MW-12	10/06/2021	ND	8.0000		
Chromium, total	ug/L	MW-12	04/14/2022	ND	8.0000		
Chromium, total	ug/L	MW-12	10/25/2022	ND	8.0000		
Chromium, total	ug/L	MW-12	04/03/2023	ND	8.0000		
Chromium, total	ug/L	MW-12	10/16/2023	ND	8.0000		
Chromium, total	ug/L	MW-12	04/22/2024	ND	8.0000		
Chromium, total	ug/L	MW-12	10/07/2024	ND	8.0000		
Cobalt, total	ug/L	MW-12	10/24/2014	ND	0.0528		*
Cobalt, total	ug/L	MW-12	04/07/2015	ND	0.0528		*
Cobalt, total	ug/L	MW-12	10/20/2015	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-12	04/11/2016	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-12	10/12/2016	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-12	04/13/2017	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-12	10/25/2017	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-12	04/11/2018	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-12	10/16/2018	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-12	04/17/2019	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-12	10/15/2019	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-12	04/06/2020	ND	0.4000		
Cobalt, total	ug/L	MW-12	10/13/2020	ND	0.4000		
Cobalt, total	ug/L	MW-12	04/12/2021	ND	0.4000		
Cobalt, total	ug/L	MW-12	10/06/2021	ND	0.4000		
Cobalt, total	ug/L	MW-12	04/14/2022	ND	0.4000		
Cobalt, total	ug/L	MW-12	10/25/2022	ND	0.4000		
Cobalt, total	ug/L	MW-12	04/03/2023	ND	0.4000		
Cobalt, total	ug/L	MW-12	10/16/2023		0.7000		
Cobalt, total	ug/L	MW-12	04/22/2024	ND	0.4000		
Cobalt, total	ug/L	MW-12	10/07/2024	ND	0.4000		
Copper, total	ug/L	MW-12	10/24/2014		5.7500		

*   - 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-12	04/07/2015	ND	0.4850		*
Copper, total	ug/L	MW-12	10/20/2015	ND	4.0000		
Copper, total	ug/L	MW-12	04/11/2016	ND	4.0000		
Copper, total	ug/L	MW-12	10/12/2016	ND	4.0000		
Copper, total	ug/L	MW-12	04/13/2017	ND	4.0000		
Copper, total	ug/L	MW-12	10/25/2017	ND	4.0000		
Copper, total	ug/L	MW-12	04/11/2018	ND	4.0000		
Copper, total	ug/L	MW-12	10/16/2018	ND	4.0000		
Copper, total	ug/L	MW-12	04/17/2019	ND	4.0000		
Copper, total	ug/L	MW-12	10/15/2019	ND	4.0000		
Copper, total	ug/L	MW-12	04/06/2020	ND	4.0000		
Copper, total	ug/L	MW-12	10/13/2020	ND	4.0000		
Copper, total	ug/L	MW-12	04/12/2021	ND	4.0000		
Copper, total	ug/L	MW-12	10/06/2021	ND	4.0000		
Copper, total	ug/L	MW-12	04/14/2022	ND	4.0000		
Copper, total	ug/L	MW-12	10/25/2022	ND	4.0000		
Copper, total	ug/L	MW-12	04/03/2023	ND	4.0000		
Copper, total	ug/L	MW-12	10/16/2023	ND	4.0000		
Copper, total	ug/L	MW-12	04/22/2024	ND	4.0000		
Copper, total	ug/L	MW-12	10/07/2024	ND	4.0000		
Lead, total	ug/L	MW-12	10/24/2014	ND	0.0967		*
Lead, total	ug/L	MW-12	04/07/2015	ND	0.0967		*
Lead, total	ug/L	MW-12	10/20/2015	ND	4.0000		
Lead, total	ug/L	MW-12	04/11/2016	ND	4.0000		
Lead, total	ug/L	MW-12	10/12/2016	ND	4.0000		
Lead, total	ug/L	MW-12	04/13/2017	ND	4.0000		
Lead, total	ug/L	MW-12	10/25/2017	ND	4.0000		
Lead, total	ug/L	MW-12	04/11/2018	ND	4.0000		
Lead, total	ug/L	MW-12	10/16/2018	ND	4.0000		
Lead, total	ug/L	MW-12	04/17/2019	ND	4.0000		
Lead, total	ug/L	MW-12	10/15/2019	ND	4.0000		
Lead, total	ug/L	MW-12	04/06/2020	ND	4.0000		
Lead, total	ug/L	MW-12	10/13/2020	ND	4.0000		
Lead, total	ug/L	MW-12	04/12/2021	ND	4.0000		
Lead, total	ug/L	MW-12	10/06/2021	ND	4.0000		
Lead, total	ug/L	MW-12	04/14/2022	ND	4.0000		
Lead, total	ug/L	MW-12	10/25/2022	ND	4.0000		
Lead, total	ug/L	MW-12	04/03/2023	ND	4.0000		
Lead, total	ug/L	MW-12	10/16/2023	ND	4.0000		
Lead, total	ug/L	MW-12	04/22/2024	ND	4.0000		
Lead, total	ug/L	MW-12	10/07/2024	ND	4.0000		
Nickel, total	ug/L	MW-12	10/24/2014	ND	1.0000		*
Nickel, total	ug/L	MW-12	04/07/2015	ND	0.5810		*
Nickel, total	ug/L	MW-12	10/20/2015	ND	4.0000		
Nickel, total	ug/L	MW-12	04/11/2016	ND	4.0000		
Nickel, total	ug/L	MW-12	10/12/2016	ND	4.0000		
Nickel, total	ug/L	MW-12	04/13/2017	ND	4.0000		
Nickel, total	ug/L	MW-12	10/25/2017	ND	4.0000		
Nickel, total	ug/L	MW-12	04/11/2018	ND	4.0000		
Nickel, total	ug/L	MW-12	10/16/2018	ND	4.0000		
Nickel, total	ug/L	MW-12	04/17/2019	ND	4.0000		
Nickel, total	ug/L	MW-12	10/15/2019	ND	4.0000		
Nickel, total	ug/L	MW-12	04/06/2020	ND	4.0000		
Nickel, total	ug/L	MW-12	10/13/2020	ND	4.0000		
Nickel, total	ug/L	MW-12	04/12/2021	ND	4.0000		
Nickel, total	ug/L	MW-12	10/06/2021	ND	4.0000		
Nickel, total	ug/L	MW-12	04/14/2022	ND	4.0000		
Nickel, total	ug/L	MW-12	10/25/2022	ND	4.0000		
Nickel, total	ug/L	MW-12	04/03/2023	ND	4.0000		
Nickel, total	ug/L	MW-12	10/16/2023	ND	4.0000		
Nickel, total	ug/L	MW-12	04/22/2024	ND	4.0000		
Nickel, total	ug/L	MW-12	10/07/2024	ND	4.0000		
Selenium, total	ug/L	MW-12	10/24/2014	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-12	04/07/2015	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-12	10/20/2015	ND	4.0000		
Selenium, total	ug/L	MW-12	04/11/2016	ND	4.0000		
Selenium, total	ug/L	MW-12	10/12/2016	ND	4.0000		
Selenium, total	ug/L	MW-12	04/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-12	10/25/2017	ND	4.0000		
Selenium, total	ug/L	MW-12	04/11/2018	ND	4.0000		
Selenium, total	ug/L	MW-12	10/16/2018	ND	4.0000		
Selenium, total	ug/L	MW-12	04/17/2019	ND	4.0000		
Selenium, total	ug/L	MW-12	10/15/2019	ND	4.0000		
Selenium, total	ug/L	MW-12	04/06/2020	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	
Selenium, total	ug/L	MW-12	10/13/2020	ND	4.0000		
Selenium, total	ug/L	MW-12	04/12/2021	ND	4.0000		
Selenium, total	ug/L	MW-12	10/06/2021	ND	4.0000		
Selenium, total	ug/L	MW-12	04/14/2022	ND	4.0000		
Selenium, total	ug/L	MW-12	10/25/2022	ND	4.0000		
Selenium, total	ug/L	MW-12	04/03/2023	ND	4.0000		
Selenium, total	ug/L	MW-12	10/16/2023	ND	4.0000		
Selenium, total	ug/L	MW-12	04/22/2024	ND	4.0000		
Selenium, total	ug/L	MW-12	10/07/2024	ND	4.0000		
Silver, total	ug/L	MW-12	10/24/2014	ND	0.0420		*
Silver, total	ug/L	MW-12	04/07/2015	ND	0.0420		*
Silver, total	ug/L	MW-12	10/20/2015	ND	4.0000		
Silver, total	ug/L	MW-12	04/11/2016	ND	4.0000		
Silver, total	ug/L	MW-12	10/12/2016	ND	4.0000		
Silver, total	ug/L	MW-12	04/13/2017	ND	4.0000		
Silver, total	ug/L	MW-12	10/25/2017	ND	4.0000		
Silver, total	ug/L	MW-12	04/11/2018	ND	4.0000		
Silver, total	ug/L	MW-12	10/16/2018	ND	4.0000		
Silver, total	ug/L	MW-12	04/17/2019	ND	4.0000		
Silver, total	ug/L	MW-12	10/15/2019	ND	4.0000		
Silver, total	ug/L	MW-12	04/06/2020	ND	4.0000		
Silver, total	ug/L	MW-12	10/13/2020	ND	4.0000		
Silver, total	ug/L	MW-12	04/12/2021	ND	4.0000		
Silver, total	ug/L	MW-12	10/06/2021	ND	4.0000		
Silver, total	ug/L	MW-12	04/14/2022	ND	4.0000		
Silver, total	ug/L	MW-12	10/25/2022	ND	4.0000		
Silver, total	ug/L	MW-12	04/03/2023	ND	4.0000		
Silver, total	ug/L	MW-12	10/16/2023	ND	4.0000		
Silver, total	ug/L	MW-12	04/22/2024	ND	4.0000		
Silver, total	ug/L	MW-12	10/07/2024	ND	4.0000		
Thallium, total	ug/L	MW-12	10/24/2014	ND	0.0325		*
Thallium, total	ug/L	MW-12	04/07/2015	ND	0.0325		*
Thallium, total	ug/L	MW-12	10/20/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-12	04/11/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-12	10/12/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-12	04/13/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-12	10/25/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-12	04/11/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-12	10/16/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-12	04/17/2019	ND	2.0000		
Thallium, total	ug/L	MW-12	10/15/2019	ND	2.0000		
Thallium, total	ug/L	MW-12	04/06/2020	ND	2.0000		
Thallium, total	ug/L	MW-12	10/13/2020	ND	2.0000		
Thallium, total	ug/L	MW-12	04/12/2021	ND	2.0000		
Thallium, total	ug/L	MW-12	10/06/2021	ND	2.0000		
Thallium, total	ug/L	MW-12	04/14/2022	ND	2.0000		
Thallium, total	ug/L	MW-12	10/25/2022	ND	2.0000		
Thallium, total	ug/L	MW-12	04/03/2023	ND	2.0000		
Thallium, total	ug/L	MW-12	10/16/2023	ND	2.0000		
Thallium, total	ug/L	MW-12	04/22/2024	ND	2.0000		
Thallium, total	ug/L	MW-12	10/07/2024	ND	2.0000		
Vanadium, total	ug/L	MW-12	10/24/2014	ND	1.0000		*
Vanadium, total	ug/L	MW-12	04/07/2015	ND	0.4490		*
Vanadium, total	ug/L	MW-12	10/20/2015	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/11/2016	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/12/2016	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/25/2017	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/11/2018	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/16/2018	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/17/2019	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/15/2019	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/06/2020	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/13/2020	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/12/2021	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/06/2021	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/25/2022	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/03/2023	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/16/2023	ND	20.0000		
Vanadium, total	ug/L	MW-12	04/22/2024	ND	20.0000		
Vanadium, total	ug/L	MW-12	10/07/2024	ND	20.0000		
Zinc, total	ug/L	MW-12	10/24/2014	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-12	04/07/2015	ND	6.9500	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-12	10/20/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-12	04/11/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-12	10/12/2016	ND	20.0000		
Zinc, total	ug/L	MW-12	04/13/2017		8.0000		
Zinc, total	ug/L	MW-12	10/25/2017		8.9000		
Zinc, total	ug/L	MW-12	04/11/2018	ND	20.0000		
Zinc, total	ug/L	MW-12	10/16/2018		16.6000		
Zinc, total	ug/L	MW-12	04/17/2019	ND	20.0000		
Zinc, total	ug/L	MW-12	10/15/2019	ND	20.0000		
Zinc, total	ug/L	MW-12	04/06/2020	ND	20.0000		
Zinc, total	ug/L	MW-12	10/13/2020	ND	20.0000		
Zinc, total	ug/L	MW-12	04/12/2021	ND	20.0000		
Zinc, total	ug/L	MW-12	10/06/2021	ND	20.0000		
Zinc, total	ug/L	MW-12	04/14/2022	ND	20.0000		
Zinc, total	ug/L	MW-12	10/25/2022	ND	20.0000		
Zinc, total	ug/L	MW-12	04/03/2023	ND	20.0000		
Zinc, total	ug/L	MW-12	10/16/2023	ND	20.0000		
Zinc, total	ug/L	MW-12	04/22/2024	ND	20.0000		
Zinc, total	ug/L	MW-12	10/07/2024	ND	20.0000		
Antimony, total	ug/L	MW-17	10/24/2014	ND	0.5410		*
Antimony, total	ug/L	MW-17	04/07/2015	ND	0.1610		*
Antimony, total	ug/L	MW-17	10/20/2015	ND	2.0000		
Antimony, total	ug/L	MW-17	04/11/2016	ND	2.0000		
Antimony, total	ug/L	MW-17	10/12/2016	ND	2.0000		
Antimony, total	ug/L	MW-17	04/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-17	10/25/2017	ND	2.0000		
Antimony, total	ug/L	MW-17	04/11/2018	ND	2.0000		
Antimony, total	ug/L	MW-17	10/16/2018	ND	2.0000		
Antimony, total	ug/L	MW-17	04/17/2019	ND	2.0000		
Antimony, total	ug/L	MW-17	10/15/2019	ND	2.0000		
Antimony, total	ug/L	MW-17	04/06/2020	ND	2.0000		
Antimony, total	ug/L	MW-17	10/13/2020	ND	2.0000		
Antimony, total	ug/L	MW-17	04/12/2021	ND	2.0000		
Antimony, total	ug/L	MW-17	10/06/2021	ND	2.0000		
Antimony, total	ug/L	MW-17	04/14/2022	ND	2.0000		
Antimony, total	ug/L	MW-17	10/25/2022	ND	2.0000		
Antimony, total	ug/L	MW-17	04/03/2023	ND	2.0000		
Antimony, total	ug/L	MW-17	10/16/2023	ND	2.0000		
Antimony, total	ug/L	MW-17	04/22/2024	ND	2.0000		
Antimony, total	ug/L	MW-17	10/07/2024	ND	2.0000		
Arsenic, total	ug/L	MW-17	10/24/2014	ND	0.9450		*
Arsenic, total	ug/L	MW-17	04/07/2015	ND	0.9450		*
Arsenic, total	ug/L	MW-17	10/20/2015	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/11/2016	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/12/2016	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/25/2017	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/11/2018	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/16/2018	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/17/2019	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/15/2019	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/06/2020	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/13/2020	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/12/2021	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/06/2021	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/25/2022	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/03/2023	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/16/2023	ND	4.0000		
Arsenic, total	ug/L	MW-17	04/22/2024	ND	4.0000		
Arsenic, total	ug/L	MW-17	10/07/2024	ND	4.0000		
Barium, total	ug/L	MW-17	10/24/2014		104.0000		
Barium, total	ug/L	MW-17	04/07/2015		106.0000		
Barium, total	ug/L	MW-17	10/20/2015		93.0000		
Barium, total	ug/L	MW-17	04/11/2016		104.0000		
Barium, total	ug/L	MW-17	10/12/2016		93.6000		
Barium, total	ug/L	MW-17	04/13/2017		107.0000		
Barium, total	ug/L	MW-17	10/25/2017		98.8000		
Barium, total	ug/L	MW-17	04/11/2018		102.0000		
Barium, total	ug/L	MW-17	10/16/2018		113.0000		
Barium, total	ug/L	MW-17	04/17/2019		109.0000		
Barium, total	ug/L	MW-17	10/15/2019		108.0000		
Barium, total	ug/L	MW-17	04/06/2020		110.0000		
Barium, total	ug/L	MW-17	10/13/2020		104.0000		

* - 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-17	04/12/2021		109.0000		
Barium, total	ug/L	MW-17	10/06/2021		102.0000		
Barium, total	ug/L	MW-17	04/14/2022		115.0000		
Barium, total	ug/L	MW-17	10/25/2022		123.0000		
Barium, total	ug/L	MW-17	04/03/2023		109.0000		
Barium, total	ug/L	MW-17	10/16/2023		111.0000		
Barium, total	ug/L	MW-17	04/22/2024		103.0000		
Barium, total	ug/L	MW-17	10/07/2024		97.6000		
Beryllium, total	ug/L	MW-17	10/24/2014	ND	0.0390		*
Beryllium, total	ug/L	MW-17	04/07/2015	ND	0.0390		*
Beryllium, total	ug/L	MW-17	10/20/2015	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/11/2016	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/12/2016	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/25/2017	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/11/2018	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/16/2018	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/17/2019	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/15/2019	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/06/2020	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/13/2020	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/12/2021	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/06/2021	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/25/2022	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/03/2023	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/16/2023	ND	4.0000		
Beryllium, total	ug/L	MW-17	04/22/2024	ND	4.0000		
Beryllium, total	ug/L	MW-17	10/07/2024	ND	4.0000		
Cadmium, total	ug/L	MW-17	10/24/2014	ND	0.1120		*
Cadmium, total	ug/L	MW-17	04/07/2015	ND	0.1120		*
Cadmium, total	ug/L	MW-17	10/20/2015	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/11/2016	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/12/2016	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/13/2017	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/25/2017	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/11/2018	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/16/2018	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/17/2019	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/15/2019	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/06/2020	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/13/2020	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/12/2021	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/06/2021	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/25/2022	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/03/2023	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/16/2023	ND	0.8000		
Cadmium, total	ug/L	MW-17	04/22/2024	ND	0.8000		
Cadmium, total	ug/L	MW-17	10/07/2024	ND	0.8000		
Chromium, total	ug/L	MW-17	10/24/2014	ND	1.2400		*
Chromium, total	ug/L	MW-17	04/07/2015	ND	1.2400		*
Chromium, total	ug/L	MW-17	10/20/2015	ND	8.0000		
Chromium, total	ug/L	MW-17	04/11/2016	ND	8.0000		
Chromium, total	ug/L	MW-17	10/12/2016	ND	8.0000		
Chromium, total	ug/L	MW-17	04/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-17	10/25/2017	ND	8.0000		
Chromium, total	ug/L	MW-17	04/11/2018	ND	8.0000		
Chromium, total	ug/L	MW-17	10/16/2018	ND	8.0000		
Chromium, total	ug/L	MW-17	04/17/2019	ND	8.0000		
Chromium, total	ug/L	MW-17	10/15/2019	ND	8.0000		
Chromium, total	ug/L	MW-17	04/06/2020	ND	8.0000		
Chromium, total	ug/L	MW-17	10/13/2020	ND	8.0000		
Chromium, total	ug/L	MW-17	04/12/2021	ND	8.0000		
Chromium, total	ug/L	MW-17	10/06/2021	ND	8.0000		
Chromium, total	ug/L	MW-17	04/14/2022	ND	8.0000		
Chromium, total	ug/L	MW-17	10/25/2022	ND	8.0000		
Chromium, total	ug/L	MW-17	04/03/2023	ND	8.0000		
Chromium, total	ug/L	MW-17	10/16/2023	ND	8.0000		
Chromium, total	ug/L	MW-17	04/22/2024	ND	8.0000		
Chromium, total	ug/L	MW-17	10/07/2024	ND	8.0000		
Cobalt, total	ug/L	MW-17	10/24/2014	ND	0.2000	0.4000	**
Cobalt, total	ug/L	MW-17	04/07/2015	ND	0.2000	0.4000	**
Cobalt, total	ug/L	MW-17	10/20/2015	ND	0.8000	0.4000	**

* - 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	
Cobalt, total	ug/L	MW-17	04/11/2016	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-17	10/12/2016	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-17	04/13/2017	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-17	10/25/2017	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-17	04/11/2018	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-17	10/16/2018	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-17	04/17/2019	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-17	10/15/2019	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-17	04/06/2020	ND	0.4000		
Cobalt, total	ug/L	MW-17	10/13/2020	ND	0.4000		
Cobalt, total	ug/L	MW-17	04/12/2021	ND	0.4000		
Cobalt, total	ug/L	MW-17	10/06/2021	ND	0.4000		
Cobalt, total	ug/L	MW-17	04/14/2022	ND	0.4000		
Cobalt, total	ug/L	MW-17	10/25/2022	ND	0.4000		
Cobalt, total	ug/L	MW-17	04/03/2023	ND	0.4000		
Cobalt, total	ug/L	MW-17	10/16/2023	ND	0.4000		
Cobalt, total	ug/L	MW-17	04/22/2024	ND	0.4000		
Cobalt, total	ug/L	MW-17	10/07/2024	ND	0.4000		
Copper, total	ug/L	MW-17	10/24/2014		3.6500		
Copper, total	ug/L	MW-17	04/07/2015	ND	0.4850		*
Copper, total	ug/L	MW-17	10/20/2015	ND	4.0000		
Copper, total	ug/L	MW-17	04/11/2016	ND	4.0000		
Copper, total	ug/L	MW-17	10/12/2016	ND	4.0000		
Copper, total	ug/L	MW-17	04/13/2017	ND	4.0000		
Copper, total	ug/L	MW-17	10/25/2017	ND	4.0000		
Copper, total	ug/L	MW-17	04/11/2018	ND	4.0000		
Copper, total	ug/L	MW-17	10/16/2018		7.9000		
Copper, total	ug/L	MW-17	04/17/2019	ND	4.0000		
Copper, total	ug/L	MW-17	10/15/2019	ND	4.0000		
Copper, total	ug/L	MW-17	04/06/2020	ND	4.0000		
Copper, total	ug/L	MW-17	10/13/2020	ND	4.0000		
Copper, total	ug/L	MW-17	04/12/2021	ND	4.0000		
Copper, total	ug/L	MW-17	10/06/2021	ND	4.0000		
Copper, total	ug/L	MW-17	04/14/2022	ND	4.0000		
Copper, total	ug/L	MW-17	10/25/2022	ND	4.0000		
Copper, total	ug/L	MW-17	04/03/2023	ND	4.0000		
Copper, total	ug/L	MW-17	10/16/2023	ND	4.0000		
Copper, total	ug/L	MW-17	04/22/2024	ND	4.0000		
Copper, total	ug/L	MW-17	10/07/2024	ND	4.0000		
Lead, total	ug/L	MW-17	10/24/2014	ND	0.5000		*
Lead, total	ug/L	MW-17	04/07/2015	ND	0.5000		*
Lead, total	ug/L	MW-17	10/20/2015	ND	4.0000		
Lead, total	ug/L	MW-17	04/11/2016	ND	4.0000		
Lead, total	ug/L	MW-17	10/12/2016	ND	4.0000		
Lead, total	ug/L	MW-17	04/13/2017	ND	4.0000		
Lead, total	ug/L	MW-17	10/25/2017	ND	4.0000		
Lead, total	ug/L	MW-17	04/11/2018	ND	4.0000		
Lead, total	ug/L	MW-17	10/16/2018		7.3000		*
Lead, total	ug/L	MW-17	04/17/2019	ND	4.0000		
Lead, total	ug/L	MW-17	10/15/2019	ND	4.0000		
Lead, total	ug/L	MW-17	04/06/2020	ND	4.0000		
Lead, total	ug/L	MW-17	10/13/2020	ND	4.0000		
Lead, total	ug/L	MW-17	04/12/2021	ND	4.0000		
Lead, total	ug/L	MW-17	10/06/2021	ND	4.0000		
Lead, total	ug/L	MW-17	04/14/2022	ND	4.0000		
Lead, total	ug/L	MW-17	10/25/2022	ND	4.0000		
Lead, total	ug/L	MW-17	04/03/2023	ND	4.0000		
Lead, total	ug/L	MW-17	10/16/2023	ND	4.0000		
Lead, total	ug/L	MW-17	04/22/2024	ND	4.0000		
Lead, total	ug/L	MW-17	10/07/2024	ND	4.0000		
Nickel, total	ug/L	MW-17	10/24/2014	ND	1.0000		*
Nickel, total	ug/L	MW-17	04/07/2015	ND	0.5810		*
Nickel, total	ug/L	MW-17	10/20/2015	ND	4.0000		
Nickel, total	ug/L	MW-17	04/11/2016	ND	4.0000		
Nickel, total	ug/L	MW-17	10/12/2016	ND	4.0000		
Nickel, total	ug/L	MW-17	04/13/2017	ND	4.0000		
Nickel, total	ug/L	MW-17	10/25/2017	ND	4.0000		
Nickel, total	ug/L	MW-17	04/11/2018	ND	4.0000		
Nickel, total	ug/L	MW-17	10/16/2018	ND	4.0000		
Nickel, total	ug/L	MW-17	04/17/2019	ND	4.0000		
Nickel, total	ug/L	MW-17	10/15/2019	ND	4.0000		
Nickel, total	ug/L	MW-17	04/06/2020	ND	4.0000		
Nickel, total	ug/L	MW-17	10/13/2020	ND	4.0000		
Nickel, total	ug/L	MW-17	04/12/2021	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	
Nickel, total	ug/L	MW-17	10/06/2021	ND	4.0000		
Nickel, total	ug/L	MW-17	04/14/2022	ND	4.0000		
Nickel, total	ug/L	MW-17	10/25/2022	ND	4.0000		
Nickel, total	ug/L	MW-17	04/03/2023	ND	4.0000		
Nickel, total	ug/L	MW-17	10/16/2023	ND	4.0000		
Nickel, total	ug/L	MW-17	04/22/2024	ND	4.0000		
Nickel, total	ug/L	MW-17	10/07/2024	ND	4.0000		
Selenium, total	ug/L	MW-17	10/24/2014	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-17	04/07/2015	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-17	10/20/2015	ND	4.0000		
Selenium, total	ug/L	MW-17	04/11/2016	ND	4.0000		
Selenium, total	ug/L	MW-17	10/12/2016	ND	4.0000		
Selenium, total	ug/L	MW-17	04/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-17	10/25/2017	ND	4.0000		
Selenium, total	ug/L	MW-17	04/11/2018	ND	4.0000		
Selenium, total	ug/L	MW-17	10/16/2018	ND	4.0000		
Selenium, total	ug/L	MW-17	04/17/2019	ND	4.0000		
Selenium, total	ug/L	MW-17	10/15/2019	ND	4.0000		
Selenium, total	ug/L	MW-17	04/06/2020	ND	4.0000		
Selenium, total	ug/L	MW-17	10/13/2020	ND	4.0000		
Selenium, total	ug/L	MW-17	04/12/2021	ND	4.0000		
Selenium, total	ug/L	MW-17	10/06/2021	ND	4.0000		
Selenium, total	ug/L	MW-17	04/14/2022	ND	4.0000		
Selenium, total	ug/L	MW-17	10/25/2022	ND	4.0000		
Selenium, total	ug/L	MW-17	04/03/2023	ND	4.0000		
Selenium, total	ug/L	MW-17	10/16/2023	ND	4.0000		
Selenium, total	ug/L	MW-17	04/22/2024	ND	4.0000		
Selenium, total	ug/L	MW-17	10/07/2024	ND	4.0000		
Silver, total	ug/L	MW-17	10/24/2014	ND	0.0420		*
Silver, total	ug/L	MW-17	04/07/2015	ND	0.0420		*
Silver, total	ug/L	MW-17	10/20/2015	ND	4.0000		
Silver, total	ug/L	MW-17	04/11/2016	ND	4.0000		
Silver, total	ug/L	MW-17	10/12/2016	ND	4.0000		
Silver, total	ug/L	MW-17	04/13/2017	ND	4.0000		
Silver, total	ug/L	MW-17	10/25/2017	ND	4.0000		
Silver, total	ug/L	MW-17	04/11/2018	ND	4.0000		
Silver, total	ug/L	MW-17	10/16/2018	ND	4.0000		
Silver, total	ug/L	MW-17	04/17/2019	ND	4.0000		
Silver, total	ug/L	MW-17	10/15/2019	ND	4.0000		
Silver, total	ug/L	MW-17	04/06/2020	ND	4.0000		
Silver, total	ug/L	MW-17	10/13/2020	ND	4.0000		
Silver, total	ug/L	MW-17	04/12/2021	ND	4.0000		
Silver, total	ug/L	MW-17	10/06/2021	ND	4.0000		
Silver, total	ug/L	MW-17	04/14/2022	ND	4.0000		
Silver, total	ug/L	MW-17	10/25/2022	ND	4.0000		
Silver, total	ug/L	MW-17	04/03/2023	ND	4.0000		
Silver, total	ug/L	MW-17	10/16/2023	ND	4.0000		
Silver, total	ug/L	MW-17	04/22/2024	ND	4.0000		
Silver, total	ug/L	MW-17	10/07/2024	ND	4.0000		
Thallium, total	ug/L	MW-17	10/24/2014	ND	0.0325		*
Thallium, total	ug/L	MW-17	04/07/2015	ND	1.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/20/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/11/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/12/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/13/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/25/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/11/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	10/16/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-17	04/17/2019	ND	2.0000		
Thallium, total	ug/L	MW-17	10/15/2019	ND	2.0000		
Thallium, total	ug/L	MW-17	04/06/2020	ND	2.0000		
Thallium, total	ug/L	MW-17	10/13/2020	ND	2.0000		
Thallium, total	ug/L	MW-17	04/12/2021	ND	2.0000		
Thallium, total	ug/L	MW-17	10/06/2021	ND	2.0000		
Thallium, total	ug/L	MW-17	04/14/2022	ND	2.0000		
Thallium, total	ug/L	MW-17	10/25/2022	ND	2.0000		
Thallium, total	ug/L	MW-17	04/03/2023	ND	2.0000		
Thallium, total	ug/L	MW-17	10/16/2023	ND	2.0000		
Thallium, total	ug/L	MW-17	04/22/2024	ND	2.0000		
Thallium, total	ug/L	MW-17	10/07/2024	ND	2.0000		
Vanadium, total	ug/L	MW-17	10/24/2014	ND	0.4490		*
Vanadium, total	ug/L	MW-17	04/07/2015	ND	0.4490		*
Vanadium, total	ug/L	MW-17	10/20/2015	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/11/2016	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-17	10/12/2016	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/25/2017	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/11/2018	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/16/2018	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/17/2019	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/15/2019	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/06/2020	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/13/2020	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/12/2021	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/06/2021	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/25/2022	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/03/2023	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/16/2023	ND	20.0000		
Vanadium, total	ug/L	MW-17	04/22/2024	ND	20.0000		
Vanadium, total	ug/L	MW-17	10/07/2024	ND	20.0000		
Zinc, total	ug/L	MW-17	10/24/2014	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-17	04/07/2015	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-17	10/20/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	04/11/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	10/12/2016	ND	20.0000		
Zinc, total	ug/L	MW-17	04/13/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	10/25/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-17	04/11/2018	ND	20.0000		
Zinc, total	ug/L	MW-17	10/16/2018		382.0000		*
Zinc, total	ug/L	MW-17	04/17/2019	ND	20.0000		
Zinc, total	ug/L	MW-17	10/15/2019	ND	20.0000		
Zinc, total	ug/L	MW-17	04/06/2020	ND	20.0000		
Zinc, total	ug/L	MW-17	10/13/2020	ND	20.0000		
Zinc, total	ug/L	MW-17	04/12/2021	ND	20.0000		
Zinc, total	ug/L	MW-17	10/06/2021	ND	20.0000		
Zinc, total	ug/L	MW-17	04/14/2022	ND	20.0000		
Zinc, total	ug/L	MW-17	10/25/2022	ND	20.0000		
Zinc, total	ug/L	MW-17	04/03/2023	ND	20.0000		
Zinc, total	ug/L	MW-17	10/16/2023	ND	20.0000		
Zinc, total	ug/L	MW-17	04/22/2024	ND	20.0000		
Zinc, total	ug/L	MW-17	10/07/2024	ND	20.0000		
Antimony, total	ug/L	MW-21	10/24/2014	ND	0.1610		*
Antimony, total	ug/L	MW-21	04/07/2015	ND	0.1610		*
Antimony, total	ug/L	MW-21	10/20/2015	ND	2.0000		
Antimony, total	ug/L	MW-21	04/11/2016	ND	2.0000		
Antimony, total	ug/L	MW-21	10/12/2016	ND	2.0000		
Antimony, total	ug/L	MW-21	04/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-21	10/25/2017	ND	2.0000		
Antimony, total	ug/L	MW-21	04/11/2018	ND	2.0000		
Antimony, total	ug/L	MW-21	10/16/2018	ND	2.0000		
Antimony, total	ug/L	MW-21	04/17/2019	ND	2.0000		
Antimony, total	ug/L	MW-21	10/15/2019	ND	2.0000		
Antimony, total	ug/L	MW-21	04/06/2020	ND	2.0000		
Antimony, total	ug/L	MW-21	10/13/2020	ND	2.0000		
Antimony, total	ug/L	MW-21	04/12/2021	ND	2.0000		
Antimony, total	ug/L	MW-21	10/06/2021	ND	2.0000		
Antimony, total	ug/L	MW-21	04/14/2022	ND	2.0000		
Antimony, total	ug/L	MW-21	04/03/2023	ND	2.0000		
Antimony, total	ug/L	MW-21	04/22/2024	ND	2.0000		
Antimony, total	ug/L	MW-21	10/07/2024	ND	2.0000		
Arsenic, total	ug/L	MW-21	10/24/2014	ND	0.9450		*
Arsenic, total	ug/L	MW-21	04/07/2015	ND	0.9450		*
Arsenic, total	ug/L	MW-21	10/20/2015	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/11/2016	ND	4.0000		
Arsenic, total	ug/L	MW-21	10/12/2016	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-21	10/25/2017	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/11/2018	ND	4.0000		
Arsenic, total	ug/L	MW-21	10/16/2018	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/17/2019	ND	4.0000		
Arsenic, total	ug/L	MW-21	10/15/2019	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/06/2020	ND	4.0000		
Arsenic, total	ug/L	MW-21	10/13/2020	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/12/2021	ND	4.0000		
Arsenic, total	ug/L	MW-21	10/06/2021	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW-21	04/03/2023	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	
Arsenic, total	ug/L	MW-21	04/22/2024	ND	4.0000		
Arsenic, total	ug/L	MW-21	10/07/2024	ND	4.0000		
Barium, total	ug/L	MW-21	10/24/2014		51.9000		
Barium, total	ug/L	MW-21	04/07/2015		48.7000		
Barium, total	ug/L	MW-21	10/20/2015		36.1000		
Barium, total	ug/L	MW-21	04/11/2016		55.9000		
Barium, total	ug/L	MW-21	10/12/2016		66.9000		
Barium, total	ug/L	MW-21	04/13/2017		49.2000		
Barium, total	ug/L	MW-21	10/25/2017		98.3000		
Barium, total	ug/L	MW-21	04/11/2018		35.3000		
Barium, total	ug/L	MW-21	10/16/2018		64.7000		
Barium, total	ug/L	MW-21	04/17/2019		85.0000		
Barium, total	ug/L	MW-21	10/15/2019		64.0000		
Barium, total	ug/L	MW-21	04/06/2020		48.7000		
Barium, total	ug/L	MW-21	10/13/2020		99.4000		
Barium, total	ug/L	MW-21	04/12/2021		38.6000		
Barium, total	ug/L	MW-21	10/06/2021		104.0000		
Barium, total	ug/L	MW-21	04/14/2022		52.1000		
Barium, total	ug/L	MW-21	04/03/2023		41.9000		
Barium, total	ug/L	MW-21	04/22/2024		45.2000		
Barium, total	ug/L	MW-21	10/07/2024		208.0000		
Beryllium, total	ug/L	MW-21	10/24/2014	ND	0.0390		*
Beryllium, total	ug/L	MW-21	04/07/2015	ND	0.0390		*
Beryllium, total	ug/L	MW-21	10/20/2015	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/11/2016	ND	4.0000		
Beryllium, total	ug/L	MW-21	10/12/2016	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-21	10/25/2017	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/11/2018	ND	4.0000		
Beryllium, total	ug/L	MW-21	10/16/2018	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/17/2019	ND	4.0000		
Beryllium, total	ug/L	MW-21	10/15/2019	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/06/2020	ND	4.0000		
Beryllium, total	ug/L	MW-21	10/13/2020	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/12/2021	ND	4.0000		
Beryllium, total	ug/L	MW-21	10/06/2021	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/03/2023	ND	4.0000		
Beryllium, total	ug/L	MW-21	04/22/2024	ND	4.0000		
Beryllium, total	ug/L	MW-21	10/07/2024	ND	4.0000		
Cadmium, total	ug/L	MW-21	10/24/2014	ND	0.1120		*
Cadmium, total	ug/L	MW-21	04/07/2015	ND	0.1120		*
Cadmium, total	ug/L	MW-21	10/20/2015	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/11/2016	ND	0.8000		
Cadmium, total	ug/L	MW-21	10/12/2016	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/13/2017	ND	0.8000		
Cadmium, total	ug/L	MW-21	10/25/2017	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/11/2018	ND	0.8000		
Cadmium, total	ug/L	MW-21	10/16/2018	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/17/2019	ND	0.8000		
Cadmium, total	ug/L	MW-21	10/15/2019	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/06/2020	ND	0.8000		
Cadmium, total	ug/L	MW-21	10/13/2020	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/12/2021	ND	0.8000		
Cadmium, total	ug/L	MW-21	10/06/2021	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/03/2023	ND	0.8000		
Cadmium, total	ug/L	MW-21	04/22/2024	ND	0.8000		
Cadmium, total	ug/L	MW-21	10/07/2024	ND	0.8000		
Chromium, total	ug/L	MW-21	10/24/2014	ND	1.2400		*
Chromium, total	ug/L	MW-21	04/07/2015	ND	1.2400		*
Chromium, total	ug/L	MW-21	10/20/2015	ND	8.0000		
Chromium, total	ug/L	MW-21	04/11/2016	ND	8.0000		
Chromium, total	ug/L	MW-21	10/12/2016	ND	8.0000		
Chromium, total	ug/L	MW-21	04/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-21	10/25/2017	ND	8.0000		
Chromium, total	ug/L	MW-21	04/11/2018	ND	8.0000		
Chromium, total	ug/L	MW-21	10/16/2018	ND	8.0000		
Chromium, total	ug/L	MW-21	04/17/2019	ND	8.0000		
Chromium, total	ug/L	MW-21	10/15/2019	ND	8.0000		
Chromium, total	ug/L	MW-21	04/06/2020	ND	8.0000		
Chromium, total	ug/L	MW-21	10/13/2020	ND	8.0000		
Chromium, total	ug/L	MW-21	04/12/2021	ND	8.0000		
Chromium, total	ug/L	MW-21	10/06/2021	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-21	04/14/2022	ND	8.0000		
Chromium, total	ug/L	MW-21	04/03/2023	ND	8.0000		
Chromium, total	ug/L	MW-21	04/22/2024	ND	8.0000		
Chromium, total	ug/L	MW-21	10/07/2024	ND	8.0000		
Cobalt, total	ug/L	MW-21	10/24/2014	ND	0.0528		*
Cobalt, total	ug/L	MW-21	04/07/2015	ND	0.0528		*
Cobalt, total	ug/L	MW-21	10/20/2015	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-21	04/11/2016	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-21	10/12/2016	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-21	04/13/2017	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-21	10/25/2017	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-21	04/11/2018	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-21	10/16/2018	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-21	04/17/2019	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-21	10/15/2019	ND	0.8000	0.4000	**
Cobalt, total	ug/L	MW-21	04/06/2020	ND	0.4000		
Cobalt, total	ug/L	MW-21	10/13/2020		0.4000		
Cobalt, total	ug/L	MW-21	04/12/2021	ND	0.4000		
Cobalt, total	ug/L	MW-21	10/06/2021	ND	0.4000		
Cobalt, total	ug/L	MW-21	04/14/2022	ND	0.4000		
Cobalt, total	ug/L	MW-21	04/03/2023	ND	0.4000		
Cobalt, total	ug/L	MW-21	04/22/2024	ND	0.4000		
Cobalt, total	ug/L	MW-21	10/07/2024		2.9000		*
Copper, total	ug/L	MW-21	10/24/2014	ND	0.4850		*
Copper, total	ug/L	MW-21	04/07/2015	ND	0.4850		*
Copper, total	ug/L	MW-21	10/20/2015	ND	4.0000		
Copper, total	ug/L	MW-21	04/11/2016	ND	4.0000		
Copper, total	ug/L	MW-21	10/12/2016	ND	4.0000		
Copper, total	ug/L	MW-21	04/13/2017	ND	4.0000		
Copper, total	ug/L	MW-21	10/25/2017	ND	4.0000		
Copper, total	ug/L	MW-21	04/11/2018	ND	4.0000		
Copper, total	ug/L	MW-21	10/16/2018	ND	4.0000		
Copper, total	ug/L	MW-21	04/17/2019	ND	4.0000		
Copper, total	ug/L	MW-21	10/15/2019	ND	4.0000		
Copper, total	ug/L	MW-21	04/06/2020	ND	4.0000		
Copper, total	ug/L	MW-21	10/13/2020	ND	4.0000		
Copper, total	ug/L	MW-21	04/12/2021	ND	4.0000		
Copper, total	ug/L	MW-21	10/06/2021	ND	4.0000		
Copper, total	ug/L	MW-21	04/14/2022	ND	4.0000		
Copper, total	ug/L	MW-21	04/03/2023	ND	4.0000		
Copper, total	ug/L	MW-21	04/22/2024	ND	4.0000		
Copper, total	ug/L	MW-21	10/07/2024	ND	4.0000		
Lead, total	ug/L	MW-21	10/24/2014	ND	0.0967		*
Lead, total	ug/L	MW-21	04/07/2015	ND	0.5000		*
Lead, total	ug/L	MW-21	10/20/2015	ND	4.0000		
Lead, total	ug/L	MW-21	04/11/2016	ND	4.0000		
Lead, total	ug/L	MW-21	10/12/2016	ND	4.0000		
Lead, total	ug/L	MW-21	04/13/2017	ND	4.0000		
Lead, total	ug/L	MW-21	10/25/2017	ND	4.0000		
Lead, total	ug/L	MW-21	04/11/2018	ND	4.0000		
Lead, total	ug/L	MW-21	10/16/2018	ND	4.0000		
Lead, total	ug/L	MW-21	04/17/2019	ND	4.0000		
Lead, total	ug/L	MW-21	10/15/2019	ND	4.0000		
Lead, total	ug/L	MW-21	04/06/2020	ND	4.0000		
Lead, total	ug/L	MW-21	10/13/2020	ND	4.0000		
Lead, total	ug/L	MW-21	04/12/2021	ND	4.0000		
Lead, total	ug/L	MW-21	10/06/2021	ND	4.0000		
Lead, total	ug/L	MW-21	04/14/2022	ND	4.0000		
Lead, total	ug/L	MW-21	04/03/2023	ND	4.0000		
Lead, total	ug/L	MW-21	04/22/2024	ND	4.0000		
Lead, total	ug/L	MW-21	10/07/2024	ND	4.0000		
Nickel, total	ug/L	MW-21	10/24/2014	ND	10.0000	4.0000	**
Nickel, total	ug/L	MW-21	04/07/2015	ND	0.5810		*
Nickel, total	ug/L	MW-21	10/20/2015		4.3000		
Nickel, total	ug/L	MW-21	04/11/2016	ND	4.0000		
Nickel, total	ug/L	MW-21	10/12/2016	ND	4.0000		
Nickel, total	ug/L	MW-21	04/13/2017	ND	4.0000		
Nickel, total	ug/L	MW-21	10/25/2017	ND	4.0000		
Nickel, total	ug/L	MW-21	04/11/2018	ND	4.0000		
Nickel, total	ug/L	MW-21	10/16/2018	ND	4.0000		
Nickel, total	ug/L	MW-21	04/17/2019	ND	4.0000		
Nickel, total	ug/L	MW-21	10/15/2019	ND	4.0000		
Nickel, total	ug/L	MW-21	04/06/2020	ND	4.0000		
Nickel, total	ug/L	MW-21	10/13/2020	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	
Nickel, total	ug/L	MW-21	04/12/2021	ND	4.0000		
Nickel, total	ug/L	MW-21	10/06/2021	ND	4.0000		
Nickel, total	ug/L	MW-21	04/14/2022	ND	4.0000		
Nickel, total	ug/L	MW-21	04/03/2023	ND	4.0000		
Nickel, total	ug/L	MW-21	04/22/2024	ND	4.0000		
Nickel, total	ug/L	MW-21	10/07/2024		11.6000		
Selenium, total	ug/L	MW-21	10/24/2014	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-21	04/07/2015	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-21	10/20/2015	ND	4.0000		
Selenium, total	ug/L	MW-21	04/11/2016	ND	4.0000		
Selenium, total	ug/L	MW-21	10/12/2016	ND	4.0000		
Selenium, total	ug/L	MW-21	04/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-21	10/25/2017	ND	4.0000		
Selenium, total	ug/L	MW-21	04/11/2018	ND	4.0000		
Selenium, total	ug/L	MW-21	10/16/2018	ND	4.0000		
Selenium, total	ug/L	MW-21	04/17/2019	ND	4.0000		
Selenium, total	ug/L	MW-21	10/15/2019	ND	4.0000		
Selenium, total	ug/L	MW-21	04/06/2020	ND	4.0000		
Selenium, total	ug/L	MW-21	10/13/2020	ND	4.0000		
Selenium, total	ug/L	MW-21	04/12/2021	ND	4.0000		
Selenium, total	ug/L	MW-21	10/06/2021	ND	4.0000		
Selenium, total	ug/L	MW-21	04/14/2022	ND	4.0000		
Selenium, total	ug/L	MW-21	04/03/2023	ND	4.0000		
Selenium, total	ug/L	MW-21	04/22/2024	ND	4.0000		
Selenium, total	ug/L	MW-21	10/07/2024	ND	4.0000		
Silver, total	ug/L	MW-21	10/24/2014	ND	0.0420		*
Silver, total	ug/L	MW-21	04/07/2015	ND	0.0420		*
Silver, total	ug/L	MW-21	10/20/2015	ND	4.0000		
Silver, total	ug/L	MW-21	04/11/2016	ND	4.0000		
Silver, total	ug/L	MW-21	10/12/2016	ND	4.0000		
Silver, total	ug/L	MW-21	04/13/2017	ND	4.0000		
Silver, total	ug/L	MW-21	10/25/2017	ND	4.0000		
Silver, total	ug/L	MW-21	04/11/2018	ND	4.0000		
Silver, total	ug/L	MW-21	10/16/2018	ND	4.0000		
Silver, total	ug/L	MW-21	04/17/2019	ND	4.0000		
Silver, total	ug/L	MW-21	10/15/2019	ND	4.0000		
Silver, total	ug/L	MW-21	04/06/2020	ND	4.0000		
Silver, total	ug/L	MW-21	10/13/2020	ND	4.0000		
Silver, total	ug/L	MW-21	04/12/2021	ND	4.0000		
Silver, total	ug/L	MW-21	10/06/2021	ND	4.0000		
Silver, total	ug/L	MW-21	04/14/2022	ND	4.0000		
Silver, total	ug/L	MW-21	04/03/2023	ND	4.0000		
Silver, total	ug/L	MW-21	04/22/2024	ND	4.0000		
Silver, total	ug/L	MW-21	10/07/2024	ND	4.0000		
Thallium, total	ug/L	MW-21	10/24/2014	ND	0.0325		*
Thallium, total	ug/L	MW-21	04/07/2015	ND	0.0325		*
Thallium, total	ug/L	MW-21	10/20/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-21	04/11/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-21	10/12/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-21	04/13/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-21	10/25/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-21	04/11/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-21	10/16/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-21	04/17/2019	ND	2.0000		
Thallium, total	ug/L	MW-21	10/15/2019	ND	2.0000		
Thallium, total	ug/L	MW-21	04/06/2020	ND	2.0000		
Thallium, total	ug/L	MW-21	10/13/2020	ND	2.0000		
Thallium, total	ug/L	MW-21	04/12/2021	ND	2.0000		
Thallium, total	ug/L	MW-21	10/06/2021	ND	2.0000		
Thallium, total	ug/L	MW-21	04/14/2022	ND	2.0000		
Thallium, total	ug/L	MW-21	04/03/2023	ND	2.0000		
Thallium, total	ug/L	MW-21	04/22/2024	ND	2.0000		
Thallium, total	ug/L	MW-21	10/07/2024	ND	2.0000		
Vanadium, total	ug/L	MW-21	10/24/2014	ND	0.4490		*
Vanadium, total	ug/L	MW-21	04/07/2015	ND	0.4490		*
Vanadium, total	ug/L	MW-21	10/20/2015	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/11/2016	ND	20.0000		
Vanadium, total	ug/L	MW-21	10/12/2016	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-21	10/25/2017	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/11/2018	ND	20.0000		
Vanadium, total	ug/L	MW-21	10/16/2018	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/17/2019	ND	20.0000		
Vanadium, total	ug/L	MW-21	10/15/2019	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-21	04/06/2020	ND	20.0000		
Vanadium, total	ug/L	MW-21	10/13/2020	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/12/2021	ND	20.0000		
Vanadium, total	ug/L	MW-21	10/06/2021	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/03/2023	ND	20.0000		
Vanadium, total	ug/L	MW-21	04/22/2024	ND	20.0000		
Vanadium, total	ug/L	MW-21	10/07/2024	ND	20.0000		
Zinc, total	ug/L	MW-21	10/24/2014	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-21	04/07/2015	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-21	10/20/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-21	04/11/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-21	10/12/2016	ND	20.0000		
Zinc, total	ug/L	MW-21	04/13/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-21	10/25/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-21	04/11/2018		20.8000		
Zinc, total	ug/L	MW-21	10/16/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-21	04/17/2019	ND	20.0000		
Zinc, total	ug/L	MW-21	10/15/2019	ND	20.0000		
Zinc, total	ug/L	MW-21	04/06/2020	ND	20.0000		
Zinc, total	ug/L	MW-21	10/13/2020	ND	20.0000		
Zinc, total	ug/L	MW-21	04/12/2021	ND	20.0000		
Zinc, total	ug/L	MW-21	10/06/2021	ND	20.0000		
Zinc, total	ug/L	MW-21	04/14/2022	ND	20.0000		
Zinc, total	ug/L	MW-21	04/03/2023	ND	20.0000		
Zinc, total	ug/L	MW-21	04/22/2024	ND	20.0000		
Zinc, total	ug/L	MW-21	10/07/2024	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-16	10/07/2024	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-16	10/07/2024	ND	4.0000		4.0000
Barium, total	ug/L	MW-16	10/07/2024		140.0000		272.4527
Beryllium, total	ug/L	MW-16	10/07/2024	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-16	10/07/2024	ND	0.8000		0.8000
Chromium, total	ug/L	MW-16	10/07/2024	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-16	10/07/2024	ND	0.4000		0.7000
Copper, total	ug/L	MW-16	10/07/2024	ND	4.0000		7.9000
Lead, total	ug/L	MW-16	10/07/2024	ND	4.0000		4.0000
Nickel, total	ug/L	MW-16	10/07/2024	ND	4.0000		11.6000
Selenium, total	ug/L	MW-16	10/07/2024	ND	4.0000		4.0000
Silver, total	ug/L	MW-16	10/07/2024	ND	4.0000		4.0000
Thallium, total	ug/L	MW-16	10/07/2024	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-16	10/07/2024	ND	20.0000		20.0000
Zinc, total	ug/L	MW-16	10/07/2024	ND	20.0000		20.8000
Antimony, total	ug/L	MW-25	10/07/2024	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-25	10/07/2024	ND	4.0000	**	4.0000
Barium, total	ug/L	MW-25	10/07/2024		35.6000		272.4527
Beryllium, total	ug/L	MW-25	10/07/2024	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-25	10/07/2024	ND	0.8000		0.8000
Chromium, total	ug/L	MW-25	10/07/2024	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-25	10/07/2024	ND	0.4000	**	0.7000
Copper, total	ug/L	MW-25	10/07/2024	ND	4.0000		7.9000
Lead, total	ug/L	MW-25	10/07/2024	ND	4.0000		4.0000
Nickel, total	ug/L	MW-25	10/07/2024		8.1000		11.6000
Selenium, total	ug/L	MW-25	10/07/2024	ND	4.0000		4.0000
Silver, total	ug/L	MW-25	10/07/2024	ND	4.0000		4.0000
Thallium, total	ug/L	MW-25	10/07/2024	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-25	10/07/2024	ND	20.0000		20.0000
Zinc, total	ug/L	MW-25	10/07/2024	ND	20.0000		20.8000
Antimony, total	ug/L	MW-26	10/07/2024	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-26	10/07/2024	ND	4.0000		4.0000
Barium, total	ug/L	MW-26	10/07/2024		41.0000		272.4527
Beryllium, total	ug/L	MW-26	10/07/2024	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-26	10/07/2024	ND	0.8000		0.8000
Chromium, total	ug/L	MW-26	10/07/2024	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-26	10/07/2024		11.8000	***	0.7000
Copper, total	ug/L	MW-26	10/07/2024	ND	4.0000		7.9000
Lead, total	ug/L	MW-26	10/07/2024	ND	4.0000		4.0000
Nickel, total	ug/L	MW-26	10/07/2024		8.7000		11.6000
Selenium, total	ug/L	MW-26	10/07/2024	ND	4.0000		4.0000
Silver, total	ug/L	MW-26	10/07/2024	ND	4.0000		4.0000
Thallium, total	ug/L	MW-26	10/07/2024	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-26	10/07/2024	ND	20.0000		20.0000
Zinc, total	ug/L	MW-26	10/07/2024	ND	20.0000		20.8000
Antimony, total	ug/L	MW-32	10/07/2024	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-32	10/07/2024		4.2000	*	4.0000
Barium, total	ug/L	MW-32	10/07/2024		326.0000	***	272.4527
Beryllium, total	ug/L	MW-32	10/07/2024	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-32	10/07/2024	ND	0.8000		0.8000
Chromium, total	ug/L	MW-32	10/07/2024	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-32	10/07/2024		0.4000	**	0.7000
Copper, total	ug/L	MW-32	10/07/2024	ND	4.0000		7.9000
Lead, total	ug/L	MW-32	10/07/2024	ND	4.0000		4.0000
Nickel, total	ug/L	MW-32	10/07/2024	ND	4.0000		11.6000
Selenium, total	ug/L	MW-32	10/07/2024	ND	4.0000		4.0000
Silver, total	ug/L	MW-32	10/07/2024	ND	4.0000		4.0000
Thallium, total	ug/L	MW-32	10/07/2024	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-32	10/07/2024	ND	20.0000		20.0000
Zinc, total	ug/L	MW-32	10/07/2024	ND	20.0000		20.8000
Antimony, total	ug/L	MW-9	10/07/2024	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-9	10/07/2024		5.1000	*	4.0000
Barium, total	ug/L	MW-9	10/07/2024		519.0000	***	272.4527
Beryllium, total	ug/L	MW-9	10/07/2024	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-9	10/07/2024	ND	0.8000		0.8000
Chromium, total	ug/L	MW-9	10/07/2024	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-9	10/07/2024		1.7000	***	0.7000
Copper, total	ug/L	MW-9	10/07/2024	ND	4.0000		7.9000
Lead, total	ug/L	MW-9	10/07/2024	ND	4.0000		4.0000
Nickel, total	ug/L	MW-9	10/07/2024		9.7000		11.6000
Selenium, total	ug/L	MW-9	10/07/2024	ND	4.0000		4.0000
Silver, total	ug/L	MW-9	10/07/2024	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-9	10/07/2024	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-9	10/07/2024	ND	20.0000		20.0000
Zinc, total	ug/L	MW-9	10/07/2024	ND	20.0000		20.8000

* - 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 Detect	Upgradient N	Upgradient Proportion	Downgradient Detect	Downgradient N	Downgradient Proportion
Antimony, total	0	54	0.000	1	155	0.006
Arsenic, total	0	55	0.000	40	156	0.256
Barium, total	61	61	1.000	156	156	1.000
Beryllium, total	0	55	0.000	2	155	0.013
Cadmium, total	0	55	0.000	10	155	0.065
Chromium, total	0	55	0.000	4	155	0.026
Cobalt, total	2	56	0.036	70	157	0.446
Copper, total	3	57	0.053	20	155	0.129
Lead, total	0	54	0.000	14	155	0.090
Nickel, total	2	56	0.036	45	155	0.290
Selenium, total	0	61	0.000	3	156	0.019
Silver, total	0	55	0.000	1	155	0.006
Thallium, total	0	56	0.000	0	155	0.000
Vanadium, total	0	55	0.000	8	155	0.052
Zinc, total	4	60	0.067	30	156	0.192

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	54	0.000									nonpar
Arsenic, total	0	55	0.000									nonpar
Barium, total	61	61	1.000	2.836	0.715					2.326	lognor	lognor
Beryllium, total	0	55	0.000									nonpar
Cadmium, total	0	55	0.000									nonpar
Chromium, total	0	55	0.000									nonpar
Cobalt, total	2	56	0.036									nonpar
Copper, total	3	57	0.053									nonpar
Lead, total	0	54	0.000									nonpar
Nickel, total	2	56	0.036									nonpar
Selenium, total	0	61	0.000									nonpar
Silver, total	0	55	0.000									nonpar
Thallium, total	0	56	0.000									nonpar
Vanadium, total	0	55	0.000									nonpar
Zinc, total	4	60	0.067	0.905	0.646					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	54					2.0000	nonpar	***	0.99
Arsenic, total	ug/L	0	55					4.0000	nonpar	***	0.99
Barium, total	ug/L	61	61	4.5647	0.4328	0.0100	2.4096	272.4527	lognor		
Beryllium, total	ug/L	0	55					4.0000	nonpar	***	0.99
Cadmium, total	ug/L	0	55					0.8000	nonpar	***	0.99
Chromium, total	ug/L	0	55					8.0000	nonpar	***	0.99
Cobalt, total	ug/L	2	56					0.7000	nonpar		0.99
Copper, total	ug/L	3	57					7.9000	nonpar		0.99
Lead, total	ug/L	0	54					4.0000	nonpar	***	0.99
Nickel, total	ug/L	2	56					11.6000	nonpar		0.99
Selenium, total	ug/L	0	61					4.0000	nonpar	***	0.99
Silver, total	ug/L	0	55					4.0000	nonpar	***	0.99
Thallium, total	ug/L	0	56					2.0000	nonpar	***	0.99
Vanadium, total	ug/L	0	55					20.0000	nonpar	***	0.99
Zinc, total	ug/L	4	60					20.8000	nonpar		0.99

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).
* - Insufficient Data.
** - Calculated limit raised to Manual Reporting Limit.
*** - Nonparametric limit based on ND value.
For transformed data, mean and SD in transformed units and prediction limit in original units.
All sample sizes and statistics are based on outlier free data.
For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 6

Dixon's Test Outliers
1% Significance Level

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Antimony, total	ug/L	MW-12	10/24/2014	0.1610	< 0.1610	10/24/2014-10/07/2024	21	0.5381
Antimony, total	ug/L	MW-12	04/07/2015	0.1610	< 0.1610	10/24/2014-10/07/2024	21	0.5381
Antimony, total	ug/L	MW-12	10/12/2016	6.2000		10/24/2014-10/07/2024	21	0.5263
Arsenic, total	ug/L	MW-12	10/24/2014	0.9450	< 0.9450	10/24/2014-10/07/2024	21	0.5381
Arsenic, total	ug/L	MW-12	04/07/2015	0.9450	< 0.9450	10/24/2014-10/07/2024	21	0.5381
Beryllium, total	ug/L	MW-12	10/24/2014	0.0390	< 0.0390	10/24/2014-10/07/2024	21	0.5381
Beryllium, total	ug/L	MW-12	04/07/2015	0.0390	< 0.0390	10/24/2014-10/07/2024	21	0.5381
Cadmium, total	ug/L	MW-12	10/24/2014	0.1120	< 0.1120	10/24/2014-10/07/2024	21	0.5381
Cadmium, total	ug/L	MW-12	04/07/2015	0.1120	< 0.1120	10/24/2014-10/07/2024	21	0.5381
Chromium, total	ug/L	MW-12	10/24/2014	1.2400	< 1.2400	10/24/2014-10/07/2024	21	0.5381
Chromium, total	ug/L	MW-12	04/07/2015	1.2400	< 1.2400	10/24/2014-10/07/2024	21	0.5381
Cobalt, total	ug/L	MW-12	10/24/2014	0.0528	< 0.0528	10/24/2014-10/07/2024	21	0.5381
Cobalt, total	ug/L	MW-12	04/07/2015	0.0528	< 0.0528	10/24/2014-10/07/2024	21	0.5381
Copper, total	ug/L	MW-12	04/07/2015	0.4850	< 0.4850	10/24/2014-10/07/2024	21	0.5263
Lead, total	ug/L	MW-12	10/24/2014	0.0967	< 0.0967	10/24/2014-10/07/2024	21	0.5381
Lead, total	ug/L	MW-12	04/07/2015	0.0967	< 0.0967	10/24/2014-10/07/2024	21	0.5381
Nickel, total	ug/L	MW-12	10/24/2014	1.0000	< 1.0000	10/24/2014-10/07/2024	21	0.5381
Nickel, total	ug/L	MW-12	04/07/2015	0.5810	< 0.5810	10/24/2014-10/07/2024	21	0.5381
Silver, total	ug/L	MW-12	10/24/2014	0.0420	< 0.0420	10/24/2014-10/07/2024	21	0.5381
Silver, total	ug/L	MW-12	04/07/2015	0.0420	< 0.0420	10/24/2014-10/07/2024	21	0.5381
Thallium, total	ug/L	MW-12	10/24/2014	0.0325	< 0.0325	10/24/2014-10/07/2024	21	0.5381
Thallium, total	ug/L	MW-12	04/07/2015	0.0325	< 0.0325	10/24/2014-10/07/2024	21	0.5381
Vanadium, total	ug/L	MW-12	10/24/2014	1.0000	< 1.0000	10/24/2014-10/07/2024	21	0.5381
Vanadium, total	ug/L	MW-12	04/07/2015	0.4490	< 0.4490	10/24/2014-10/07/2024	21	0.5381
Antimony, total	ug/L	MW-17	10/24/2014	0.5410	< 0.5410	10/24/2014-10/07/2024	21	0.5381
Antimony, total	ug/L	MW-17	04/07/2015	0.1610	< 0.1610	10/24/2014-10/07/2024	21	0.5381
Arsenic, total	ug/L	MW-17	10/24/2014	0.9450	< 0.9450	10/24/2014-10/07/2024	21	0.5381
Arsenic, total	ug/L	MW-17	04/07/2015	0.9450	< 0.9450	10/24/2014-10/07/2024	21	0.5381
Beryllium, total	ug/L	MW-17	10/24/2014	0.0390	< 0.0390	10/24/2014-10/07/2024	21	0.5381
Beryllium, total	ug/L	MW-17	04/07/2015	0.0390	< 0.0390	10/24/2014-10/07/2024	21	0.5381
Cadmium, total	ug/L	MW-17	10/24/2014	0.1120	< 0.1120	10/24/2014-10/07/2024	21	0.5381
Cadmium, total	ug/L	MW-17	04/07/2015	0.1120	< 0.1120	10/24/2014-10/07/2024	21	0.5381
Chromium, total	ug/L	MW-17	10/24/2014	1.2400	< 1.2400	10/24/2014-10/07/2024	21	0.5381
Chromium, total	ug/L	MW-17	04/07/2015	1.2400	< 1.2400	10/24/2014-10/07/2024	21	0.5381
Copper, total	ug/L	MW-17	04/07/2015	0.4850	< 0.4850	10/24/2014-10/07/2024	21	0.5263
Lead, total	ug/L	MW-17	10/24/2014	0.5000	< 0.5000	10/24/2014-10/07/2024	20	0.5503
Lead, total	ug/L	MW-17	04/07/2015	0.5000	< 0.5000	10/24/2014-10/07/2024	20	0.5503
Nickel, total	ug/L	MW-17	10/24/2014	1.0000	< 1.0000	10/24/2014-10/07/2024	21	0.5381
Nickel, total	ug/L	MW-17	04/07/2015	0.5810	< 0.5810	10/24/2014-10/07/2024	21	0.5381
Silver, total	ug/L	MW-17	10/24/2014	0.0420	< 0.0420	10/24/2014-10/07/2024	21	0.5381
Silver, total	ug/L	MW-17	04/07/2015	0.0420	< 0.0420	10/24/2014-10/07/2024	21	0.5381
Thallium, total	ug/L	MW-17	10/24/2014	0.0325	< 0.0325	10/24/2014-10/07/2024	21	0.5263
Vanadium, total	ug/L	MW-17	10/24/2014	0.4490	< 0.4490	10/24/2014-10/07/2024	21	0.5381
Vanadium, total	ug/L	MW-17	04/07/2015	0.4490	< 0.4490	10/24/2014-10/07/2024	21	0.5381
Antimony, total	ug/L	MW-21	10/24/2014	0.1610	< 0.1610	10/24/2014-10/07/2024	19	0.5643
Antimony, total	ug/L	MW-21	04/07/2015	0.1610	< 0.1610	10/24/2014-10/07/2024	19	0.5643
Arsenic, total	ug/L	MW-21	10/24/2014	0.9450	< 0.9450	10/24/2014-10/07/2024	19	0.5643
Arsenic, total	ug/L	MW-21	04/07/2015	0.9450	< 0.9450	10/24/2014-10/07/2024	19	0.5643
Beryllium, total	ug/L	MW-21	10/24/2014	0.0390	< 0.0390	10/24/2014-10/07/2024	19	0.5643
Beryllium, total	ug/L	MW-21	04/07/2015	0.0390	< 0.0390	10/24/2014-10/07/2024	19	0.5643
Cadmium, total	ug/L	MW-21	10/24/2014	0.1120	< 0.1120	10/24/2014-10/07/2024	19	0.5643
Cadmium, total	ug/L	MW-21	04/07/2015	0.1120	< 0.1120	10/24/2014-10/07/2024	19	0.5643
Chromium, total	ug/L	MW-21	10/24/2014	1.2400	< 1.2400	10/24/2014-10/07/2024	19	0.5643
Chromium, total	ug/L	MW-21	04/07/2015	1.2400	< 1.2400	10/24/2014-10/07/2024	19	0.5643
Cobalt, total	ug/L	MW-21	10/24/2014	0.0528	< 0.0528	10/24/2014-10/07/2024	19	0.5643
Cobalt, total	ug/L	MW-21	04/07/2015	0.0528	< 0.0528	10/24/2014-10/07/2024	19	0.5643
Cobalt, total	ug/L	MW-21	10/07/2024	2.9000		10/24/2014-10/07/2024	19	0.5503
Copper, total	ug/L	MW-21	10/24/2014	0.4850	< 0.4850	10/24/2014-10/07/2024	19	0.5643
Copper, total	ug/L	MW-21	04/07/2015	0.4850	< 0.4850	10/24/2014-10/07/2024	19	0.5643
Lead, total	ug/L	MW-21	10/24/2014	0.0967	< 0.0967	10/24/2014-10/07/2024	19	0.5643
Lead, total	ug/L	MW-21	04/07/2015	0.5000	< 0.5000	10/24/2014-10/07/2024	19	0.5643
Nickel, total	ug/L	MW-21	04/07/2015	0.5810	< 0.5810	10/24/2014-10/07/2024	19	0.5503
Silver, total	ug/L	MW-21	10/24/2014	0.0420	< 0.0420	10/24/2014-10/07/2024	19	0.5643
Silver, total	ug/L	MW-21	04/07/2015	0.0420	< 0.0420	10/24/2014-10/07/2024	19	0.5643
Thallium, total	ug/L	MW-21	10/24/2014	0.0325	< 0.0325	10/24/2014-10/07/2024	19	0.5643
Thallium, total	ug/L	MW-21	04/07/2015	0.0325	< 0.0325	10/24/2014-10/07/2024	19	0.5643
Vanadium, total	ug/L	MW-21	10/24/2014	0.4490	< 0.4490	10/24/2014-10/07/2024	19	0.5643
Vanadium, total	ug/L	MW-21	04/07/2015	0.4490	< 0.4490	10/24/2014-10/07/2024	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-25	02/18/2011	ND	1.0000		4.0000
Arsenic, total	ug/L	MW-25	04/12/2011	ND	3.0000		4.0000
Arsenic, total	ug/L	MW-25	06/21/2011	ND	2.0000		4.0000
Arsenic, total	ug/L	MW-25	08/22/2011	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/10/2011		1.8400		4.0000
Arsenic, total	ug/L	MW-25	12/29/2011	ND	0.6000		4.0000
Arsenic, total	ug/L	MW-25	02/07/2012		2.9200		4.0000
Arsenic, total	ug/L	MW-25	04/18/2012	ND	0.2160		4.0000
Arsenic, total	ug/L	MW-25	08/23/2012		1.3600		4.0000
Arsenic, total	ug/L	MW-25	10/10/2012	ND	0.1850		4.0000
Arsenic, total	ug/L	MW-25	04/23/2013	ND	5.4400		4.0000
Arsenic, total	ug/L	MW-25	10/28/2013		1.2200		4.0000
Arsenic, total	ug/L	MW-25	04/25/2014	ND	0.3300		4.0000
Arsenic, total	ug/L	MW-25	10/28/2014	ND	0.9450		4.0000
Arsenic, total	ug/L	MW-25	04/28/2015	ND	0.9450		4.0000
Arsenic, total	ug/L	MW-25	10/20/2015	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/11/2016	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/12/2016	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/12/2017	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/26/2017	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/11/2018	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/16/2018	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/17/2019	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/15/2019	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/06/2020	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/14/2020	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/12/2021	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/06/2021	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/14/2022	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/25/2022	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/03/2023	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	10/16/2023	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-25	04/22/2024		5.7000	*	4.0000
Arsenic, total	ug/L	MW-25	10/07/2024	ND	4.0000		4.0000
Cobalt, total	ug/L	MW-25	02/18/2011	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-25	04/12/2011	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-25	06/21/2011	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-25	08/22/2011	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-25	10/10/2011	ND	1.5500		0.7000
Cobalt, total	ug/L	MW-25	12/29/2011	ND	1.5500		0.7000
Cobalt, total	ug/L	MW-25	02/07/2012		1.9600	*	0.7000
Cobalt, total	ug/L	MW-25	04/18/2012	ND	1.5500		0.7000
Cobalt, total	ug/L	MW-25	08/23/2012		0.8700	*	0.7000
Cobalt, total	ug/L	MW-25	10/10/2012	ND	1.5500		0.7000
Cobalt, total	ug/L	MW-25	04/23/2013	ND	0.5540		0.7000
Cobalt, total	ug/L	MW-25	10/28/2013		2.5500	*	0.7000
Cobalt, total	ug/L	MW-25	04/25/2014	ND	10.0000		0.7000
Cobalt, total	ug/L	MW-25	10/28/2014		1.2800	*	0.7000
Cobalt, total	ug/L	MW-25	04/28/2015		1.0900	*	0.7000
Cobalt, total	ug/L	MW-25	10/20/2015		1.5000	*	0.7000
Cobalt, total	ug/L	MW-25	04/11/2016		3.4000	*	0.7000
Cobalt, total	ug/L	MW-25	10/12/2016		4.3000	*	0.7000
Cobalt, total	ug/L	MW-25	04/12/2017		0.9000	*	0.7000
Cobalt, total	ug/L	MW-25	10/26/2017		2.6000	*	0.7000
Cobalt, total	ug/L	MW-25	04/11/2018		0.8000	*	0.7000
Cobalt, total	ug/L	MW-25	10/16/2018		1.9000	*	0.7000
Cobalt, total	ug/L	MW-25	04/17/2019		1.5000	*	0.7000
Cobalt, total	ug/L	MW-25	10/15/2019		2.0000	*	0.7000
Cobalt, total	ug/L	MW-25	04/06/2020		0.8000	*	0.7000
Cobalt, total	ug/L	MW-25	10/14/2020		1.8000	*	0.7000
Cobalt, total	ug/L	MW-25	04/12/2021		2.1000	*	0.7000
Cobalt, total	ug/L	MW-25	10/06/2021		1.3000	*	0.7000
Cobalt, total	ug/L	MW-25	04/14/2022		0.7000		0.7000
Cobalt, total	ug/L	MW-25	10/25/2022		4.7000	*	0.7000
Cobalt, total	ug/L	MW-25	04/03/2023		0.6000		0.7000
Cobalt, total	ug/L	MW-25	10/16/2023	ND	0.4000		0.7000
Cobalt, total	ug/L	MW-25	04/22/2024		4.7000	*	0.7000
Cobalt, total	ug/L	MW-25	10/07/2024	ND	0.4000		0.7000
Cobalt, total	ug/L	MW-26	02/18/2011	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-26	04/12/2011	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-26	06/21/2011	ND	20.0000		0.7000

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

Table 8

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

Constituent	Units	Well	Date		Result		Pred. Limit
Cobalt, total	ug/L	MW-26	08/22/2011	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-26	10/10/2011	ND	1.5500		0.7000
Cobalt, total	ug/L	MW-26	12/29/2011	ND	10.0000		0.7000
Cobalt, total	ug/L	MW-26	02/07/2012		4.8600	*	0.7000
Cobalt, total	ug/L	MW-26	04/18/2012	ND	1.5500		0.7000
Cobalt, total	ug/L	MW-26	08/23/2012		2.4700	*	0.7000
Cobalt, total	ug/L	MW-26	10/10/2012	ND	10.0000		0.7000
Cobalt, total	ug/L	MW-26	04/23/2013	ND	0.5540		0.7000
Cobalt, total	ug/L	MW-26	10/28/2013		0.9430	*	0.7000
Cobalt, total	ug/L	MW-26	04/23/2014	ND	10.0000		0.7000
Cobalt, total	ug/L	MW-26	10/28/2014		16.5000	*	0.7000
Cobalt, total	ug/L	MW-26	04/28/2015	ND	0.2000		0.7000
Cobalt, total	ug/L	MW-26	10/20/2015		1.6000	*	0.7000
Cobalt, total	ug/L	MW-26	04/11/2016	ND	0.8000		0.7000
Cobalt, total	ug/L	MW-26	10/11/2016		2.9000	*	0.7000
Cobalt, total	ug/L	MW-26	04/13/2017	ND	0.8000		0.7000
Cobalt, total	ug/L	MW-26	10/26/2017		4.0000	*	0.7000
Cobalt, total	ug/L	MW-26	01/17/2018		3.4000	*	0.7000
Cobalt, total	ug/L	MW-26	04/11/2018		3.2000	*	0.7000
Cobalt, total	ug/L	MW-26	10/16/2018		2.1000	*	0.7000
Cobalt, total	ug/L	MW-26	04/17/2019	ND	0.8000		0.7000
Cobalt, total	ug/L	MW-26	10/15/2019		1.2000	*	0.7000
Cobalt, total	ug/L	MW-26	04/06/2020		1.0000	*	0.7000
Cobalt, total	ug/L	MW-26	10/14/2020		3.6000	*	0.7000
Cobalt, total	ug/L	MW-26	04/12/2021	ND	0.4000		0.7000
Cobalt, total	ug/L	MW-26	10/06/2021		3.6000	*	0.7000
Cobalt, total	ug/L	MW-26	04/14/2022		0.6000		0.7000
Cobalt, total	ug/L	MW-26	10/25/2022		0.9000	*	0.7000
Cobalt, total	ug/L	MW-26	04/03/2023	ND	0.4000		0.7000
Cobalt, total	ug/L	MW-26	10/16/2023		13.6000	*	0.7000
Cobalt, total	ug/L	MW-26	04/22/2024		1.1000	*	0.7000
Cobalt, total	ug/L	MW-26	10/07/2024		11.8000	*	0.7000
Arsenic, total	ug/L	MW-32	04/11/2018	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	10/16/2018	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	04/18/2019	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	10/16/2019	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	04/06/2020	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	10/13/2020	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	04/12/2021		5.5000	*	4.0000
Arsenic, total	ug/L	MW-32	07/01/2021	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	10/06/2021	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	04/14/2022	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	10/25/2022	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	04/03/2023	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	10/16/2023		8.9000	*	4.0000
Arsenic, total	ug/L	MW-32	04/22/2024	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-32	10/07/2024		4.2000	*	4.0000
Barium, total	ug/L	MW-32	04/11/2018		247.0000		272.4527
Barium, total	ug/L	MW-32	10/16/2018		199.0000		272.4527
Barium, total	ug/L	MW-32	04/18/2019		238.0000		272.4527
Barium, total	ug/L	MW-32	10/16/2019		199.0000		272.4527
Barium, total	ug/L	MW-32	04/06/2020		205.0000		272.4527
Barium, total	ug/L	MW-32	10/13/2020		188.0000		272.4527
Barium, total	ug/L	MW-32	04/12/2021		254.0000		272.4527
Barium, total	ug/L	MW-32	07/01/2021		219.0000		272.4527
Barium, total	ug/L	MW-32	10/06/2021		197.0000		272.4527
Barium, total	ug/L	MW-32	04/14/2022		206.0000		272.4527
Barium, total	ug/L	MW-32	10/25/2022		281.0000	*	272.4527
Barium, total	ug/L	MW-32	04/03/2023		344.0000	*	272.4527
Barium, total	ug/L	MW-32	10/16/2023		460.0000	*	272.4527
Barium, total	ug/L	MW-32	04/22/2024		421.0000	*	272.4527
Barium, total	ug/L	MW-32	10/07/2024		326.0000	*	272.4527
Cobalt, total	ug/L	MW-32	01/17/2018		1.7000	*	0.7000
Cobalt, total	ug/L	MW-32	04/11/2018		1.0000	*	0.7000
Cobalt, total	ug/L	MW-32	10/16/2018	ND	0.8000		0.7000
Cobalt, total	ug/L	MW-32	04/18/2019		0.8000	*	0.7000
Cobalt, total	ug/L	MW-32	10/16/2019	ND	0.8000		0.7000
Cobalt, total	ug/L	MW-32	04/06/2020		0.7000		0.7000
Cobalt, total	ug/L	MW-32	10/13/2020	ND	0.4000		0.7000
Cobalt, total	ug/L	MW-32	04/12/2021		0.4000		0.7000
Cobalt, total	ug/L	MW-32	10/06/2021	ND	0.4000		0.7000

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

Table 8

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

Constituent	Units	Well	Date		Result		Pred. Limit
Cobalt, total	ug/L	MW-32	04/14/2022		0.4000		0.7000
Cobalt, total	ug/L	MW-32	10/25/2022		2.3000	*	0.7000
Cobalt, total	ug/L	MW-32	04/03/2023		0.6000		0.7000
Cobalt, total	ug/L	MW-32	10/16/2023	ND	0.4000		0.7000
Cobalt, total	ug/L	MW-32	04/22/2024		1.4000	*	0.7000
Cobalt, total	ug/L	MW-32	10/07/2024		0.4000		0.7000
Arsenic, total	ug/L	MW-9	10/17/2007		15.0000	*	4.0000
Arsenic, total	ug/L	MW-9	01/11/2008		12.7000	*	4.0000
Arsenic, total	ug/L	MW-9	04/10/2008		4.4300	*	4.0000
Arsenic, total	ug/L	MW-9	07/17/2008		9.9300	*	4.0000
Arsenic, total	ug/L	MW-9	10/21/2008		8.0200	*	4.0000
Arsenic, total	ug/L	MW-9	04/13/2009		4.5200	*	4.0000
Arsenic, total	ug/L	MW-9	10/14/2009		3.4000		4.0000
Arsenic, total	ug/L	MW-9	04/20/2010		4.3400	*	4.0000
Arsenic, total	ug/L	MW-9	10/13/2010		6.3100	*	4.0000
Arsenic, total	ug/L	MW-9	04/14/2011		5.2000	*	4.0000
Arsenic, total	ug/L	MW-9	10/11/2011		15.9000	*	4.0000
Arsenic, total	ug/L	MW-9	04/18/2012		6.6600	*	4.0000
Arsenic, total	ug/L	MW-9	10/11/2012		327.0000	*	4.0000
Arsenic, total	ug/L	MW-9	04/23/2013	ND	1.0000		4.0000
Arsenic, total	ug/L	MW-9	10/29/2013		4.5300	*	4.0000
Arsenic, total	ug/L	MW-9	04/23/2014		8.2700	*	4.0000
Arsenic, total	ug/L	MW-9	10/24/2014		3.3400		4.0000
Arsenic, total	ug/L	MW-9	10/20/2015	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	04/11/2016		31.9000	*	4.0000
Arsenic, total	ug/L	MW-9	10/12/2016	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	04/12/2017	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	10/25/2017	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	04/11/2018		4.1000	*	4.0000
Arsenic, total	ug/L	MW-9	10/16/2018	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	04/18/2019		14.1000	*	4.0000
Arsenic, total	ug/L	MW-9	10/16/2019	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	04/06/2020		16.8000	*	4.0000
Arsenic, total	ug/L	MW-9	10/14/2020	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	04/12/2021		11.8000	*	4.0000
Arsenic, total	ug/L	MW-9	10/06/2021	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	04/15/2022		10.7000	*	4.0000
Arsenic, total	ug/L	MW-9	10/25/2022		5.1000	*	4.0000
Arsenic, total	ug/L	MW-9	04/03/2023		4.5000	*	4.0000
Arsenic, total	ug/L	MW-9	10/16/2023		6.1000	*	4.0000
Arsenic, total	ug/L	MW-9	04/22/2024	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-9	10/07/2024		5.1000	*	4.0000
Barium, total	ug/L	MW-9	10/17/2007		416.0000	*	272.4527
Barium, total	ug/L	MW-9	01/11/2008		430.0000	*	272.4527
Barium, total	ug/L	MW-9	04/10/2008		421.0000	*	272.4527
Barium, total	ug/L	MW-9	07/17/2008		432.0000	*	272.4527
Barium, total	ug/L	MW-9	10/21/2008		733.0000	*	272.4527
Barium, total	ug/L	MW-9	04/13/2009		420.0000	*	272.4527
Barium, total	ug/L	MW-9	10/14/2009		344.0000	*	272.4527
Barium, total	ug/L	MW-9	04/20/2010		352.0000	*	272.4527
Barium, total	ug/L	MW-9	10/13/2010		353.0000	*	272.4527
Barium, total	ug/L	MW-9	04/14/2011		310.0000	*	272.4527
Barium, total	ug/L	MW-9	10/11/2011		418.0000	*	272.4527
Barium, total	ug/L	MW-9	04/18/2012		373.0000	*	272.4527
Barium, total	ug/L	MW-9	10/11/2012		3370.0000	*	272.4527
Barium, total	ug/L	MW-9	04/23/2013		415.0000	*	272.4527
Barium, total	ug/L	MW-9	10/29/2013		548.0000	*	272.4527
Barium, total	ug/L	MW-9	04/23/2014		525.0000	*	272.4527
Barium, total	ug/L	MW-9	10/24/2014		435.0000	*	272.4527
Barium, total	ug/L	MW-9	10/20/2015		389.0000	*	272.4527
Barium, total	ug/L	MW-9	04/11/2016		608.0000	*	272.4527
Barium, total	ug/L	MW-9	10/12/2016		296.0000	*	272.4527
Barium, total	ug/L	MW-9	04/12/2017		346.0000	*	272.4527
Barium, total	ug/L	MW-9	10/25/2017		304.0000	*	272.4527
Barium, total	ug/L	MW-9	04/11/2018		303.0000	*	272.4527
Barium, total	ug/L	MW-9	10/16/2018		605.0000	*	272.4527
Barium, total	ug/L	MW-9	04/18/2019		432.0000	*	272.4527
Barium, total	ug/L	MW-9	10/16/2019		270.0000		272.4527
Barium, total	ug/L	MW-9	04/06/2020		474.0000	*	272.4527
Barium, total	ug/L	MW-9	10/14/2020		281.0000	*	272.4527
Barium, total	ug/L	MW-9	04/12/2021		369.0000	*	272.4527

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

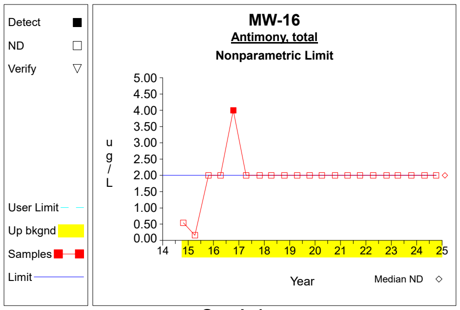
Table 8

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

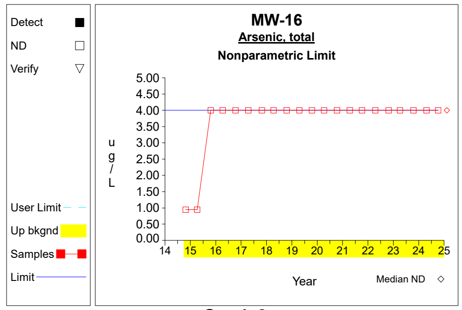
Constituent	Units	Well	Date		Result		Pred. Limit
Barium, total	ug/L	MW-9	10/06/2021		285.0000	*	272.4527
Barium, total	ug/L	MW-9	04/15/2022		379.0000	*	272.4527
Barium, total	ug/L	MW-9	10/25/2022		353.0000	*	272.4527
Barium, total	ug/L	MW-9	04/03/2023		334.0000	*	272.4527
Barium, total	ug/L	MW-9	10/16/2023		435.0000	*	272.4527
Barium, total	ug/L	MW-9	04/22/2024		394.0000	*	272.4527
Barium, total	ug/L	MW-9	10/07/2024		519.0000	*	272.4527
Cobalt, total	ug/L	MW-9	10/17/2007	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-9	01/11/2008	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-9	04/10/2008	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-9	07/17/2008	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-9	10/21/2008	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-9	04/13/2009	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-9	10/14/2009	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-9	04/20/2010	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-9	10/13/2010	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-9	04/14/2011	ND	20.0000		0.7000
Cobalt, total	ug/L	MW-9	10/11/2011	ND	10.0000		0.7000
Cobalt, total	ug/L	MW-9	04/18/2012	ND	10.0000		0.7000
Cobalt, total	ug/L	MW-9	10/11/2012	ND	10.0000		0.7000
Cobalt, total	ug/L	MW-9	04/23/2013	ND	10.0000		0.7000
Cobalt, total	ug/L	MW-9	10/29/2013		2.8700	*	0.7000
Cobalt, total	ug/L	MW-9	04/23/2014		4.1300	*	0.7000
Cobalt, total	ug/L	MW-9	10/24/2014		1.6500	*	0.7000
Cobalt, total	ug/L	MW-9	10/20/2015		0.9000	*	0.7000
Cobalt, total	ug/L	MW-9	04/11/2016		1.3000	*	0.7000
Cobalt, total	ug/L	MW-9	10/12/2016	ND	0.8000		0.7000
Cobalt, total	ug/L	MW-9	04/12/2017		1.1000	*	0.7000
Cobalt, total	ug/L	MW-9	10/25/2017	ND	0.8000		0.7000
Cobalt, total	ug/L	MW-9	04/11/2018		1.0000	*	0.7000
Cobalt, total	ug/L	MW-9	10/16/2018	ND	0.8000		0.7000
Cobalt, total	ug/L	MW-9	04/18/2019		0.9000	*	0.7000
Cobalt, total	ug/L	MW-9	10/16/2019	ND	0.8000		0.7000
Cobalt, total	ug/L	MW-9	04/06/2020		0.9000	*	0.7000
Cobalt, total	ug/L	MW-9	10/14/2020		0.5000		0.7000
Cobalt, total	ug/L	MW-9	04/12/2021		1.0000	*	0.7000
Cobalt, total	ug/L	MW-9	10/06/2021		0.6000		0.7000
Cobalt, total	ug/L	MW-9	04/15/2022		1.5000	*	0.7000
Cobalt, total	ug/L	MW-9	10/25/2022		0.7000		0.7000
Cobalt, total	ug/L	MW-9	04/03/2023		1.1000	*	0.7000
Cobalt, total	ug/L	MW-9	10/16/2023		1.7000	*	0.7000
Cobalt, total	ug/L	MW-9	04/22/2024		1.6000	*	0.7000
Cobalt, total	ug/L	MW-9	10/07/2024		1.7000	*	0.7000

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

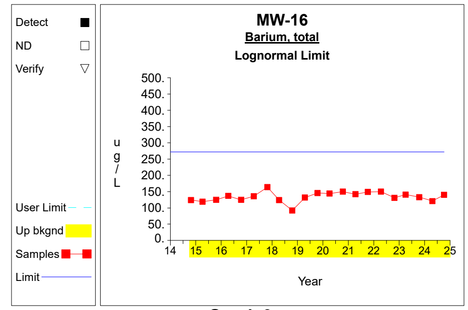
Up vs. Down Prediction Limits



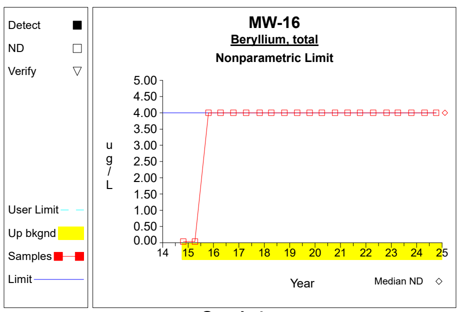
Graph 1



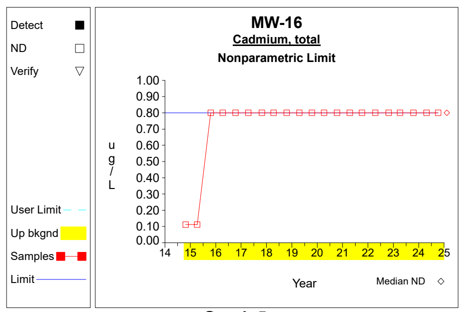
Graph 2



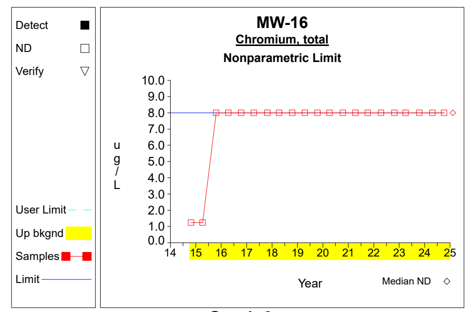
Graph 3



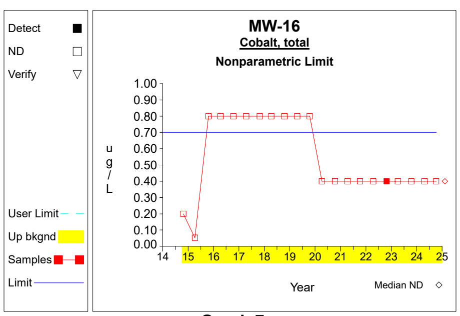
Graph 4



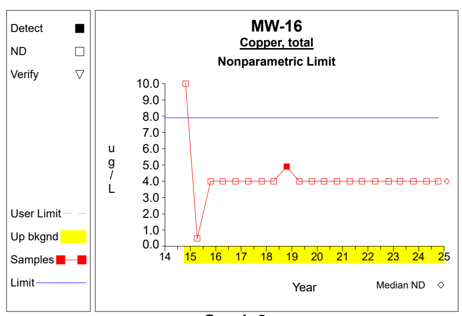
Graph 5



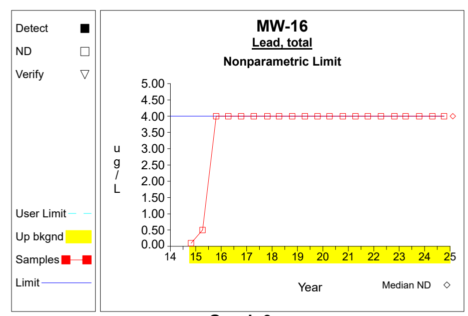
Graph 6



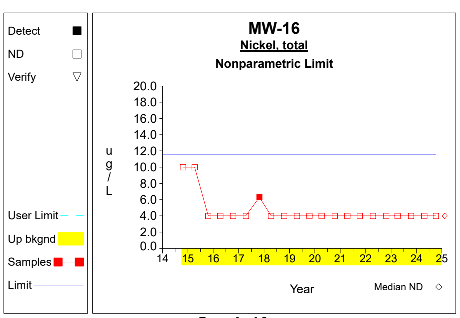
Graph 7



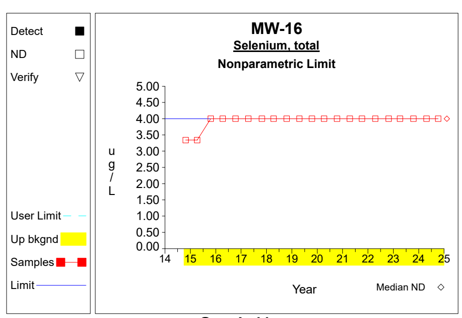
Graph 8



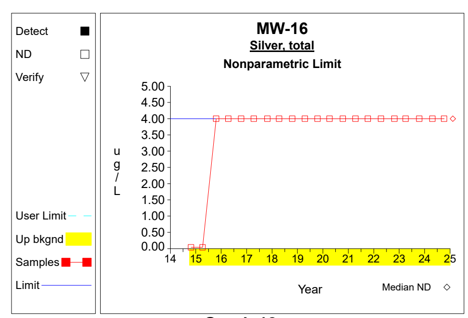
Graph 9



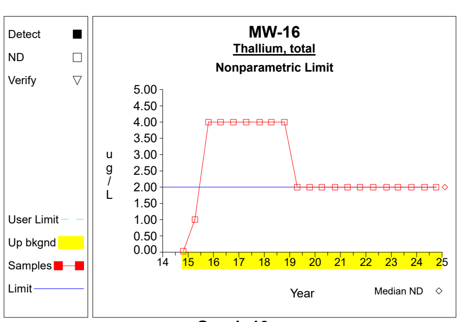
Graph 10



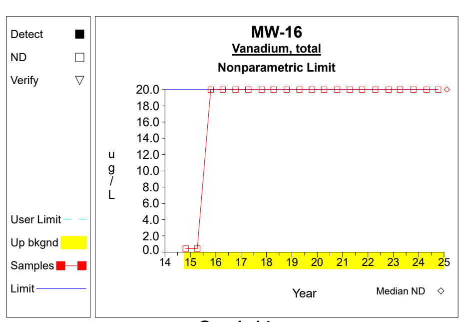
Graph 11



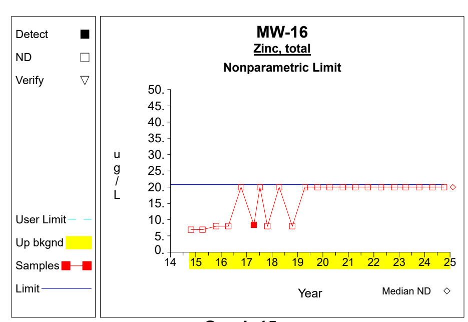
Graph 12



Graph 13



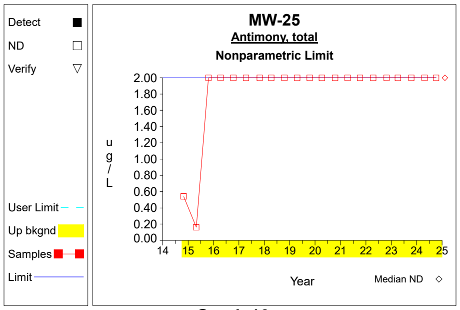
Graph 14



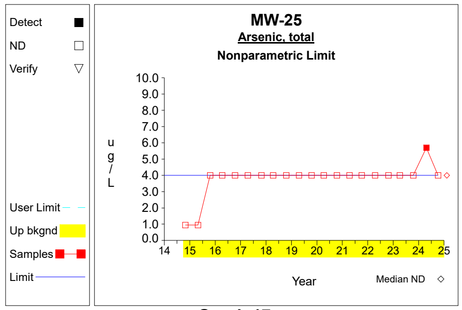
Graph 15

Prepared by: Otter Creek Environmental

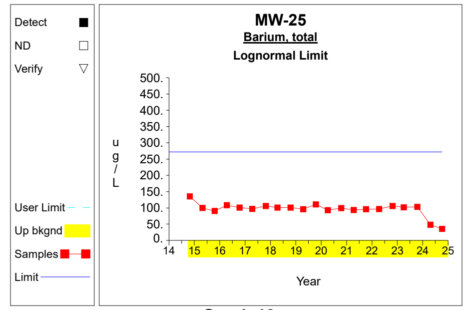
Up vs. Down Prediction Limits



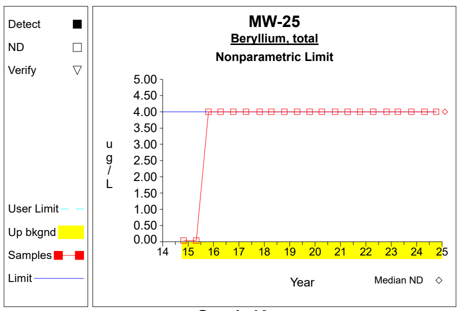
Graph 16



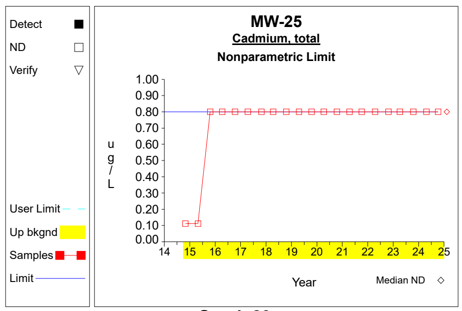
Graph 17



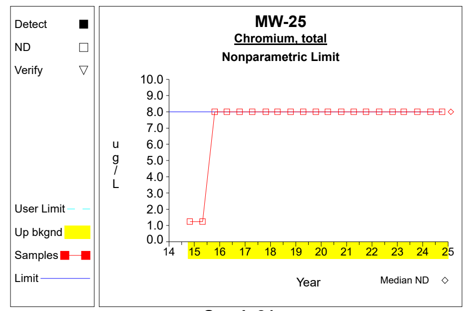
Graph 18



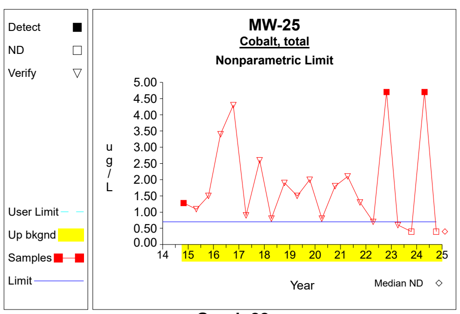
Graph 19



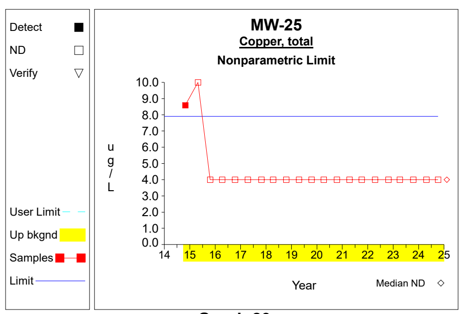
Graph 20



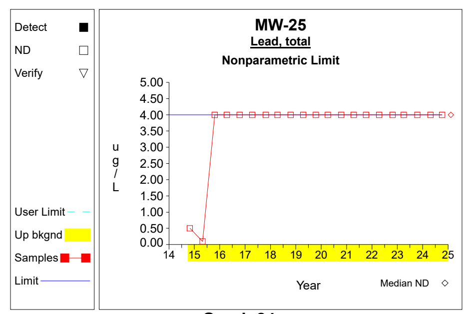
Graph 21



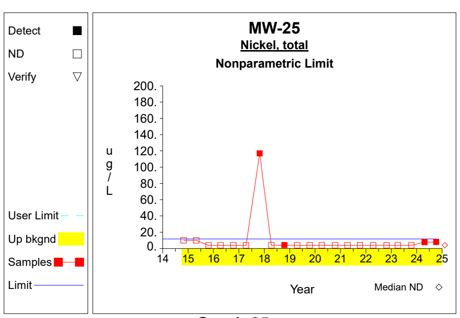
Graph 22



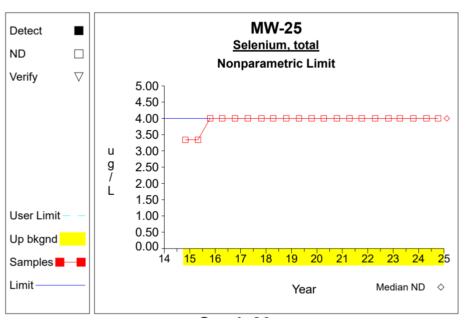
Graph 23



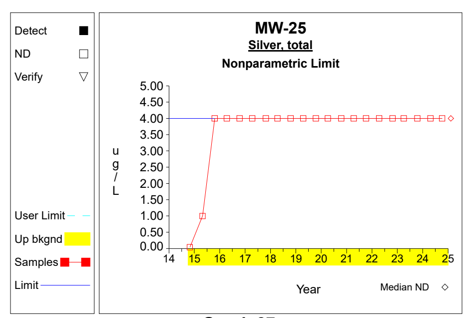
Graph 24



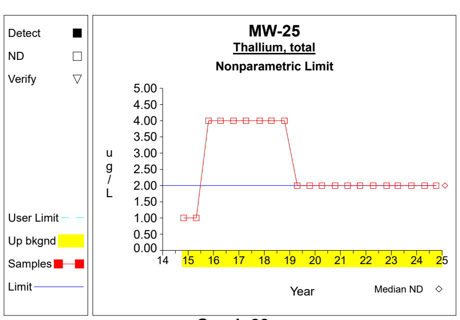
Graph 25



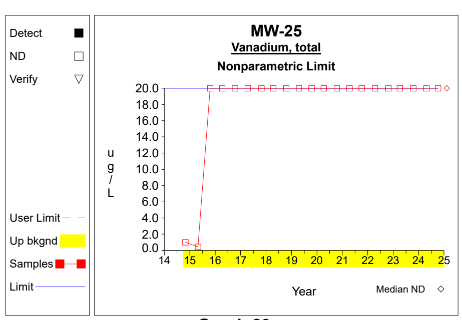
Graph 26



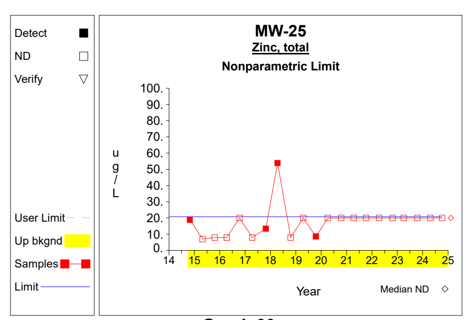
Graph 27



Graph 28

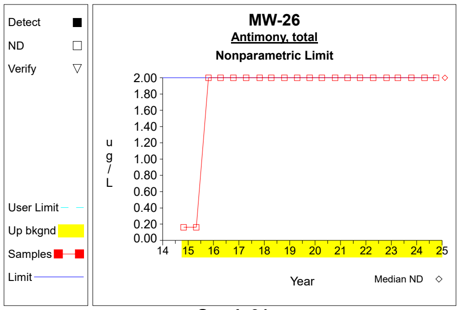


Graph 29

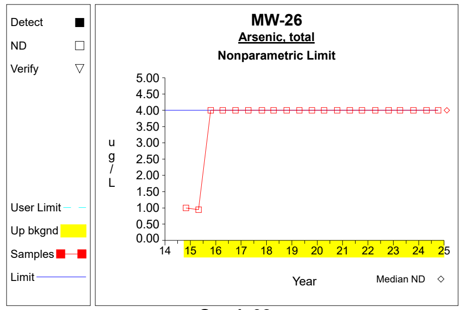


Graph 30

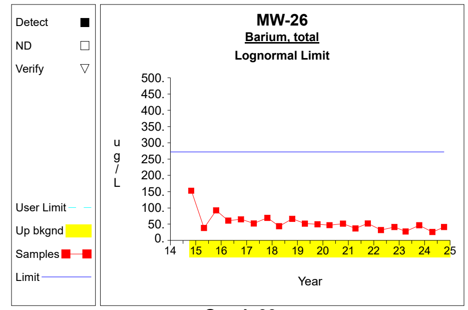
Up vs. Down Prediction Limits



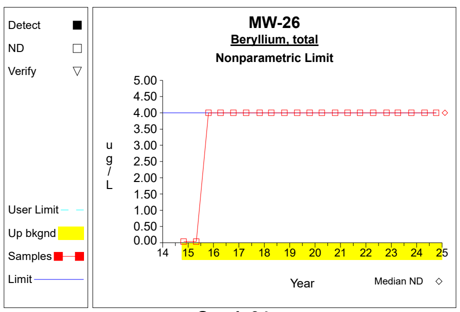
Graph 31



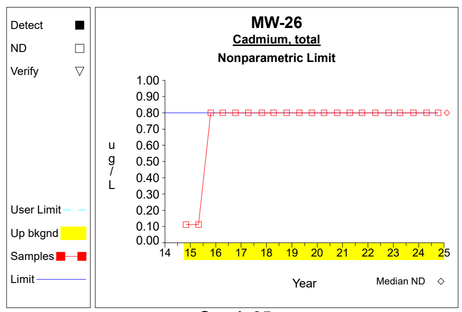
Graph 32



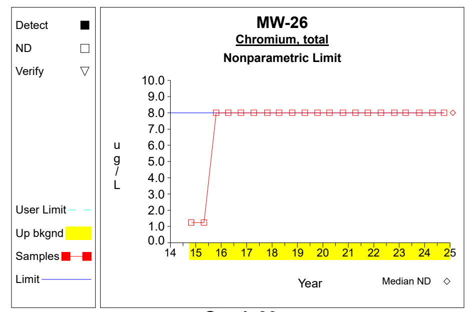
Graph 33



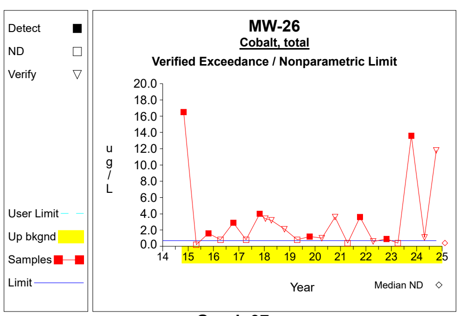
Graph 34



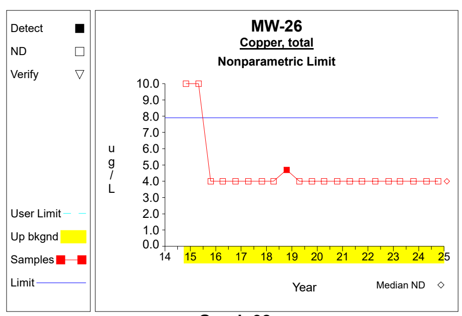
Graph 35



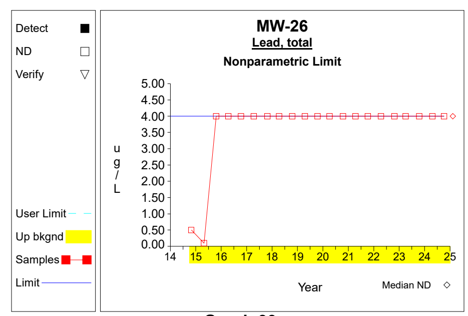
Graph 36



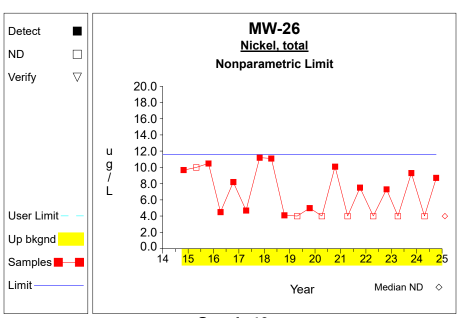
Graph 37



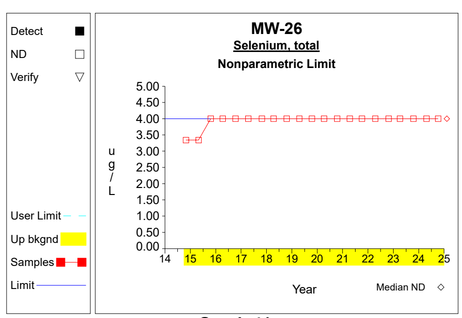
Graph 38



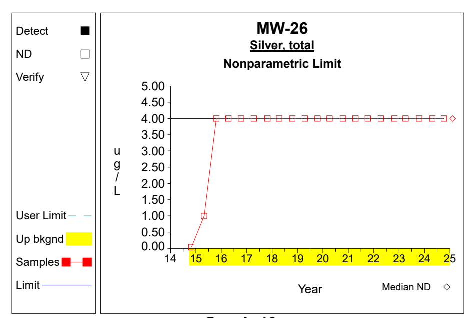
Graph 39



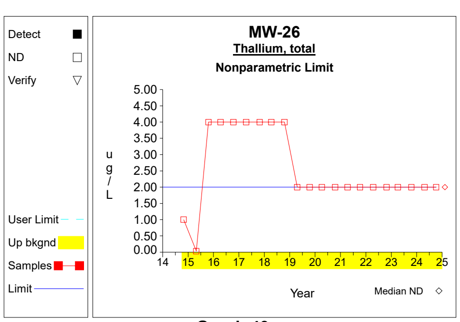
Graph 40



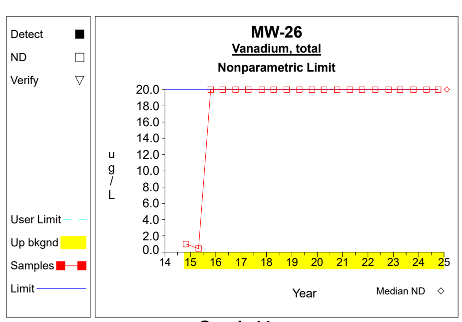
Graph 41



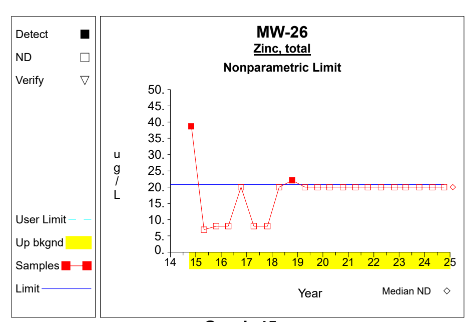
Graph 42



Graph 43



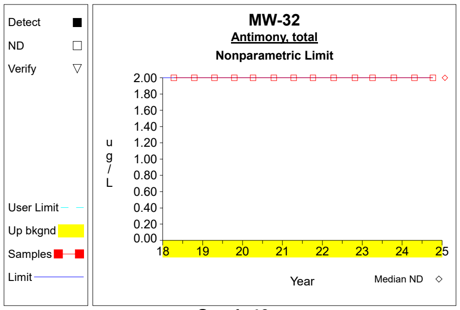
Graph 44



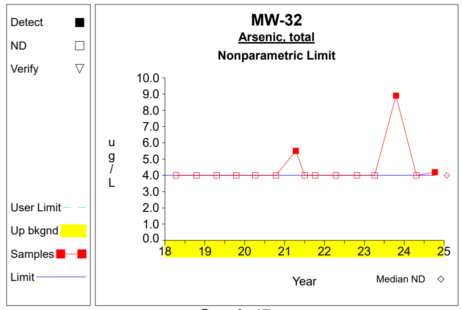
Graph 45

Prepared by: Otter Creek Environmental

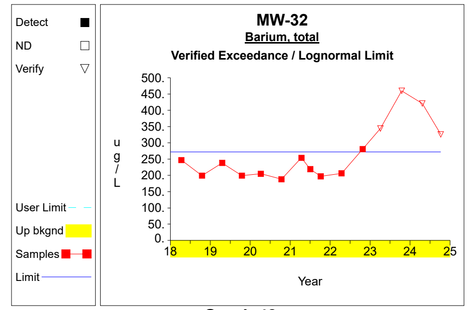
Up vs. Down Prediction Limits



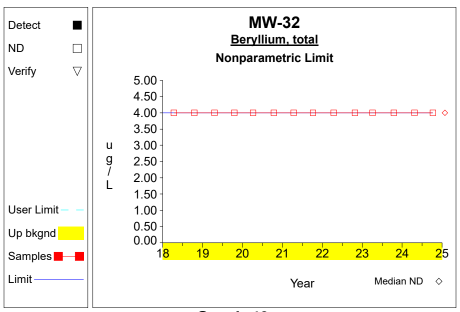
Graph 46



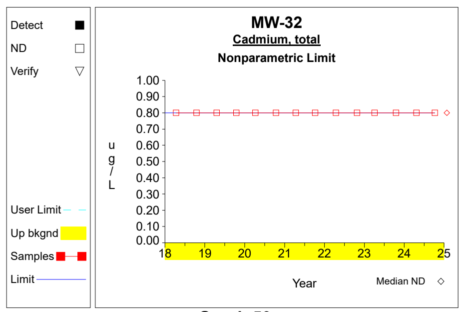
Graph 47



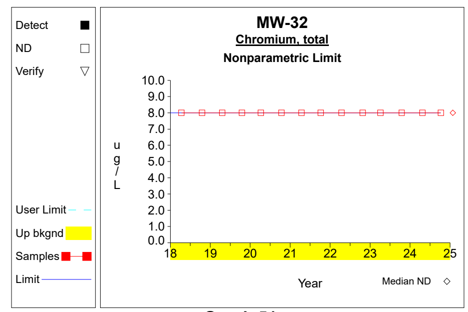
Graph 48



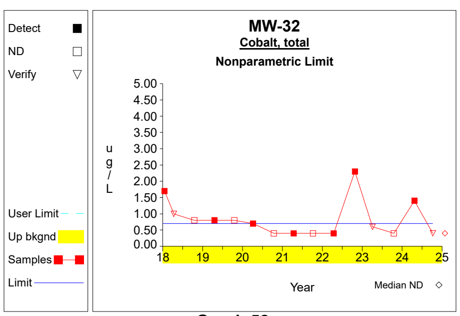
Graph 49



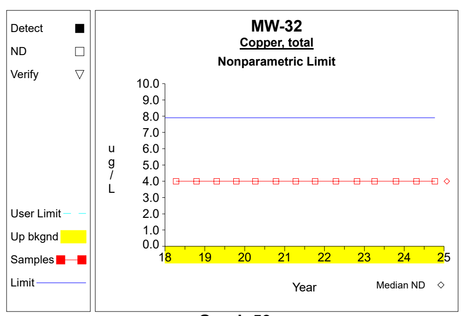
Graph 50



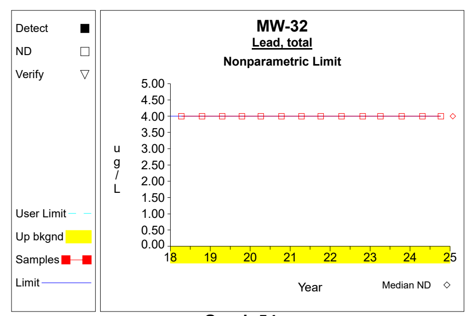
Graph 51



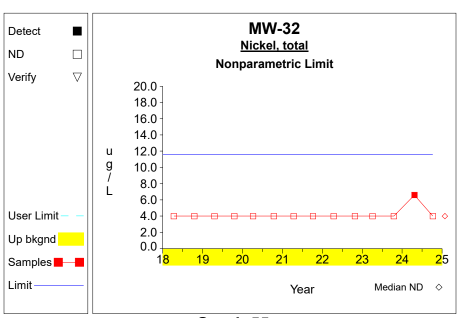
Graph 52



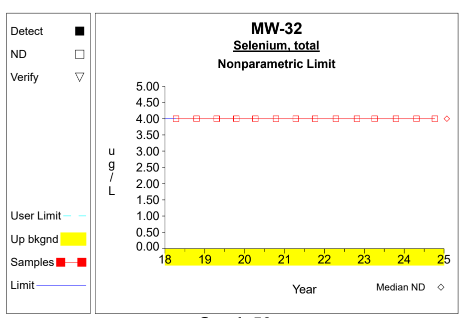
Graph 53



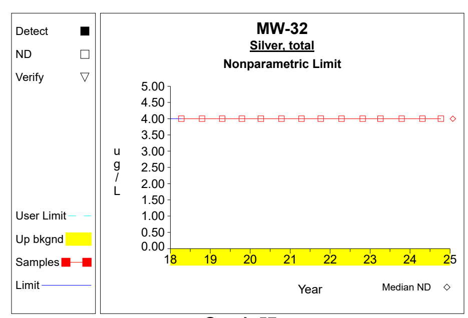
Graph 54



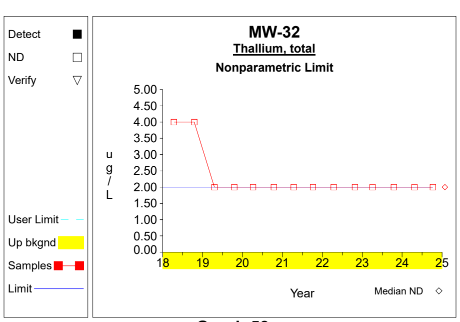
Graph 55



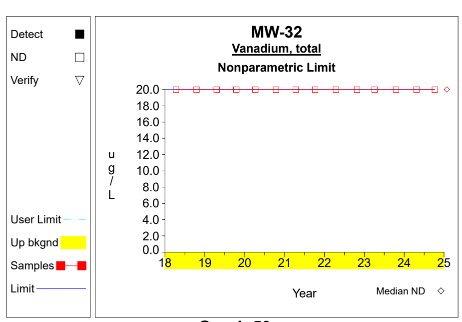
Graph 56



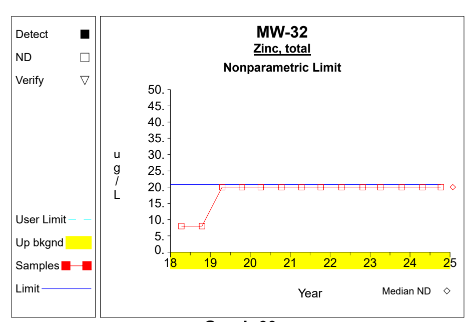
Graph 57



Graph 58



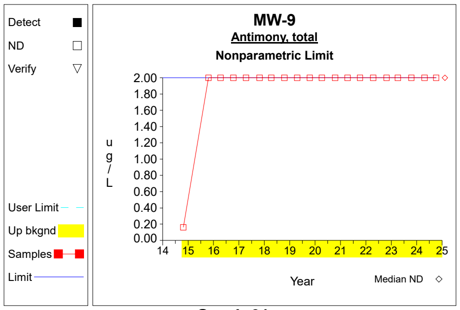
Graph 59



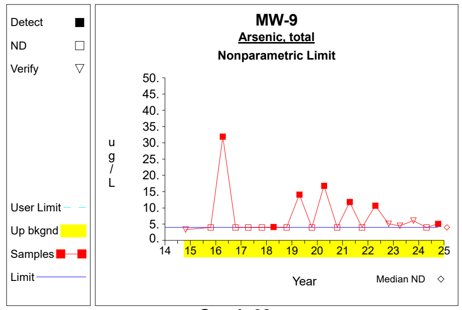
Graph 60

Fayette County [GW] November 2024

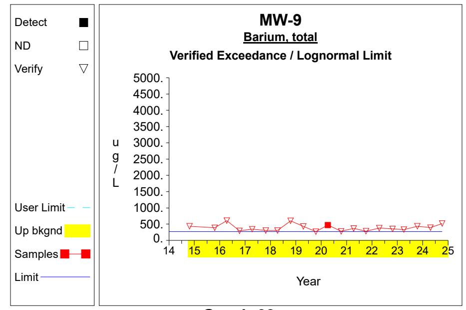
Up vs. Down Prediction Limits



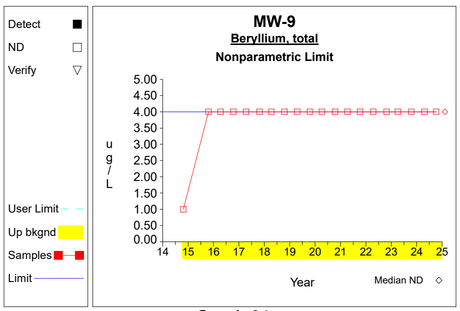
Graph 61



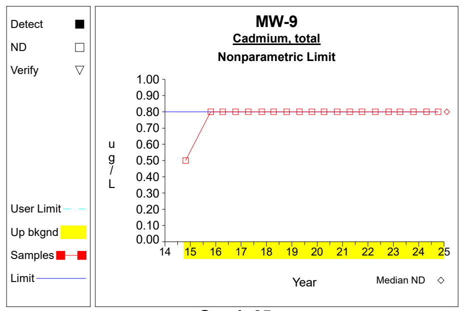
Graph 62



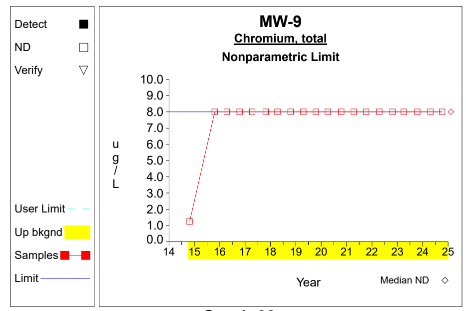
Graph 63



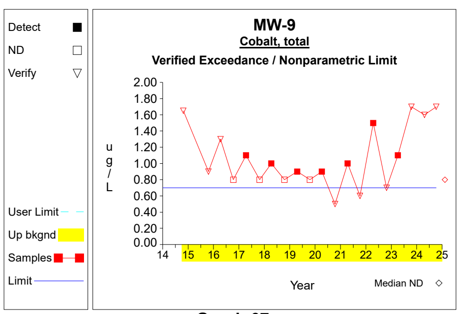
Graph 64



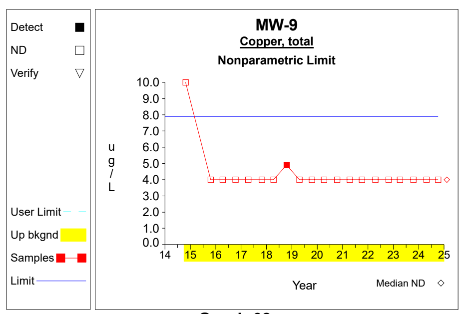
Graph 65



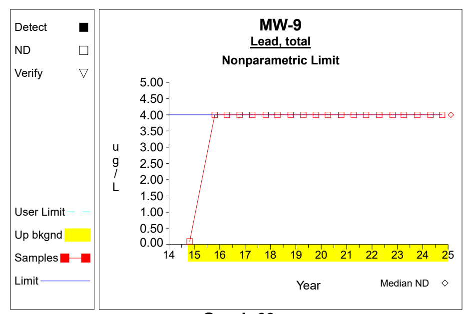
Graph 66



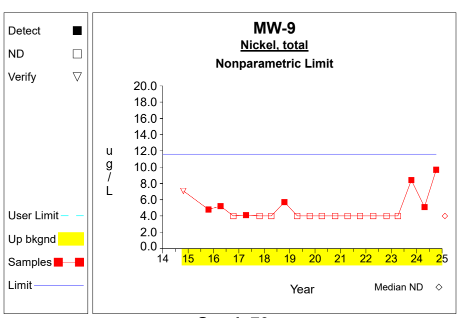
Graph 67



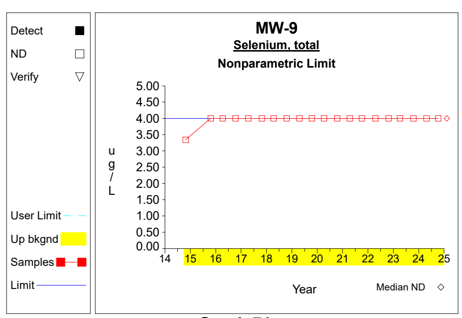
Graph 68



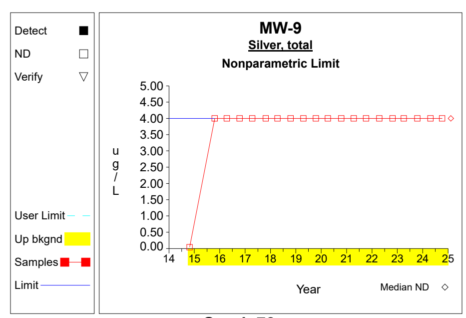
Graph 69



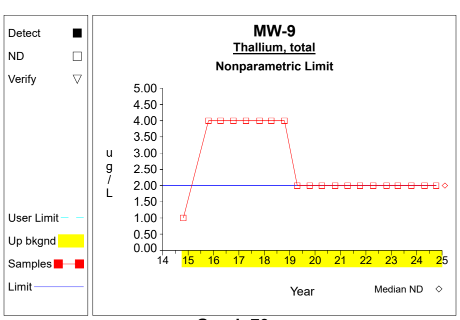
Graph 70



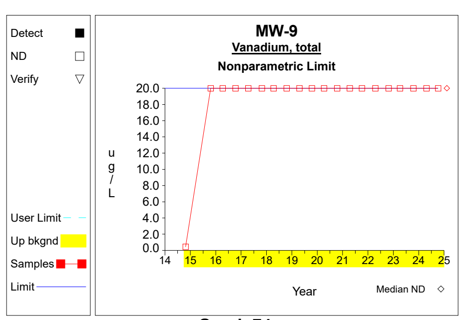
Graph 71



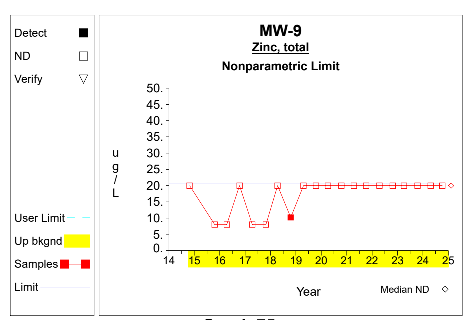
Graph 72



Graph 73



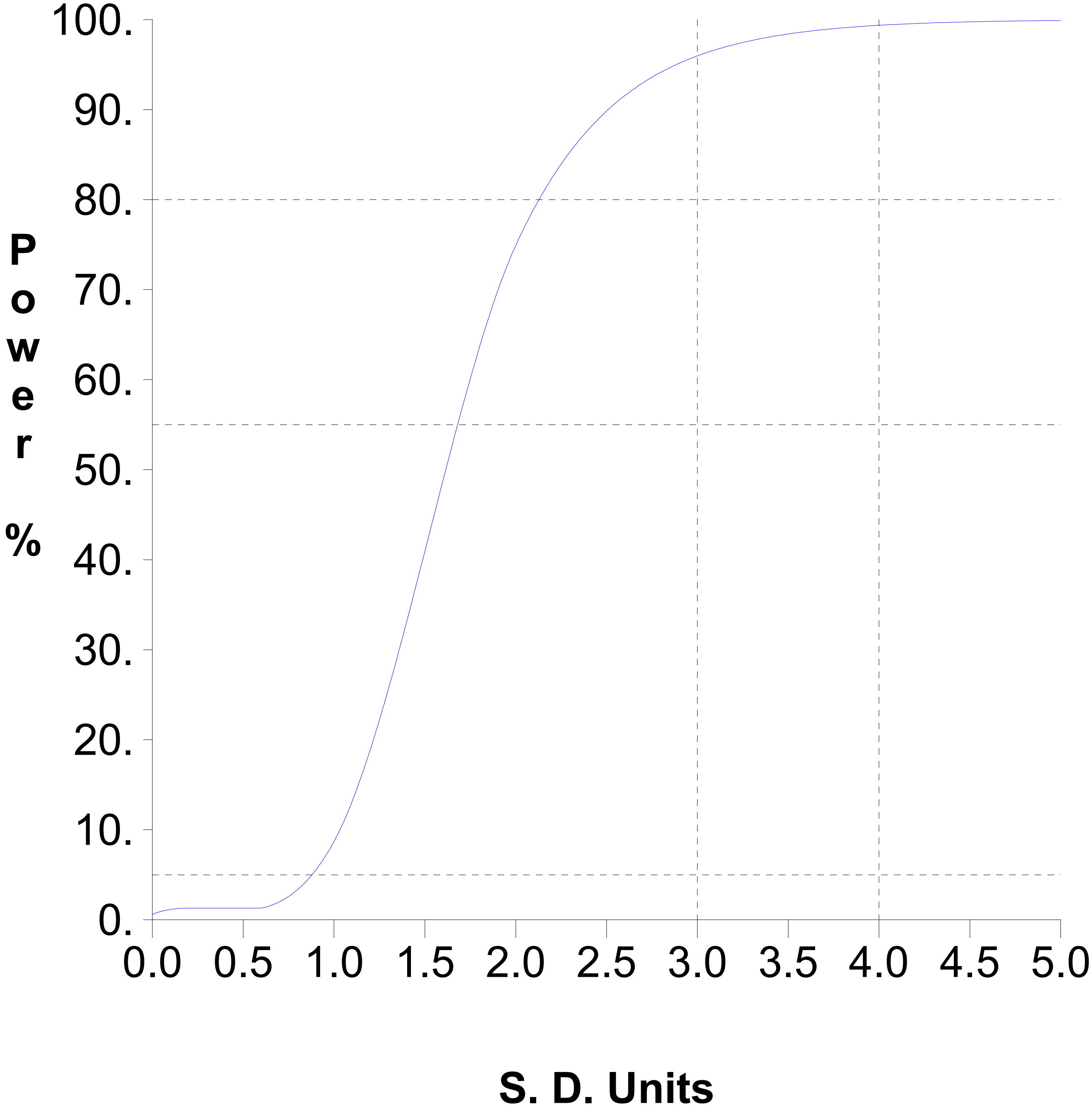
Graph 74



Graph 75

Prepared by: Otter Creek Environmental

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



Worksheet 1 - Upgradient vs. Downgradient Comparisons
Antimony, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **2.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Arsenic, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **4.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Barium, total (ug/L)
Lognormal Prediction Limit

Step	Equation	Description
1	$Y = \log_e(X)$	Transform to natural logarithmic scale.
2	$\bar{Y} = \mathbf{sum[Y]} / \mathbf{N}$ $= \mathbf{278.444} / \mathbf{61}$ $= \mathbf{4.565}$	Compute mean on a natural log scale.
3	$S_Y = ((\mathbf{sum[Y^2]} - \mathbf{sum[Y]}^2/\mathbf{N}) / (\mathbf{N}-1))^{1/2}$ $= ((\mathbf{1282.241} - \mathbf{77531.247}/\mathbf{61}) / (\mathbf{61}-1))^{1/2}$ $= \mathbf{0.433}$	Compute sd on a natural log scale.
4	$\text{alpha} = \min[(1-.95^{1/\mathbf{K}})^{1/2}, .01]$ $= \min[(1-.95^{1/\mathbf{75}})^{1/2}, .01]$ $= \mathbf{0.01}$	Adjusted per comparison false positive rate. Pass initial or 1 resample.
5	$PL = \exp[\bar{\mathbf{Y}} + \mathbf{t}\mathbf{S_Y}(1+1/\mathbf{N})^{1/2}]$ $= \exp[\mathbf{4.565} + (\mathbf{2.39}*\mathbf{0.433})(1+1/\mathbf{61})^{1/2}]$ $= \mathbf{272.453}$	One-sided lognormal prediction limit (t is Student's t on N-1 degrees of freedom and 1-alpha confidence level).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Beryllium, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **4.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Cadmium, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **0.8**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Chromium, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **8.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Cobalt, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **0.7**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Copper, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **7.9**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Lead, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **4.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Nickel, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **11.6**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Selenium, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **4.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Silver, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **4.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Thallium, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **2.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Vanadium, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **20.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Zinc, total (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **20.8**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Attachment C

Assessment Statistics

Table 1

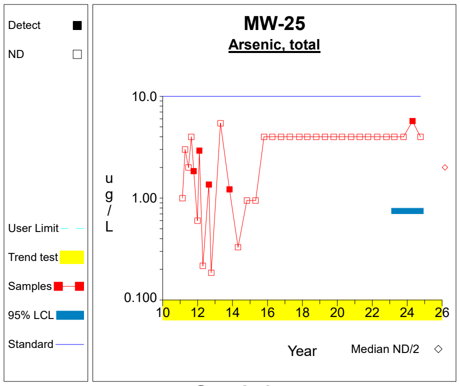
Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Arsenic, total	ug/L	MW-25	4	2.925	1.850	1.176	0.749	5.101	10.000	
Barium, total	ug/L	MW-25	4	72.225	35.343	1.176	30.651	113.799	2000.000	dec
Cobalt, total	ug/L	MW-25	4	1.713	1.993	1.176	0.000	4.057	2.100	
Arsenic, total	ug/L	MW-26	4	2.000	0.000	1.176	2.000	2.000	10.000	
Barium, total	ug/L	MW-26	4	35.275	10.057	1.176	23.445	47.105	2000.000	dec
Cobalt, total	ug/L	MW-26	4	6.819	6.832	1.176	0.000	14.855	2.100	
Arsenic, total	ug/L	MW-32	4	4.275	3.253	1.176	0.448	8.102	10.000	
Barium, total	ug/L	MW-32	4	387.750	63.384	1.176	313.192	462.308	2000.000	
Cobalt, total	ug/L	MW-32	4	0.650	0.526	1.176	0.031	1.269	2.100	
Arsenic, total	ug/L	MW-9	4	4.425	1.746	1.176	2.371	6.479	10.000	
Barium, total	ug/L	MW-9	4	420.500	77.668	1.176	329.140	511.860	2000.000	
Cobalt, total	ug/L	MW-9	4	1.525	0.287	1.176	1.187	1.863	2.100	

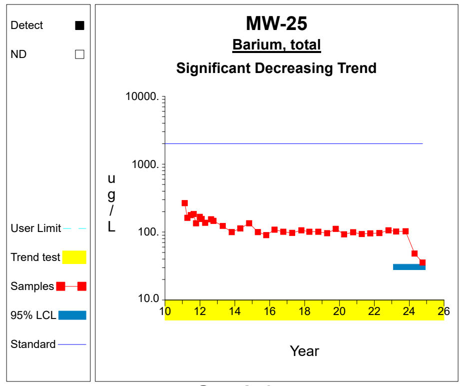
* - Insufficient Data
** - Significant Exceedance
LCL = Lower Confidence Limit
UCL = Upper Confidence Limit

Fayette County [GW] November 2024

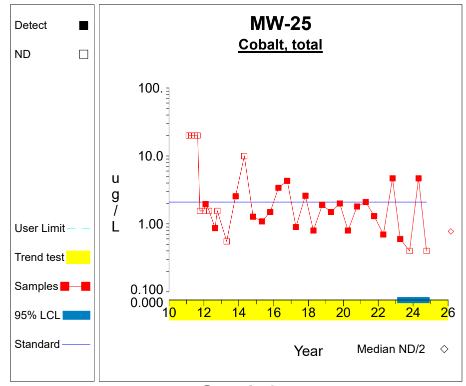
Confidence Limits (Assessment)



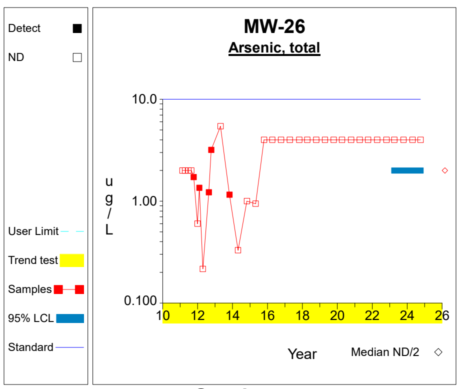
Graph 1



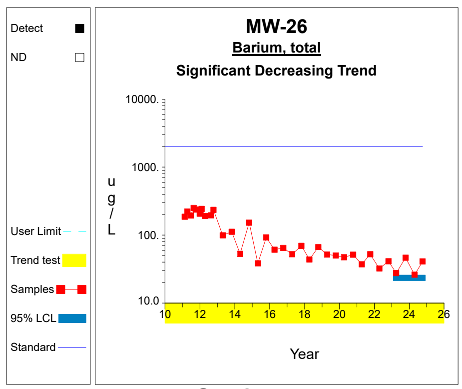
Graph 2



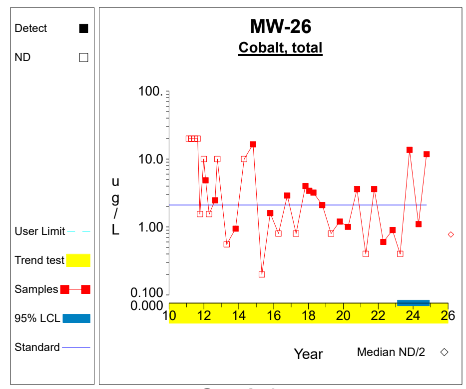
Graph 3



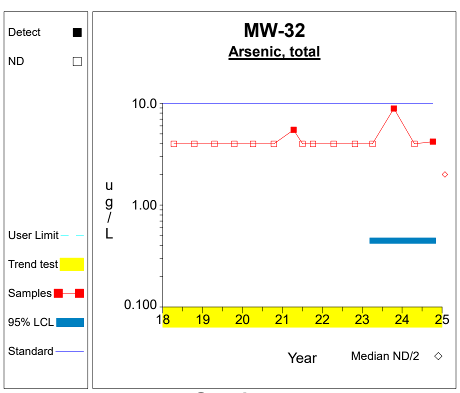
Graph 4



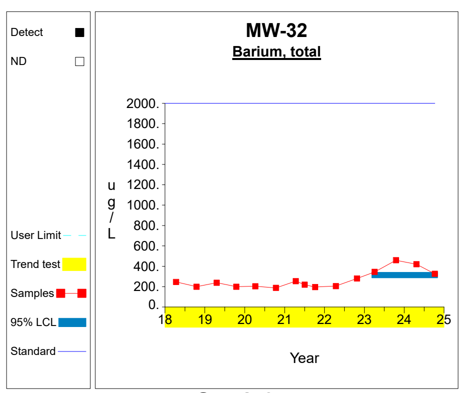
Graph 5



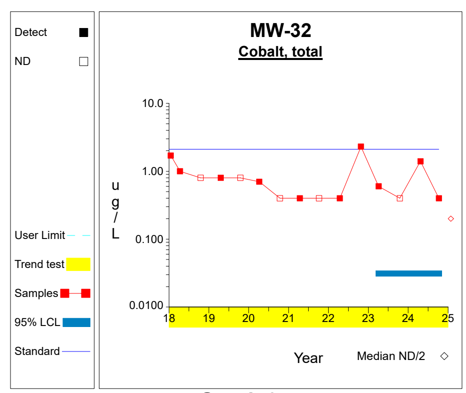
Graph 6



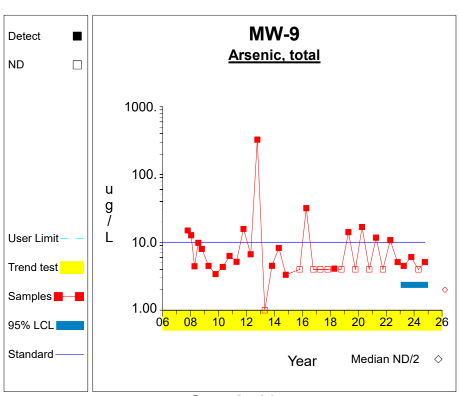
Graph 7



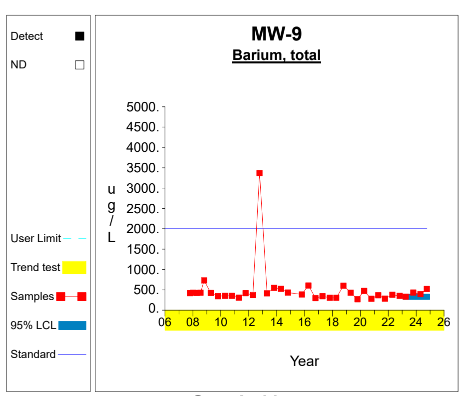
Graph 8



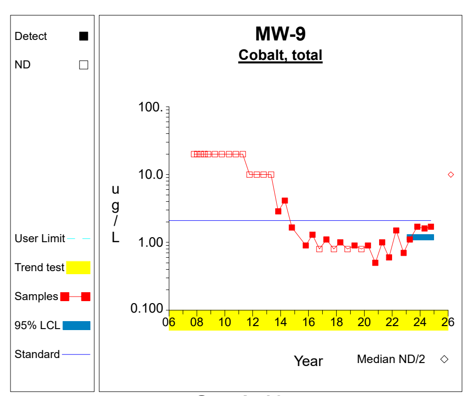
Graph 9



Graph 10



Graph 11



Graph 12

Prepared by: Otter Creek Environmental

Worksheet 6 - Assessment Monitoring
Arsenic, total (ug/L) at MW-25

Step	Equation	Description
1	$\bar{X} = \mathbf{sum[X]} / \mathbf{N}$ $= \mathbf{11.7} / \mathbf{4}$ $= \mathbf{2.925}$	Compute the mean of the last 4 measurements.
2	$S = ((\mathbf{sum[X^2]} - \mathbf{sum[X]}^2/\mathbf{N}) / (\mathbf{N}-1))^{1/2}$ $= ((\mathbf{44.49} - \mathbf{136.89/4}) / (\mathbf{4}-1))^{1/2}$ $= \mathbf{1.85}$	Compute sd of the last 4 measurements.
3	$LCL = \bar{\mathbf{X}} - \mathbf{tS/N}^{1/2}$ $= \mathbf{2.925} - \mathbf{2.353} * \mathbf{1.85/4}^{1/2}$ $= \mathbf{0.749}$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$UCL = \bar{\mathbf{X}} + \mathbf{tS/N}^{1/2}$ $= \mathbf{2.925} + \mathbf{2.353} * \mathbf{1.85/4}^{1/2}$ $= \mathbf{5.101}$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = \mathbf{N} * (\mathbf{N}-1) / 2$ $= \mathbf{34} * (\mathbf{34}-1) / 2$ $= \mathbf{561}$	Number of sample pairs during trend detection period.
6	$S = \mathbf{0.0}$	Sen's estimator of trend.
7	$var(S) = \mathbf{1708.333}$	Variance estimate for slope.
8	$M(S) = (\mathbf{N'} \pm \mathbf{Z}_{.995} * \mathbf{var(S)}^{1/2}) / 2$ $= (\mathbf{561} \pm \mathbf{2.576} * \mathbf{1708.333}^{1/2}) / 2$ $= [\ \mathbf{227.264}, \mathbf{333.736}\ ]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M^{th} largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$CL(S) = [\ \mathbf{0.0}, \mathbf{0.0}\ ]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Barium, total (ug/L) at MW-25

Step	Equation	Description
1	$\bar{X} = \mathbf{sum[X]} / \mathbf{N}$ $= \mathbf{288.9} / \mathbf{4}$ $= \mathbf{72.225}$	Compute the mean of the last 4 measurements.
2	$S = ((\mathbf{sum[X^2]} - \mathbf{sum[X]}^2/\mathbf{N}) / (\mathbf{N}-1))^{½}$ $= ((\mathbf{24613.25} - \mathbf{83463.21}/\mathbf{4}) / (\mathbf{4}-1))^{½}$ $= \mathbf{35.343}$	Compute sd of the last 4 measurements.
3	$LCL = \bar{\mathbf{X}} - \mathbf{tS}/\mathbf{N}^{½}$ $= \mathbf{72.225} - \mathbf{2.353} * \mathbf{35.343}/\mathbf{4}^{½}$ $= \mathbf{30.651}$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$UCL = \bar{\mathbf{X}} + \mathbf{tS}/\mathbf{N}^{½}$ $= \mathbf{72.225} + \mathbf{2.353} * \mathbf{35.343}/\mathbf{4}^{½}$ $= \mathbf{113.799}$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = \mathbf{N} * (\mathbf{N}-1) / 2$ $= \mathbf{34} * (\mathbf{34}-1) / 2$ $= \mathbf{561}$	Number of sample pairs during trend detection period.
6	$S = \mathbf{-6.45}$	Sen's estimator of trend.
7	$var(S) = \mathbf{4543.667}$	Variance estimate for slope.
8	$M(S) = (\mathbf{N'} \pm \mathbf{Z}_{.995} * \mathbf{var(S)}^{½}) / 2$ $= (\mathbf{561} \pm \mathbf{2.576} * \mathbf{4543.667}^{½}) / 2$ $= [\ \mathbf{193.68}, \mathbf{367.32}\ ]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M^{th} largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$CL(S) = [\ \mathbf{-9.396}, \mathbf{-3.598}\ ]$	Two-sided confidence interval for slope.
10	$UCL(S) < 0$	**Significant decreasing trend.**

Worksheet 6 - Assessment Monitoring
Cobalt, total (ug/L) at MW-25

Step	Equation	Description
1	$\overline{X} = \mathbf{sum[X]} / \mathbf{N}$ $= \mathbf{6.85} / \mathbf{4}$ $= \mathbf{1.713}$	Compute the mean of the last 4 measurements.
2	$S = ((\mathbf{sum[X^2]} - \mathbf{sum[X]}^2/\mathbf{N}) / (\mathbf{N}-1))^{½}$ $= ((\mathbf{23.651} - \mathbf{46.923/4}) / (\mathbf{4}-1))^{½}$ $= \mathbf{1.993}$	Compute sd of the last 4 measurements.
3	$LCL = \overline{\mathbf{X}} - \mathbf{tS/N}^{½}$ $= \mathbf{1.713} - \mathbf{2.353} * \mathbf{1.993/4}^{½}$ $= \mathbf{0.0}$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$UCL = \overline{\mathbf{X}} + \mathbf{tS/N}^{½}$ $= \mathbf{1.713} + \mathbf{2.353} * \mathbf{1.993/4}^{½}$ $= \mathbf{4.057}$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = \mathbf{N} * (\mathbf{N}-1) / 2$ $= \mathbf{34} * (\mathbf{34}-1) / 2$ $= \mathbf{561}$	Number of sample pairs during trend detection period.
6	$S = \mathbf{0.023}$	Sen's estimator of trend.
7	$var(S) = \mathbf{4334.667}$	Variance estimate for slope.
8	$M(S) = (\mathbf{N'} \pm \mathbf{Z}_{.995} * \mathbf{var(S)}^{½}) / 2$ $= (\mathbf{561} \pm \mathbf{2.576} * \mathbf{4334.667}^{½}) / 2$ $= [\ \mathbf{195.7}, \mathbf{365.3}\ ]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M^{th} largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$CL(S) = [\ \mathbf{0.0}, \mathbf{0.146}\ ]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Arsenic, total (ug/L) at MW-26

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **8.0** / **4** = **2.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]^2**/**N**) / (**N**-1))^{½} = ((**16.0** - **64.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = **$\overline{X}$** - **tS**/**N**^{½} = **2.0** - **2.353** * **0.0**/**4**^{½} = **2.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = **$\overline{X}$** + **tS**/**N**^{½} = **2.0** + **2.353** * **0.0**/**4**^{½} = **2.0**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **34** * (**34**-1) / 2 = **561**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **1708.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**561** ± **2.576** * **1708.333**^{½}) / 2 = [**227.264**, **333.736**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**0.0**, **0.0**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Barium, total (ug/L) at MW-26

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **141.1** / **4** = **35.275**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]^2**/**N**) / (**N**-1))$^{1/2}$ = ((**5280.71** - **19909.21**/**4**) / (**4**-1))$^{1/2}$ = **10.057**	Compute sd of the last 4 measurements.
3	LCL = **$\overline{X}$** - **tS**/**N**$^{1/2}$ = **35.275** - **2.353** * **10.057**/**4**$^{1/2}$ = **23.445**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = **$\overline{X}$** + **tS**/**N**$^{1/2}$ = **35.275** + **2.353** * **10.057**/**4**$^{1/2}$ = **47.105**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **34** * (**34**-1) / 2 = **561**	Number of sample pairs during trend detection period.
6	S = **-13.419**	Sen's estimator of trend.
7	var(S) = **4549.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{1/2}$) / 2 = (**561** ± **2.576** * **4549.333**$^{1/2}$) / 2 = [**193.626**, **367.374**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-19.189**, **-6.554**]	Two-sided confidence interval for slope.
10	UCL(S) < 0	**Significant decreasing trend.**

Worksheet 6 - Assessment Monitoring
Cobalt, total (ug/L) at MW-26

Step	Equation	Description
1	$\bar{X} = \textbf{sum[X]} / \textbf{N}$ $= \textbf{27.275} / \textbf{4}$ $= \textbf{6.819}$	Compute the mean of the last 4 measurements.
2	$S = ((\textbf{sum[X}^2\textbf{]} - \textbf{sum[X]}^2/\textbf{N}) / (\textbf{N}-1))^{½}$ $= ((\textbf{326.011} - \textbf{743.926/4}) / (\textbf{4}-1))^{½}$ $= \textbf{6.832}$	Compute sd of the last 4 measurements.
3	$LCL = \bar{\textbf{X}} - \textbf{tS/N}^{½}$ $= \textbf{6.819} - \textbf{2.353} * \textbf{6.832/4}^{½}$ $= \textbf{0.0}$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$UCL = \bar{\textbf{X}} + \textbf{tS/N}^{½}$ $= \textbf{6.819} + \textbf{2.353} * \textbf{6.832/4}^{½}$ $= \textbf{14.855}$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = \textbf{N} * (\textbf{N}-1) / 2$ $= \textbf{35} * (\textbf{35}-1) / 2$ $= \textbf{595}$	Number of sample pairs during trend detection period.
6	$S = \textbf{0.012}$	Sen's estimator of trend.
7	$var(S) = \textbf{4464.0}$	Variance estimate for slope.
8	$M(S) = (\textbf{N'} \pm \textbf{Z}_{.995} * \textbf{var(S)}^{½}) / 2$ $= (\textbf{595} \pm \textbf{2.576} * \textbf{4464.0}^{½}) / 2$ $= [\ \textbf{211.445}, \textbf{383.555}\ ]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M^{th} largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$CL(S) = [\ \textbf{0.0}, \textbf{0.202}\ ]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Arsenic, total (ug/L) at MW-32

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **17.1** / **4** = **4.275**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2] - sum[X]^2/N**) / (**N**-1))^{½} = ((**104.85 - 292.41/4**) / (**4**-1))^{½} = **3.253**	Compute sd of the last 4 measurements.
3	LCL = **$\overline{X}$ - tS/N**^{½} = **4.275 - 2.353** * **3.253/4**^{½} = **0.448**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = **$\overline{X}$ + tS/N**^{½} = **4.275** + **2.353** * **3.253/4**^{½} = **8.102**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **15** * (**15**-1) / 2 = **105**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **195.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **$Z_{.995}$** * **var(S)**^{½}) / 2 = (**105** ± **2.576** * **195.667**^{½}) / 2 = [**34.483**, **70.517**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M^{th} largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**0.0**, **0.0**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Barium, total (ug/L) at MW-32

Step	Equation	Description
1	$\overline{X} = \mathbf{sum[X]} / \mathbf{N}$ $= \mathbf{1551.0} / \mathbf{4}$ $= \mathbf{387.75}$	Compute the mean of the last 4 measurements.
2	$S = ((\mathbf{sum[X^2]} - \mathbf{sum[X]}^2/\mathbf{N}) / (\mathbf{N}-1))^{1/2}$ $= ((\mathbf{613453.0} - \mathbf{2.41}\times\mathbf{10^6}/\mathbf{4}) / (\mathbf{4}-1))^{1/2}$ $= \mathbf{63.384}$	Compute sd of the last 4 measurements.
3	$LCL = \overline{\mathbf{X}} - \mathbf{tS}/\mathbf{N}^{1/2}$ $= \mathbf{387.75} - \mathbf{2.353} * \mathbf{63.384}/\mathbf{4}^{1/2}$ $= \mathbf{313.192}$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$UCL = \overline{\mathbf{X}} + \mathbf{tS}/\mathbf{N}^{1/2}$ $= \mathbf{387.75} + \mathbf{2.353} * \mathbf{63.384}/\mathbf{4}^{1/2}$ $= \mathbf{462.308}$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = \mathbf{N} * (\mathbf{N}-1) / 2$ $= \mathbf{15} * (\mathbf{15}-1) / 2$ $= \mathbf{105}$	Number of sample pairs during trend detection period.
6	$S = \mathbf{22.109}$	Sen's estimator of trend.
7	$var(S) = \mathbf{407.333}$	Variance estimate for slope.
8	$M(S) = (\mathbf{N'} \pm \mathbf{Z}_{.995} * \mathbf{var(S)}^{1/2}) / 2$ $= (\mathbf{105} \pm \mathbf{2.576} * \mathbf{407.333}^{1/2}) / 2$ $= [\ \mathbf{26.505}, \mathbf{78.495}\ ]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M^{th} largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$CL(S) = [\ \mathbf{-5.427}, \mathbf{50.775}\ ]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Cobalt, total (ug/L) at MW-32

Step	Equation	Description
1	$\bar{X} = \mathbf{sum[X]} / \mathbf{N}$ $= \mathbf{2.6} / \mathbf{4}$ $= \mathbf{0.65}$	Compute the mean of the last 4 measurements.
2	$S = ((\mathbf{sum[X^2]} - \mathbf{sum[X]}^2/\mathbf{N}) / (\mathbf{N}-1))^{1/2}$ $= ((\mathbf{2.52} - \mathbf{6.76/4}) / (\mathbf{4}-1))^{1/2}$ $= \mathbf{0.526}$	Compute sd of the last 4 measurements.
3	$LCL = \mathbf{\bar{X}} - \mathbf{tS/N}^{1/2}$ $= \mathbf{0.65} - \mathbf{2.353} * \mathbf{0.526/4}^{1/2}$ $= \mathbf{0.031}$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$UCL = \mathbf{\bar{X}} + \mathbf{tS/N}^{1/2}$ $= \mathbf{0.65} + \mathbf{2.353} * \mathbf{0.526/4}^{1/2}$ $= \mathbf{1.269}$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = \mathbf{N} * (\mathbf{N}-1) / 2$ $= \mathbf{15} * (\mathbf{15}-1) / 2$ $= \mathbf{105}$	Number of sample pairs during trend detection period.
6	$S = \mathbf{0.0}$	Sen's estimator of trend.
7	$var(S) = \mathbf{388.0}$	Variance estimate for slope.
8	$M(S) = (\mathbf{N'} \pm \mathbf{Z}_{.995} * \mathbf{var(S)}^{1/2}) / 2$ $= (\mathbf{105} \pm \mathbf{2.576} * \mathbf{388.0}^{1/2}) / 2$ $= [\ \mathbf{27.129}, \mathbf{77.871}\ ]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M^{th} largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$CL(S) = [\ \mathbf{-0.227}, \mathbf{0.134}\ ]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Arsenic, total (ug/L) at MW-9

Step	Equation	Description
1	$\overline{X}$ = **sum[X] / N** = **17.7** / **4** = **4.425**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2] - sum[X]^2/N**) / (**N**-1))^{½} = ((**87.47 - 313.29/4**) / (**4**-1))^{½} = **1.746**	Compute sd of the last 4 measurements.
3	LCL = **$\overline{X}$ - tS/N**^{½} = **4.425 - 2.353 * 1.746/4**^{½} = **2.371**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = **$\overline{X}$ + tS/N**^{½} = **4.425 + 2.353 * 1.746/4**^{½} = **6.479**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **36** * (**36**-1) / 2 = **630**	Number of sample pairs during trend detection period.
6	S = **-0.178**	Sen's estimator of trend.
7	var(S) = **5264.0**	Variance estimate for slope.
8	M(S) = (**N' ± Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**630** ± **2.576** * **5264.0**^{½}) / 2 = [**221.551**, **408.449**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-0.584**, **0.055**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Barium, total (ug/L) at MW-9

Step	Equation	Description
1	$\bar{X}$ = **sum[X]** / **N** = **1682.0** / **4** = **420.5**	Compute the mean of the last 4 measurements.
2	$S = ((\mathbf{sum[X^2]} - \mathbf{sum[X]}^2/\mathbf{N}) / (\mathbf{N}-1))^{1/2}$ $= ((\mathbf{725378.0} - \mathbf{2.83} \times \mathbf{10^6}/\mathbf{4}) / (\mathbf{4}-1))^{1/2}$ = **77.668**	Compute sd of the last 4 measurements.
3	$LCL = \bar{\mathbf{X}} - \mathbf{tS/N}^{1/2}$ $= \mathbf{420.5} - \mathbf{2.353} * \mathbf{77.668/4}^{1/2}$ = **329.14**	Compute lower confidence limit for the mean of the last 4 measurements.
4	$UCL = \bar{\mathbf{X}} + \mathbf{tS/N}^{1/2}$ $= \mathbf{420.5} + \mathbf{2.353} * \mathbf{77.668/4}^{1/2}$ = **511.86**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **36** * (**36**-1) / 2 = **630**	Number of sample pairs during trend detection period.
6	S = **-3.522**	Sen's estimator of trend.
7	var(S) = **5387.0**	Variance estimate for slope.
8	$M(S) = (\mathbf{N'} \pm \mathbf{Z}_{.995} * \mathbf{var(S)}^{1/2}) / 2$ $= (\mathbf{630} \pm \mathbf{2.576} * \mathbf{5387.0}^{1/2}) / 2$ = [**220.466**, **409.534**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M^{th} largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-11.872**, **5.341**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Cobalt, total (ug/L) at MW-9

Step	Equation	Description
1	$\bar{X}$ = **sum[X]** / **N** = **6.1** / **4** = **1.525**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2] - sum[X]^2/N**) / (**N**-1))^{½} = ((**9.55** - **37.21/4**) / (**4**-1))^{½} = **0.287**	Compute sd of the last 4 measurements.
3	LCL = **$\bar{X}$ - tS/N**^{½} = **1.525** - **2.353** * **0.287/4**^{½} = **1.187**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = **$\bar{X}$ + tS/N**^{½} = **1.525** + **2.353** * **0.287/4**^{½} = **1.863**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **36** * (**36**-1) / 2 = **630**	Number of sample pairs during trend detection period.
6	S = **-0.461**	Sen's estimator of trend.
7	var(S) = **4686.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**630** ± **2.576** * **4686.333**^{½}) / 2 = [**226.828**, **403.172**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-0.754**, **0.0**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Attachment D

Summary Table of Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Bis(2-ethylhexyl) phthalate	MW-10	4/12/2017		6	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-10	4/11/2018		7	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-10	10/16/2018		34	6	ug/L
Carbon disulfide	MW-12	10/24/2014		2.42	.10	ug/L
Carbon disulfide	MW-14R	2/18/2011		2.25	1.00	ug/L
Carbon disulfide	MW-16	10/24/2014		2.97	.10	ug/L
Carbon disulfide	MW-17	10/24/2014		1.34	.10	ug/L
Carbon disulfide	MW-18	10/21/2014		1.17	1.00	ug/L
1,1-dichloroethane	MW-24	10/21/2015		1.0	1.0	ug/L
1,1-dichloroethane	MW-24	10/13/2020		1.1	1.0	ug/L
1,1-dichloroethane	MW-24	10/06/2021		1.2	1.0	ug/L
1,1-dichloroethane	MW-24	10/25/2022		1.7	1.0	ug/L
Benzene	MW-24	10/29/2014		.718	.500	ug/L
Benzene	MW-24	4/28/2015		1.080	.500	ug/L
Benzene	MW-24	10/21/2015		1.600	1.000	ug/L
Benzene	MW-24	10/11/2016		1.400	1.000	ug/L
Benzene	MW-24	4/11/2018		1.200	1.000	ug/L
Benzene	MW-24	10/13/2020		1.600	1.000	ug/L
Benzene	MW-24	10/06/2021		1.400	1.000	ug/L
Benzene	MW-24	10/25/2022		2.000	1.000	ug/L
Bis(2-ethylhexyl) phthalate	MW-24	4/12/2021		12	6	ug/L
Carbon disulfide	MW-24	10/29/2014		2.24	.10	ug/L
Chloroethane	MW-24	10/25/2022		1.1	1.0	ug/L
Vinyl chloride	MW-24	10/13/2020		1.4	1.0	ug/L
Vinyl chloride	MW-24	10/06/2021		1.4	1.0	ug/L
Vinyl chloride	MW-24	10/25/2022		2.2	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-25	4/12/2017		18	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-25	4/03/2023		15	6	ug/L
Carbon disulfide	MW-25	10/28/2014		1.7	.1	ug/L
Acetone	MW-26	10/16/2023		27.1	10.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-26	10/26/2017		12	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-26	4/17/2019		7	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-26	4/03/2023		18	6	ug/L
1,1-dichloroethane	MW-27	8/23/2012		2.65	1.00	ug/L
1,1-dichloroethane	MW-27	10/10/2012		9.18	1.00	ug/L
1,1-dichloroethane	MW-27	12/19/2012		7.02	1.00	ug/L
1,1-dichloroethane	MW-27	4/23/2013		2.38	1.00	ug/L
1,1-dichloroethane	MW-27	10/28/2013		1.83	1.00	ug/L
1,1-dichloroethane	MW-27	4/25/2014		2.25	1.00	ug/L
1,1-dichloroethane	MW-27	10/27/2014		1.90	1.00	ug/L
1,1-dichloroethane	MW-27	4/27/2015		9.70	1.00	ug/L
1,1-dichloroethane	MW-27	10/21/2015		1.50	1.00	ug/L
1,1-dichloroethane	MW-27	4/11/2016		5.80	1.00	ug/L
1,1-dichloroethane	MW-27	10/11/2016		5.90	1.00	ug/L
1,1-dichloroethane	MW-27	4/12/2017		3.20	1.00	ug/L
1,1-dichloroethane	MW-27	10/26/2017		2.90	1.00	ug/L
Benzene	MW-27	8/23/2012		1.060	.500	ug/L
Benzene	MW-27	10/10/2012		2.660	.500	ug/L
Benzene	MW-27	12/19/2012		1.950	.500	ug/L
Benzene	MW-27	4/23/2013		1.040	.500	ug/L
Benzene	MW-27	10/28/2013		.763	.500	ug/L
Benzene	MW-27	4/25/2014		1.280	.500	ug/L
Benzene	MW-27	10/27/2014		1.330	.500	ug/L
Benzene	MW-27	4/27/2015		2.920	.500	ug/L
Benzene	MW-27	4/11/2016		1.000	1.000	ug/L
Benzene	MW-27	10/11/2016		1.100	1.000	ug/L
Benzene	MW-27	10/26/2017		1.500	1.000	ug/L
Chloroethane	MW-27	4/27/2015		5.97	1.00	ug/L
Chloroethane	MW-27	4/11/2016		4.50	1.00	ug/L
Chloroethane	MW-27	10/11/2016		4.90	1.00	ug/L
Chloroethane	MW-27	4/12/2017		2.90	1.00	ug/L
Chloroethane	MW-27	10/26/2017		2.50	1.00	ug/L
Cis-1,2-dichloroethylene	MW-27	8/23/2012		1.32	1.00	ug/L
Cis-1,2-dichloroethylene	MW-27	10/10/2012		5.11	1.00	ug/L
Cis-1,2-dichloroethylene	MW-27	12/19/2012		3.53	1.00	ug/L
Cis-1,2-dichloroethylene	MW-27	10/28/2013		1.07	1.00	ug/L
Vinyl chloride	MW-27	10/10/2012		2.46	1.00	ug/L
Vinyl chloride	MW-27	12/19/2012		1.94	1.00	ug/L
Vinyl chloride	MW-27	4/27/2015		1.82	1.00	ug/L
Vinyl chloride	MW-27	4/11/2016		1.30	1.00	ug/L
Vinyl chloride	MW-27	10/11/2016		1.40	1.00	ug/L
Vinyl chloride	MW-27	4/12/2017		1.30	1.00	ug/L
1,1-dichloroethane	MW-28	10/24/2014		1.38	1.00	ug/L
1,1-dichloroethane	MW-28	4/27/2015		1.29	1.00	ug/L
1,1-dichloroethane	MW-28	10/11/2016		1.80	1.00	ug/L
Benzene	MW-28	8/23/2012		1.33	.50	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-28	10/11/2012		1.29	.50	ug/L
Benzene	MW-28	12/19/2012		1.18	.50	ug/L
Benzene	MW-28	4/23/2013		2.50	.50	ug/L
Benzene	MW-28	10/28/2013		1.06	.50	ug/L
Benzene	MW-28	4/28/2014		2.30	.50	ug/L
Benzene	MW-28	10/24/2014		5.64	.50	ug/L
Benzene	MW-28	4/27/2015		4.56	.50	ug/L
Benzene	MW-28	10/21/2015		2.50	1.00	ug/L
Benzene	MW-28	4/11/2016		7.20	1.00	ug/L
Benzene	MW-28	10/11/2016		12.00	1.00	ug/L
Benzene	MW-28	4/12/2017		7.50	1.00	ug/L
Benzene	MW-28	10/26/2017		9.80	1.00	ug/L
Bis(2-ethylhexyl) phthalate	MW-28	10/21/2015		8	8	ug/L
Carbon disulfide	MW-28	10/24/2014		1.18	.10	ug/L
Chloroethane	MW-28	4/28/2014		6.11	1.00	ug/L
Chloroethane	MW-28	10/24/2014		4.25	1.00	ug/L
Chloroethane	MW-28	10/21/2015		1.40	1.00	ug/L
Chloroethane	MW-28	10/11/2016		1.60	1.00	ug/L
Chloroethane	MW-28	4/12/2017		3.50	1.00	ug/L
Bis(2-ethylhexyl) phthalate	MW-33	10/25/2022		55	6	ug/L
1,1-dichloroethane	MW-5	10/10/2012		1.19	1.00	ug/L
1,1-dichloroethane	MW-5	4/23/2013		1.64	1.00	ug/L
1,1-dichloroethane	MW-5	10/29/2013		1.16	1.00	ug/L
1,1-dichloroethane	MW-5	10/17/2014		1.41	1.00	ug/L
1,1-dichloroethane	MW-5	4/29/2015		1.22	1.00	ug/L
1,1-dichloroethane	MW-5	10/21/2015		1.30	1.00	ug/L
1,1-dichloroethane	MW-5	4/11/2018		1.00	1.00	ug/L
1,1-dichloroethane	MW-5	10/07/2024		2.20	1.00	ug/L
1,4-dichlorobenzene	MW-5	4/11/2018		1.1	1.0	ug/L
1,4-dichlorobenzene	MW-5	10/06/2021		1.0	1.0	ug/L
1,4-dichlorobenzene	MW-5	4/14/2022		1.0	1.0	ug/L
2-butanone	MW-5	4/23/2013		27.0	1.0	ug/L
2-butanone	MW-5	4/23/2014		43.6	1.0	ug/L
2-butanone	MW-5	4/29/2015		16.8	1.0	ug/L
2-butanone	MW-5	4/11/2018		28.0	5.0	ug/L
2-butanone	MW-5	4/14/2022		28.4	10.0	ug/L
Acetone	MW-5	4/18/2012		13.6	1.0	ug/L
Acetone	MW-5	4/23/2013		1240.0	1.0	ug/L
Acetone	MW-5	4/23/2014		1530.0	1.0	ug/L
Acetone	MW-5	4/29/2015		103.0	1.0	ug/L
Acetone	MW-5	4/11/2018		1690.0	100.0	ug/L
Acetone	MW-5	4/12/2021		14.8	10.0	ug/L
Acetone	MW-5	4/14/2022		751.0	100.0	ug/L
Benzene	MW-5	4/12/2011		1.42	1.00	ug/L
Benzene	MW-5	5/06/2011		3.47	1.00	ug/L
Benzene	MW-5	6/21/2011		.95	.10	ug/L
Benzene	MW-5	10/10/2011		3.06	1.00	ug/L
Benzene	MW-5	4/18/2012		2.88	1.00	ug/L
Benzene	MW-5	10/10/2012		2.68	1.00	ug/L
Benzene	MW-5	4/23/2013		7.26	1.00	ug/L
Benzene	MW-5	10/29/2013		4.91	1.00	ug/L
Benzene	MW-5	4/23/2014		6.76	1.00	ug/L
Benzene	MW-5	10/17/2014		6.31	1.00	ug/L
Benzene	MW-5	4/29/2015		7.19	1.00	ug/L
Benzene	MW-5	10/21/2015		6.70	1.00	ug/L
Benzene	MW-5	4/11/2016		4.60	1.00	ug/L
Benzene	MW-5	10/11/2016		5.70	1.00	ug/L
Benzene	MW-5	4/12/2017		4.70	1.00	ug/L
Benzene	MW-5	10/26/2017		6.20	1.00	ug/L
Benzene	MW-5	4/11/2018		8.70	1.00	ug/L
Benzene	MW-5	10/16/2018		5.90	1.00	ug/L
Benzene	MW-5	4/17/2019		6.60	1.00	ug/L
Benzene	MW-5	10/15/2019		5.60	1.00	ug/L
Benzene	MW-5	4/06/2020		5.60	1.00	ug/L
Benzene	MW-5	10/14/2020		6.30	1.00	ug/L
Benzene	MW-5	4/12/2021		5.70	1.00	ug/L
Benzene	MW-5	10/06/2021		4.50	1.00	ug/L
Benzene	MW-5	4/14/2022		6.00	1.00	ug/L
Benzene	MW-5	10/25/2022		5.40	1.00	ug/L
Benzene	MW-5	4/03/2023		6.50	1.00	ug/L
Benzene	MW-5	10/16/2023		4.50	1.00	ug/L
Benzene	MW-5	4/22/2024		3.70	1.00	ug/L
Benzene	MW-5	10/07/2024		5.20	1.00	ug/L
Bis(2-ethylhexyl) phthalate	MW-5	10/21/2015		8	8	ug/L
Carbon disulfide	MW-5	10/17/2014		1.04	1.00	ug/L
Carbon disulfide	MW-5	4/14/2022		2.40	1.00	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Chlorobenzene	MW-5	4/23/2013		1.49	1.00	ug/L
Chlorobenzene	MW-5	4/23/2014		1.38	1.00	ug/L
Chlorobenzene	MW-5	10/17/2014		1.22	1.00	ug/L
Chlorobenzene	MW-5	4/29/2015		1.44	1.00	ug/L
Chlorobenzene	MW-5	10/26/2017		1.30	1.00	ug/L
Chlorobenzene	MW-5	4/11/2018		1.80	1.00	ug/L
Chlorobenzene	MW-5	10/15/2019		1.00	1.00	ug/L
Chlorobenzene	MW-5	10/14/2020		1.00	1.00	ug/L
Chlorobenzene	MW-5	10/06/2021		1.10	1.00	ug/L
Chlorobenzene	MW-5	4/14/2022		1.50	1.00	ug/L
Chlorobenzene	MW-5	10/25/2022		1.10	1.00	ug/L
Chlorobenzene	MW-5	4/03/2023		1.10	1.00	ug/L
Chlorobenzene	MW-5	10/16/2023		1.00	1.00	ug/L
Chlorobenzene	MW-5	10/07/2024		1.00	1.00	ug/L
Chloroethane	MW-5	4/12/2011		5.40	1.00	ug/L
Chloroethane	MW-5	5/06/2011		5.72	1.00	ug/L
Chloroethane	MW-5	10/10/2011		4.39	1.00	ug/L
Chloroethane	MW-5	4/18/2012		5.42	1.00	ug/L
Chloroethane	MW-5	10/10/2012		5.48	1.00	ug/L
Chloroethane	MW-5	4/23/2013		7.72	1.00	ug/L
Chloroethane	MW-5	10/29/2013		6.04	1.00	ug/L
Chloroethane	MW-5	4/23/2014		10.10	1.00	ug/L
Chloroethane	MW-5	10/17/2014		6.05	1.00	ug/L
Chloroethane	MW-5	4/29/2015		8.30	1.00	ug/L
Chloroethane	MW-5	10/21/2015		6.80	1.00	ug/L
Chloroethane	MW-5	4/11/2016		7.20	1.00	ug/L
Chloroethane	MW-5	10/11/2016		7.20	1.00	ug/L
Chloroethane	MW-5	4/12/2017		6.00	1.00	ug/L
Chloroethane	MW-5	10/26/2017		5.00	1.00	ug/L
Chloroethane	MW-5	4/11/2018		6.30	1.00	ug/L
Chloroethane	MW-5	10/16/2018		2.80	1.00	ug/L
Chloroethane	MW-5	4/17/2019		5.50	1.00	ug/L
Chloroethane	MW-5	10/15/2019		3.50	1.00	ug/L
Chloroethane	MW-5	4/06/2020		4.90	1.00	ug/L
Chloroethane	MW-5	10/14/2020		4.20	1.00	ug/L
Chloroethane	MW-5	4/12/2021		4.20	1.00	ug/L
Chloroethane	MW-5	10/06/2021		3.20	1.00	ug/L
Chloroethane	MW-5	4/14/2022		3.20	1.00	ug/L
Chloroethane	MW-5	10/25/2022		3.80	1.00	ug/L
Chloroethane	MW-5	4/03/2023		5.60	1.00	ug/L
Chloroethane	MW-5	10/16/2023		4.00	1.00	ug/L
Chloroethane	MW-5	4/22/2024		4.10	1.00	ug/L
Chloroethane	MW-5	10/07/2024		6.10	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/12/2011		1.82	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	5/06/2011		2.96	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	6/21/2011		1.30	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/10/2011		1.60	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/18/2012		2.65	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/10/2012		1.76	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/23/2013		2.07	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/29/2013		1.75	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/23/2014		2.16	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/17/2014		2.06	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/29/2015		2.02	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/21/2015		1.90	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/11/2016		1.60	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/11/2016		1.60	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/12/2017		1.60	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/26/2017		1.50	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/11/2018		2.40	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/17/2019		1.30	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/14/2020		1.20	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/06/2021		1.60	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/14/2022		1.50	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/25/2022		1.80	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/03/2023		1.80	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/16/2023		1.60	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	4/22/2024		1.10	1.00	ug/L
Cis-1,2-dichloroethylene	MW-5	10/07/2024		1.10	1.00	ug/L
Ethylbenzene	MW-5	4/23/2013		15.20	1.00	ug/L
Ethylbenzene	MW-5	4/23/2014		13.30	1.00	ug/L
Ethylbenzene	MW-5	10/17/2014		2.31	1.00	ug/L
Ethylbenzene	MW-5	4/29/2015		15.40	1.00	ug/L
Ethylbenzene	MW-5	10/26/2017		1.20	1.00	ug/L
Ethylbenzene	MW-5	4/11/2018		23.00	1.00	ug/L
Ethylbenzene	MW-5	4/17/2019		2.90	1.00	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Ethylbenzene	MW-5	4/12/2021		5.10	1.00	ug/L
Ethylbenzene	MW-5	4/14/2022		11.90	1.00	ug/L
Ethylbenzene	MW-5	10/25/2022		2.70	1.00	ug/L
Methane	MW-5	7/23/2019		5060	704	ug/L
Methane	MW-5	10/07/2024		1520	25	ug/L
Toluene	MW-5	4/23/2013		1.9	1.0	ug/L
Toluene	MW-5	10/25/2022		6.5	1.0	ug/L
Toluene	MW-5	10/07/2024		2.3	1.0	ug/L
Vinyl chloride	MW-5	4/12/2011		2.74	1.00	ug/L
Vinyl chloride	MW-5	5/06/2011		1.90	1.00	ug/L
Vinyl chloride	MW-5	10/10/2011		1.19	1.00	ug/L
Vinyl chloride	MW-5	4/18/2012		1.60	1.00	ug/L
Vinyl chloride	MW-5	10/10/2012		1.41	1.00	ug/L
Vinyl chloride	MW-5	4/12/2017		1.10	1.00	ug/L
Vinyl chloride	MW-5	4/03/2023		1.20	1.00	ug/L
Xylenes, total	MW-5	4/18/2012		.98	.10	ug/L
Xylenes, total	MW-5	4/23/2013		19.30	1.00	ug/L
Xylenes, total	MW-5	4/23/2014		11.10	1.00	ug/L
Xylenes, total	MW-5	4/29/2015		10.40	1.00	ug/L
Xylenes, total	MW-5	4/11/2018		23.50	2.00	ug/L
Xylenes, total	MW-5	4/12/2021		2.80	2.00	ug/L
Xylenes, total	MW-5	4/14/2022		6.70	2.00	ug/L
1,4-dichlorobenzene	MW-6	4/18/2019		2.6	1.0	ug/L
Tetrachloroethylene	MW-6	10/31/2013		3.76	1.00	ug/L
Carbon disulfide	MW-7	10/17/2007		8.65	.10	ug/L
Carbon disulfide	MW-7	10/24/2014		1.54	.10	ug/L
Carbon disulfide	MW-8	4/16/2013		1.58	1.00	ug/L
Carbon disulfide	MW-8	10/27/2014		1.03	1.00	ug/L
1,1-dichloroethane	MW-9	10/11/2012		3.32	1.00	ug/L
1,1-dichloroethane	MW-9	10/29/2013		2.21	1.00	ug/L
Acetone	MW-9	10/21/2008		16.3	10.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-9	4/11/2018		6	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-9	10/16/2019		12	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-9	4/12/2021		6	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-9	10/25/2022		6	6	ug/L
Carbon disulfide	MW-9	10/11/2012		.43	.10	ug/L
Cis-1,2-dichloroethylene	MW-9	10/11/2012		1.23	1.00	ug/L
Hexachlorobenzene	MW-9	4/11/2018		.12	.05	ug/L
Vinyl chloride	MW-9	10/11/2012		1.1	1.0	ug/L

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

Attachment E

Assessment Statistics for Detected VOCs

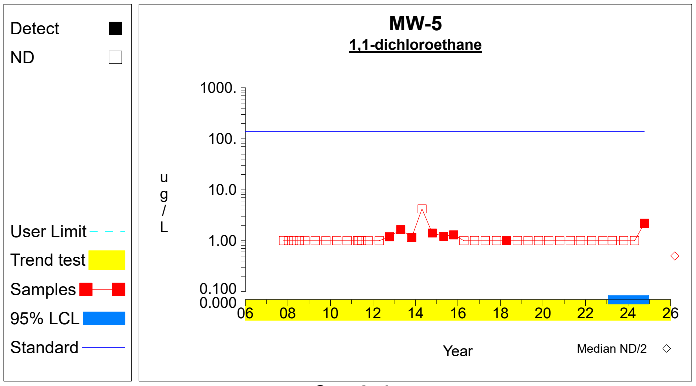
Table 1

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

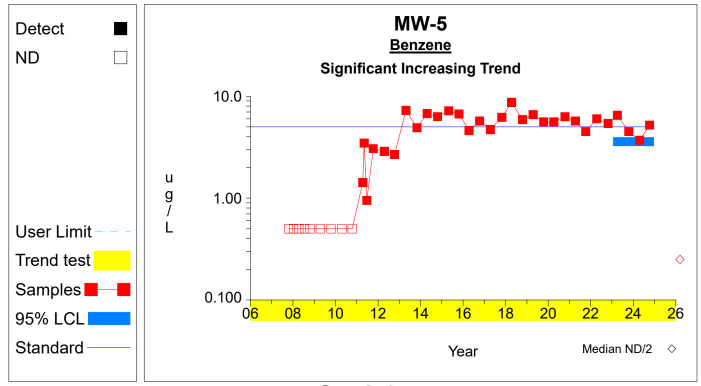
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
1,1-dichloroethane	ug/L	MW-5	4	0.925	0.850	1.176	0.000	1.925	140.000	
Benzene	ug/L	MW-5	4	4.975	1.187	1.176	3.579	6.371	5.000	inc
Chlorobenzene	ug/L	MW-5	4	0.900	0.271	1.176	0.581	1.219	100.000	
Chloroethane	ug/L	MW-5	4	4.950	1.060	1.176	3.703	6.197	2800.000	
Cis-1,2-dichloroethylene	ug/L	MW-5	4	1.400	0.356	1.176	0.981	1.819	70.000	
Ethylbenzene	ug/L	MW-5	4	0.500	0.000	1.176	0.500	0.500	700.000	
Toluene	ug/L	MW-5	4	0.950	0.900	1.176	0.000	2.009	1000.000	
Vinyl chloride	ug/L	MW-5	4	0.675	0.350	1.176	0.263	1.087	2.000	

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

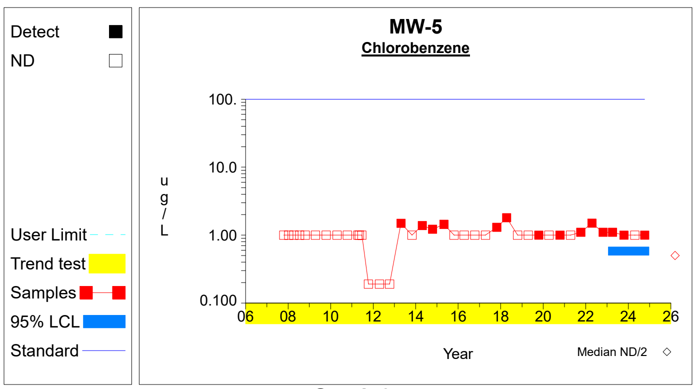
Confidence Limits (Assessment)



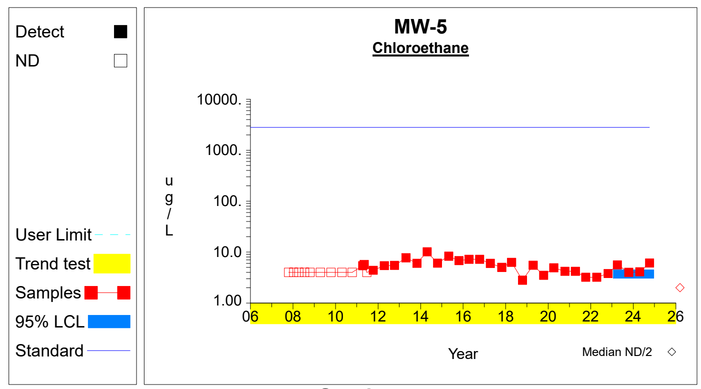
Graph 1



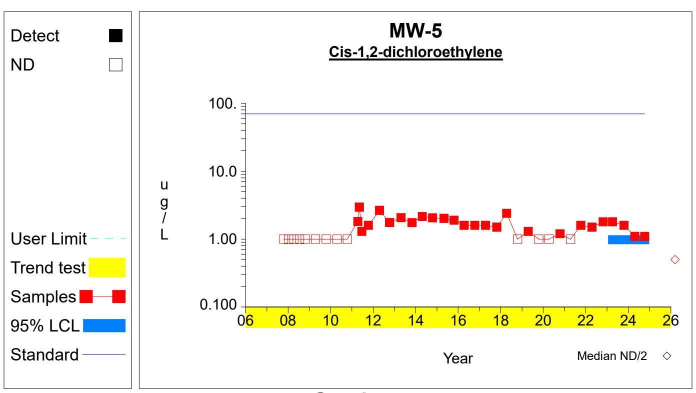
Graph 2



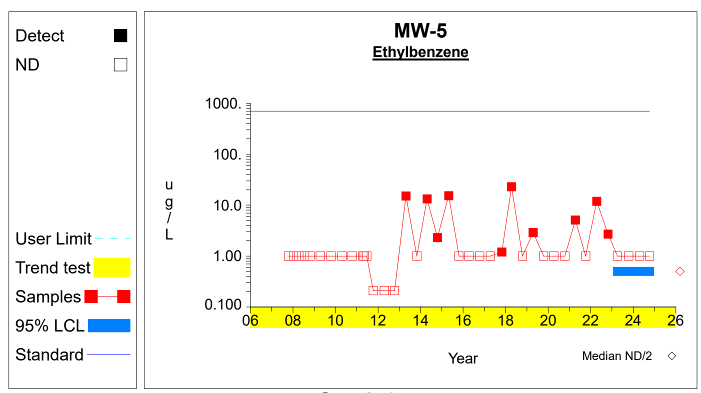
Graph 3



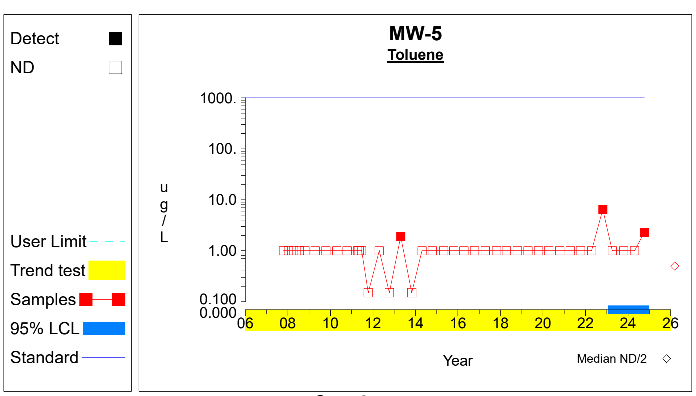
Graph 4



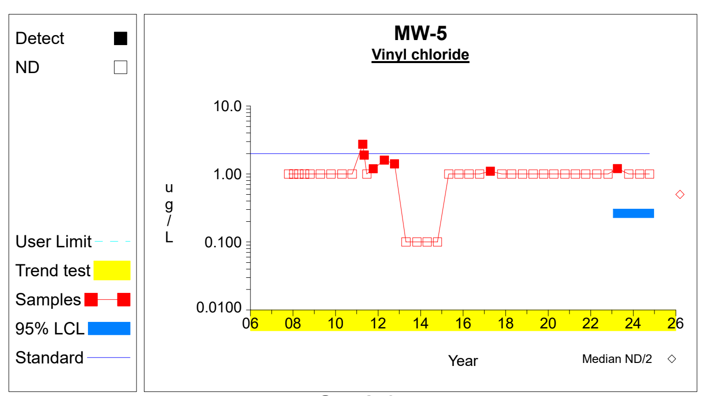
Graph 5



Graph 6



Graph 7



Graph 8

Worksheet 6 - Assessment Monitoring
1,1-dichloroethane (ug/L) at MW-5

Step	Equation	Description
1	$\bar{X} = \mathbf{sum[X]} / \mathbf{N}$ $= \mathbf{3.7} / \mathbf{4}$ $= \mathbf{0.925}$	Compute the mean of the last 4 measurements.
2	$S = ((\mathbf{sum[X^2]} - \mathbf{sum[X]}^2/\mathbf{N}) / (\mathbf{N}-1))^{1/2}$ $= ((\mathbf{5.59} - \mathbf{13.69/4}) / (\mathbf{4}-1))^{1/2}$ $= \mathbf{0.85}$	Compute sd of the last 4 measurements.
3	$LCL = \bar{\mathbf{X}} - \mathbf{tS/N}^{1/2}$ $= \mathbf{0.925} - \mathbf{2.353} * \mathbf{0.85/4}^{1/2}$ $= \mathbf{0.0}$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$UCL = \bar{\mathbf{X}} + \mathbf{tS/N}^{1/2}$ $= \mathbf{0.925} + \mathbf{2.353} * \mathbf{0.85/4}^{1/2}$ $= \mathbf{1.925}$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = \mathbf{N} * (\mathbf{N}-1) / 2$ $= \mathbf{39} * (\mathbf{39}-1) / 2$ $= \mathbf{741}$	Number of sample pairs during trend detection period.
6	$S = \mathbf{0.0}$	Sen's estimator of trend.
7	$var(S) = \mathbf{3372.0}$	Variance estimate for slope.
8	$M(S) = (\mathbf{N'} \pm \mathbf{Z}_{.995} * \mathbf{var(S)}^{1/2}) / 2$ $= (\mathbf{741} \pm \mathbf{2.576} * \mathbf{3372.0}^{1/2}) / 2$ $= [\ \mathbf{295.707}, \mathbf{445.293}\ ]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M^{th} largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$CL(S) = [\ \mathbf{0.0}, \mathbf{0.0}\ ]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Benzene (ug/L) at MW-5

Step	Equation	Description
1	$\bar{X} = \mathbf{sum[X]} / \mathbf{N}$ $= \mathbf{19.9} / \mathbf{4}$ $= \mathbf{4.975}$	Compute the mean of the last 4 measurements.
2	$S = ((\mathbf{sum[X^2]} - \mathbf{sum[X]}^2/\mathbf{N}) / (\mathbf{N}-1))^{½}$ $= ((\mathbf{103.23} - \mathbf{396.01/4}) / (\mathbf{4}-1))^{½}$ $= \mathbf{1.187}$	Compute sd of the last 4 measurements.
3	$LCL = \bar{\mathbf{X}} - \mathbf{tS/N}^{½}$ $= \mathbf{4.975} - \mathbf{2.353} * \mathbf{1.187/4}^{½}$ $= \mathbf{3.579}$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$UCL = \bar{\mathbf{X}} + \mathbf{tS/N}^{½}$ $= \mathbf{4.975} + \mathbf{2.353} * \mathbf{1.187/4}^{½}$ $= \mathbf{6.371}$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = \mathbf{N} * (\mathbf{N}-1) / 2$ $= \mathbf{39} * (\mathbf{39}-1) / 2$ $= \mathbf{741}$	Number of sample pairs during trend detection period.
6	$S = \mathbf{0.348}$	Sen's estimator of trend.
7	$var(S) = \mathbf{6738.667}$	Variance estimate for slope.
8	$M(S) = (\mathbf{N'} \pm \mathbf{Z}_{.995} * \mathbf{var(S)}^{½}) / 2$ $= (\mathbf{741} \pm \mathbf{2.576} * \mathbf{6738.667}^{½}) / 2$ $= [\ \mathbf{264.769}, \mathbf{476.231}\ ]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M^{th} largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$CL(S) = [\ \mathbf{0.139}, \mathbf{0.513}\ ]$	Two-sided confidence interval for slope.
10	$LCL(S) > 0$	**Significant increasing trend.**

Worksheet 6 - Assessment Monitoring
Chlorobenzene (ug/L) at MW-5

Step	Equation	Description
1	$\bar{X}$ = **sum[X]** / **N** = **3.6** / **4** = **0.9**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))$^{1/2}$ = ((**3.46** - **12.96**/**4**) / (**4**-1))$^{1/2}$ = **0.271**	Compute sd of the last 4 measurements.
3	LCL = **$\bar{X}$** - **tS**/**N**$^{1/2}$ = **0.9** - **2.353** * **0.271**/**4**$^{1/2}$ = **0.581**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = **$\bar{X}$** + **tS**/**N**$^{1/2}$ = **0.9** + **2.353** * **0.271**/**4**$^{1/2}$ = **1.219**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **39** * (**39**-1) / 2 = **741**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **4988.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{1/2}$) / 2 = (**741** ± **2.576** * **4988.0**$^{1/2}$) / 2 = [**279.534**, **461.466**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**0.0**, **0.04**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Chloroethane (ug/L) at MW-5

Step	Equation	Description
1	$\bar{X}$ = **sum[X]** / **N** = **19.8** / **4** = **4.95**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**101.38** - **392.04**/**4**) / (**4**-1))^{½} = **1.06**	Compute sd of the last 4 measurements.
3	LCL = **$\bar{X}$** - **tS**/**N**^{½} = **4.95** - **2.353** * **1.06**/**4**^{½} = **3.703**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = **$\bar{X}$** + **tS**/**N**^{½} = **4.95** + **2.353** * **1.06**/**4**^{½} = **6.197**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **39** * (**39**-1) / 2 = **741**	Number of sample pairs during trend detection period.
6	S = **0.115**	Sen's estimator of trend.
7	var(S) = **6705.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**741** ± **2.576** * **6705.667**^{½}) / 2 = [**265.028**, **475.972**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**0.0**, **0.267**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Cis-1,2-dichloroethylene (ug/L) at MW-5

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **5.6** / **4** = **1.4**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]^2**/**N**) / (**N**-1))$^{1/2}$ = ((**8.22** - **31.36**/**4**) / (**4**-1))$^{1/2}$ = **0.356**	Compute sd of the last 4 measurements.
3	LCL = $\overline{X}$ - **tS**/**N**$^{1/2}$ = **1.4** - **2.353** * **0.356**/**4**$^{1/2}$ = **0.981**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{X}$ + **tS**/**N**$^{1/2}$ = **1.4** + **2.353** * **0.356**/**4**$^{1/2}$ = **1.819**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **39** * (**39**-1) / 2 = **741**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **6532.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{1/2}$) / 2 = (**741** ± **2.576** * **6532.667**$^{1/2}$) / 2 = [**266.398**, **474.602**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-0.027**, **0.082**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Ethylbenzene (ug/L) at MW-5

Step	Equation	Description
1	$\bar{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]^2**/**N**) / (**N**-1))$^{1/2}$ = ((**1.0** - **4.0**/**4**) / (**4**-1))$^{1/2}$ = **0.0**	Compute sd of the last 4 measurements.
3	LCL = **$\bar{X}$** - **tS**/**N**$^{1/2}$ = **0.5** - **2.353** * **0.0**/**4**$^{1/2}$ = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = **$\bar{X}$** + **tS**/**N**$^{1/2}$ = **0.5** + **2.353** * **0.0**/**4**$^{1/2}$ = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **39** * (**39**-1) / 2 = **741**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **3991.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{1/2}$) / 2 = (**741** ± **2.576** * **3991.667**$^{1/2}$) / 2 = [**289.125**, **451.875**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**0.0**, **0.0**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Toluene (ug/L) at MW-5

Step	Equation	Description
1	$\bar{X}$ = **sum[X]** / **N** = **3.8** / **4** = **0.95**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**6.04** - **14.44/4**) / (**4**-1))^{½} = **0.9**	Compute sd of the last 4 measurements.
3	LCL = **$\bar{X}$ - tS/N**^{½} = **0.95** - **2.353** * **0.9/4**^{½} = **0.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = **$\bar{X}$ + tS/N**^{½} = **0.95** + **2.353** * **0.9/4**^{½} = **2.009**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **39** * (**39**-1) / 2 = **741**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **1443.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**741** ± **2.576** * **1443.667**^{½}) / 2 = [**321.562**, **419.438**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**0.0**, **0.0**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Vinyl chloride (ug/L) at MW-5

Step	Equation	Description
1	$\bar{X} = \mathbf{sum[X]} / \mathbf{N}$ $= \mathbf{2.7} / \mathbf{4}$ $= \mathbf{0.675}$	Compute the mean of the last 4 measurements.
2	$S = ((\mathbf{sum[X^2]} - \mathbf{sum[X]}^2/\mathbf{N}) / (\mathbf{N}-1))^{1/2}$ $= ((\mathbf{2.19} - \mathbf{7.29/4}) / (\mathbf{4}-1))^{1/2}$ $= \mathbf{0.35}$	Compute sd of the last 4 measurements.
3	$LCL = \bar{\mathbf{X}} - \mathbf{tS/N}^{1/2}$ $= \mathbf{0.675} - \mathbf{2.353} * \mathbf{0.35/4}^{1/2}$ $= \mathbf{0.263}$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$UCL = \bar{\mathbf{X}} + \mathbf{tS/N}^{1/2}$ $= \mathbf{0.675} + \mathbf{2.353} * \mathbf{0.35/4}^{1/2}$ $= \mathbf{1.087}$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = \mathbf{N} * (\mathbf{N}-1) / 2$ $= \mathbf{39} * (\mathbf{39}-1) / 2$ $= \mathbf{741}$	Number of sample pairs during trend detection period.
6	$S = \mathbf{0.0}$	Sen's estimator of trend.
7	$var(S) = \mathbf{3031.0}$	Variance estimate for slope.
8	$M(S) = (\mathbf{N'} \pm \mathbf{Z}_{.995} * \mathbf{var(S)}^{1/2}) / 2$ $= (\mathbf{741} \pm \mathbf{2.576} * \mathbf{3031.0}^{1/2}) / 2$ $= [\ \mathbf{299.59}, \mathbf{441.41}\ ]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M^{th} largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$CL(S) = [\ \mathbf{0.0}, \mathbf{0.0}\ ]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Attachment F

Assessment Statistics for Detected Trace Metals

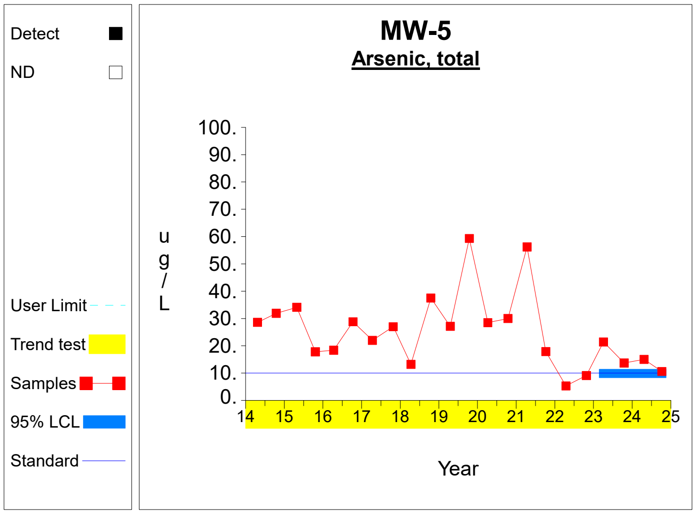
Table 1

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

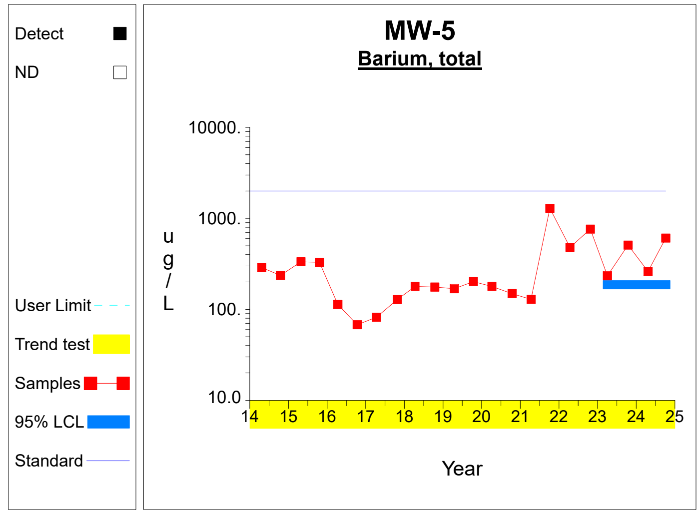
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Arsenic, total	ug/L	MW-5	4	15.175	4.542	1.176	9.832	20.518	10.000	
Barium, total	ug/L	MW-5	4	403.000	184.378	1.176	186.118	619.882	2000.000	
Cobalt, total	ug/L	MW-5	4	0.875	0.377	1.176	0.431	1.319	2.100	
Zinc, total	ug/L	MW-5	4	10.000	0.000	1.176	10.000	10.000	2000.000	
Arsenic, total	ug/L	MW-7	4	2.000	0.000	1.176	2.000	2.000	10.000	
Barium, total	ug/L	MW-7	4	43.025	11.215	1.176	29.833	56.217	2000.000	dec
Cobalt, total	ug/L	MW-7	4	0.350	0.300	1.176	0.000	0.703	2.100	
Zinc, total	ug/L	MW-7	4	21.750	14.425	1.176	4.782	38.718	2000.000	

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

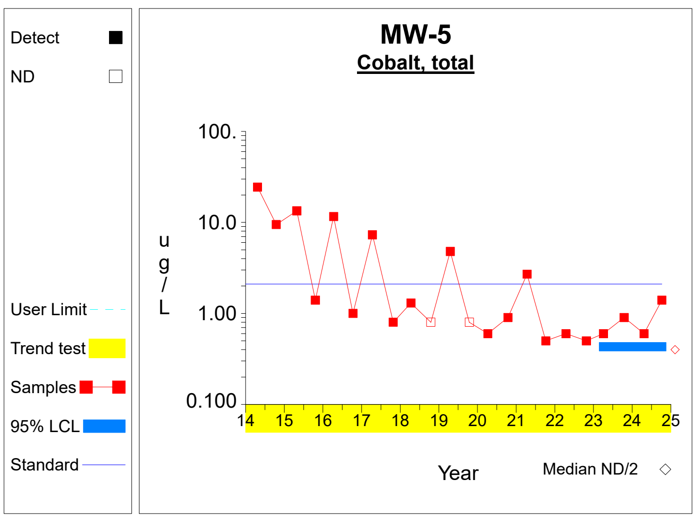
Confidence Limits (Assessment)



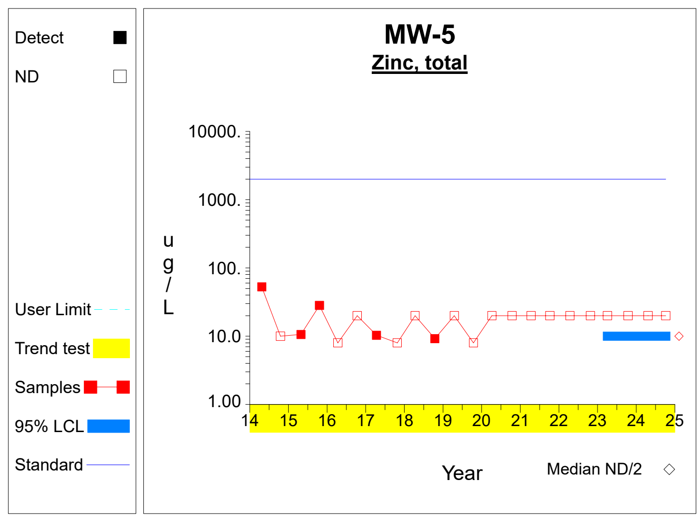
Graph 1



Graph 2

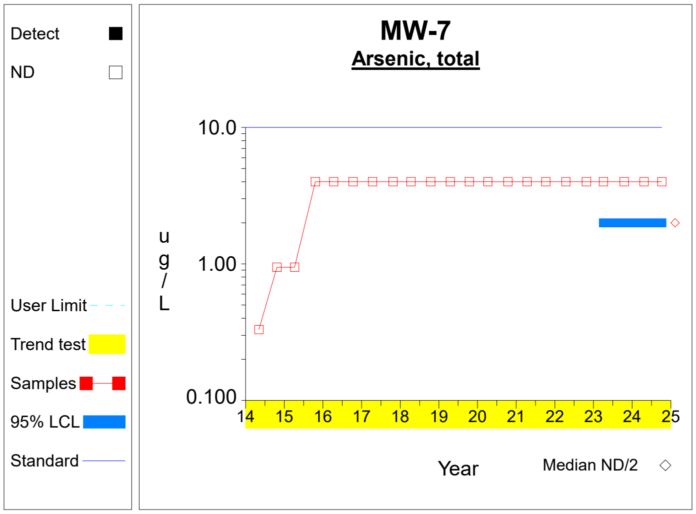


Graph 3

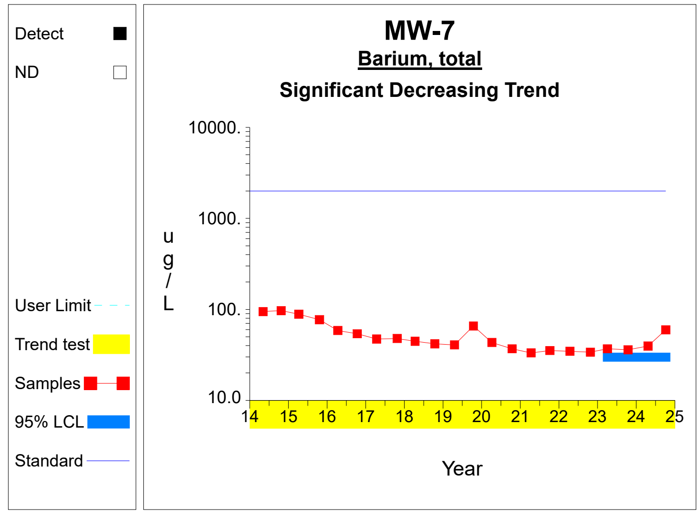


Graph 4

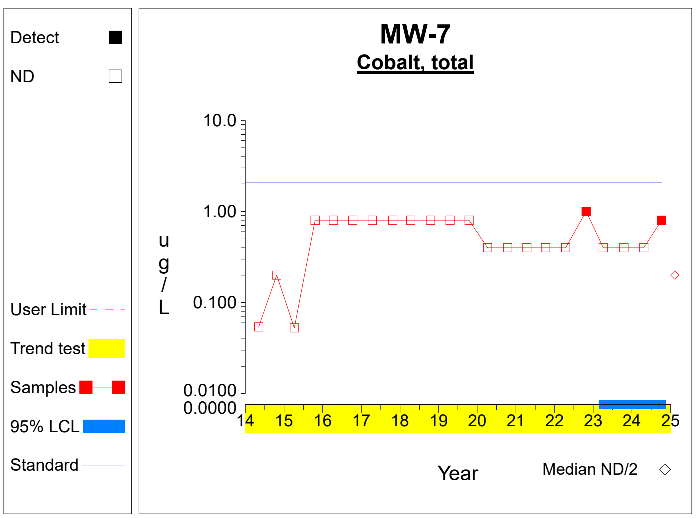
Confidence Limits (Assessment)



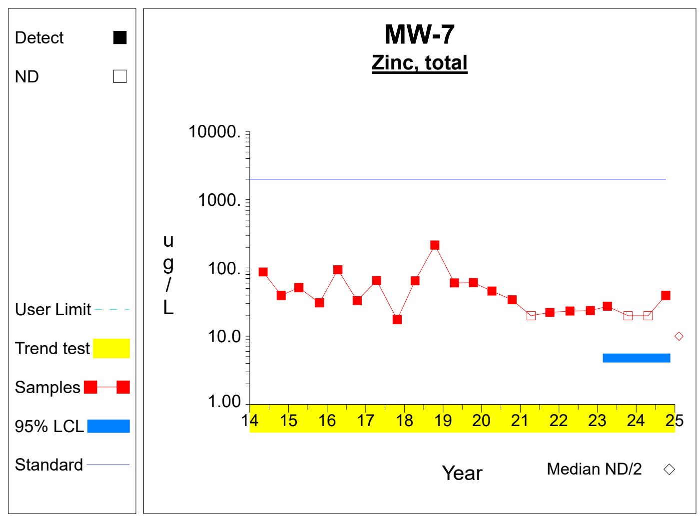
Graph 5



Graph 6



Graph 7



Graph 8

Worksheet 6 - Assessment Monitoring
Arsenic, total (ug/L) at MW-5

Step	Equation	Description
1	$\bar{X}$ = **sum[X]** / **N** = **60.7** / **4** = **15.175**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2] - sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**983.01** - **3684.49/4**) / (**4**-1))^{½} = **4.542**	Compute sd of the last 4 measurements.
3	LCL = $\bar{X}$ - **tS**/**N**^{½} = **15.175** - **2.353** * **4.542**/**4**^{½} = **9.832**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\bar{X}$ + **tS**/**N**^{½} = **15.175** + **2.353** * **4.542**/**4**^{½} = **20.518**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **22** * (**22**-1) / 2 = **231**	Number of sample pairs during trend detection period.
6	S = **-1.439**	Sen's estimator of trend.
7	var(S) = **1257.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**231** ± **2.576** * **1257.667**^{½}) / 2 = [**69.823**, **161.177**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-3.338**, **1.056**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Barium, total (ug/L) at MW-5

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **1612.0** / **4** = **403.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2] - sum[X]^2**/**N**) / (**N**-1))^{½} = ((**751622.0** - **2.60**x**10^6**/**4**) / (**4**-1))^{½} = **184.378**	Compute sd of the last 4 measurements.
3	LCL = **$\overline{X}$** - **tS**/**N**^{½} = **403.0** - **2.353** * **184.378**/**4**^{½} = **186.118**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = **$\overline{X}$** + **tS**/**N**^{½} = **403.0** + **2.353** * **184.378**/**4**^{½} = **619.882**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **22** * (**22**-1) / 2 = **231**	Number of sample pairs during trend detection period.
6	S = **20.852**	Sen's estimator of trend.
7	var(S) = **1256.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**231** ± **2.576** * **1256.667**^{½}) / 2 = [**69.841**, **161.159**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-13.412**, **61.37**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Cobalt, total (ug/L) at MW-5

Step	Equation	Description
1	$\overline{X} = \mathbf{sum[X]} / \mathbf{N}$ $= \mathbf{3.5} / \mathbf{4}$ $= \mathbf{0.875}$	Compute the mean of the last 4 measurements.
2	$S = ((\mathbf{sum[X^2]} - \mathbf{sum[X]}^2/\mathbf{N}) / (\mathbf{N}-1))^{½}$ $= ((\mathbf{3.49} - \mathbf{12.25/4}) / (\mathbf{4}-1))^{½}$ $= \mathbf{0.377}$	Compute sd of the last 4 measurements.
3	$LCL = \overline{\mathbf{X}} - \mathbf{tS/N}^{½}$ $= \mathbf{0.875 - 2.353} * \mathbf{0.377/4}^{½}$ $= \mathbf{0.431}$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$UCL = \overline{\mathbf{X}} + \mathbf{tS/N}^{½}$ $= \mathbf{0.875 + 2.353} * \mathbf{0.377/4}^{½}$ $= \mathbf{1.319}$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = \mathbf{N} * (\mathbf{N}-1) / 2$ $= \mathbf{22} * (\mathbf{22}-1) / 2$ $= \mathbf{231}$	Number of sample pairs during trend detection period.
6	$S = \mathbf{-0.335}$	Sen's estimator of trend.
7	$var(S) = \mathbf{1245.0}$	Variance estimate for slope.
8	$M(S) = (\mathbf{N'} \pm \mathbf{Z}_{.995} * \mathbf{var(S)}^{½}) / 2$ $= (\mathbf{231} \pm \mathbf{2.576} * \mathbf{1245.0}^{½}) / 2$ $= [\ \mathbf{70.053}, \mathbf{160.947}\ ]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M^{th} largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$CL(S) = [\ \mathbf{-1.612}, \mathbf{0.0}\ ]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Zinc, total (ug/L) at MW-5

Step	Equation	Description
1	$\bar{X}$ = **sum[X]** / **N** = **40.0** / **4** = **10.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2] - sum[X]^2/N**) / (**N**-1))^{½} = ((**400.0** - **1600.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = **$\bar{X}$** - **tS/N**^{½} = **10.0** - **2.353** * **0.0/4**^{½} = **10.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = **$\bar{X}$** + **tS/N**^{½} = **10.0** + **2.353** * **0.0/4**^{½} = **10.0**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **22** * (**22**-1) / 2 = **231**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **668.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**231** ± **2.576** * **668.333**^{½}) / 2 = [**82.202**, **148.798**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**0.0**, **0.0**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Arsenic, total (ug/L) at MW-7

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **8.0** / **4** = **2.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2] - sum[X]^2/N**) / (**N**-1))$^{1/2}$ = ((**16.0** - **64.0/4**) / (**4**-1))$^{1/2}$ = **0.0**	Compute sd of the last 4 measurements.
3	LCL = **$\overline{X}$ - tS/N$^{1/2}$** = **2.0** - **2.353** * **0.0/4$^{1/2}$** = **2.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = **$\overline{X}$ + tS/N$^{1/2}$** = **2.0** + **2.353** * **0.0/4$^{1/2}$** = **2.0**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **22** * (**22**-1) / 2 = **231**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **0.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z$_{.995}$** * **var(S)$^{1/2}$**) / 2 = (**231** ± **2.576** * **0.0$^{1/2}$**) / 2 = [**115.5**, **115.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**0.0**, **0.0**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Barium, total (ug/L) at MW-7

Step	Equation	Description
1	$\bar{X} = \mathbf{sum[X]} / \mathbf{N}$ $= \mathbf{172.1} / \mathbf{4}$ $= \mathbf{43.025}$	Compute the mean of the last 4 measurements.
2	$S = ((\mathbf{sum[X^2]} - \mathbf{sum[X]}^2/\mathbf{N}) / (\mathbf{N}-1))^{1/2}$ $= ((\mathbf{7781.95} - \mathbf{29618.41/4}) / (\mathbf{4}-1))^{1/2}$ $= \mathbf{11.215}$	Compute sd of the last 4 measurements.
3	$LCL = \bar{\mathbf{X}} - \mathbf{tS/N}^{1/2}$ $= \mathbf{43.025} - \mathbf{2.353} * \mathbf{11.215/4}^{1/2}$ $= \mathbf{29.833}$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$UCL = \bar{\mathbf{X}} + \mathbf{tS/N}^{1/2}$ $= \mathbf{43.025} + \mathbf{2.353} * \mathbf{11.215/4}^{1/2}$ $= \mathbf{56.217}$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = \mathbf{N} * (\mathbf{N}-1) / 2$ $= \mathbf{22} * (\mathbf{22}-1) / 2$ $= \mathbf{231}$	Number of sample pairs during trend detection period.
6	$S = \mathbf{-3.703}$	Sen's estimator of trend.
7	$var(S) = \mathbf{1256.667}$	Variance estimate for slope.
8	$M(S) = (\mathbf{N'} \pm \mathbf{Z}_{.995} * \mathbf{var(S)}^{1/2}) / 2$ $= (\mathbf{231} \pm \mathbf{2.576} * \mathbf{1256.667}^{1/2}) / 2$ $= [\ \mathbf{69.841}, \mathbf{161.159}\ ]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M^{th} largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$CL(S) = [\ \mathbf{-7.03}, \mathbf{-1.724}\ ]$	Two-sided confidence interval for slope.
10	$UCL(S) < 0$	**Significant decreasing trend.**

Worksheet 6 - Assessment Monitoring
Cobalt, total (ug/L) at MW-7

Step	Equation	Description
1	$\bar{X}$ = **sum[X]** / **N** = **1.4** / **4** = **0.35**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2] - sum[X]^2**/**N**) / (**N**-1))^{½} = ((**0.76** - **1.96**/**4**) / (**4**-1))^{½} = **0.3**	Compute sd of the last 4 measurements.
3	LCL = $\bar{X}$ - **tS**/**N**^{½} = **0.35** - **2.353** * **0.3**/**4**^{½} = **0.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\bar{X}$ + **tS**/**N**^{½} = **0.35** + **2.353** * **0.3**/**4**^{½} = **0.703**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **22** * (**22**-1) / 2 = **231**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **307.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**231** ± **2.576** * **307.667**^{½}) / 2 = [**92.908**, **138.092**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**0.0**, **0.0**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Zinc, total (ug/L) at MW-7

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N**	Compute the mean of the last 4 measurements.
	= **87.0** / **4**	
	= **21.75**	
2	S = ((**sum[X^2] - sum[X]^2/N**) / (**N**-1))^{½}	Compute sd of the last 4 measurements.
	= ((**2516.5** - **7569.0/4**) / (**4**-1))^{½}	
	= **14.425**	
3	LCL = **$\overline{X}$ - tS/N**^{½}	Compute lower confidence limit for the mean of the last 4 measurements.
	= **21.75** - **2.353** * **14.425/4**^{½}	
	= **4.782**	
4	UCL = **$\overline{X}$ + tS/N**^{½}	Compute upper confidence limit for the mean of the last 4 measurements.
	= **21.75** + **2.353** * **14.425/4**^{½}	
	= **38.718**	
5	N' = **N** * (**N**-1) / 2	Number of sample pairs during trend detection period.
	= **22** * (**22**-1) / 2	
	= **231**	
6	S = **-4.595**	Sen's estimator of trend.
7	var(S) = **1253.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
	= (**231** ± **2.576** * **1253.0**^{½}) / 2	
	= [**69.908**, **161.092**]	
9	CL(S) = [**-9.611**, **0.0**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Appendix D.3 – Summary of Field Turbidity

Fayette County Sanitary Landfill

Field Turbidity Over Time

No-Purge Sampling

Date	Monitoring Well											
	5	**7**	**9**	**12**	**16**	**17**	**21**	**24**	**25**	**26**	**32**	**33**
10/20/15	5.57	0.15	4.93	0.52	5.26	2.84	0.18	0.79	0.31	0.67		
2/25/16												
4/11/16	1.18	0.12	532.2	0.23	0.24	8.44	0.4	0.78	0.58	0.1		
7/13/16			6.64									
10/11/16	1.82	0.23	7.19	0.16	0.46	1.93	0.16	0.49	0.18	2.26		
1/24/17			97.74						1.49	3.59		
4/12/17	11.88	0.27	3.59	1.18	0.24	1.35	0.38	1.54	0.99	0.65		
7/10/17					17.42							
10/25/17	22.4	0.87	28.6	1.07	1.09	1.7	2.67	74.2	0.57	1.45		
1/17/18										10.5		
4/11/18	7.1	0.58	87.63	0.82	0.89	0.73	0.8	1.02	0.63	1.68	19.25	
7/2/18			4.21							3.84		0.56
10/16/18	8.43	0.66	6.61	0.85	0.86	0.55	0.41	1.33	0.49	0.6	9.07	0.67
4/17/19	3.18	0.18	362.2	0.62	0.81	1.76	3.2	4.62	1.5	1.2	12.17	3.75
7/23/19	2.61											
10/15/19	32.41	0.78	2.66	0.77	0.91	0.86	0.69	1.14	0.67	0.91	3.68	1.09
4/6/20	15.16	1.8	228.8	1.08	0.96	1.41	0.6	6.41	1.73	1.28	6.16	3.8
7/1/20												1.77
10/13/20	2.35	1.33	4.37	5.88	1.58	3.69	3.51	1.33	1.33	19.89	3.37	1.34
4/12/21	5.63	1.86	219.9	3.18	6.21	2.21	1.55	1.86	2.45	1.24	78.13	2.13
7/1/21											25.74	
10/6/21	4.78	1.43	11.79	1.21	1.48	1.83	0.89	1.97	5.91	1.52	3.27	1.38
4/15/22	7.87	1.58	159.1	1.37	1.14	2.01	7.67	1.27	1.65	0.96	44.74	2.2
7/13/22												7.55
10/25/22	2.81	1.14	3.43	1.69	0.95	7.21		11.32	1.04	1.22	1.2	3.76
1/9/23												
4/3/23	2.75	0.88	32.28	1.6	1.08	1.44	0.91	5.14	0.69	0.61	115.9	77.56
10/16/23	14.26	5.11	29.14	2.7	2.07	2.1			3.97	1.5	72.86	57.47
4/22/24	4.46	2.66	24.41	6.91	2.27	2.66	2.75	7.61	2.69	83.06	35.63	88.99
10/7/24	3.35	6.02	8.7	3.84	3.15	2.54	26.42		2.54	7.81	23.22	
Max	**32.41**	**6.02**	**532.20**	**6.91**	**17.42**	**8.44**	**26.42**	**74.20**	**5.91**	**83.06**	**115.90**	**88.99**
Min	**1.18**	**0.12**	**2.66**	**0.16**	**0.24**	**0.55**	**0.16**	**0.49**	**0.18**	**0.10**	**1.20**	**0.56**
Ave	**8.00**	**1.46**	**84.82**	**1.88**	**2.45**	**2.49**	**3.13**	**7.22**	**1.57**	**6.66**	**30.29**	**16.93**
Std Dev	**7.91**	**1.61**	**138.55**	**1.87**	**3.85**	**2.04**	**6.29**	**17.52**	**1.40**	**17.65**	**34.05**	**30.54**

Appendix D.4 – Running Summary of Prediction Limit Exceedances by Year

Prediction Limit Exceedances

Spring 2016 †		**Fall 2016**	
MW-24	None	MW-24**	Arsenic
			Barium
			Cobalt
			Nickel
			Benzene
MW-25	None	MW-25	Cobalt
MW-27	1,1-Dichloroethane	MW-27**	Arsenic
	Benzene		Barium
	Chloroethane		Cobalt
	Vinyl Chloride		Nickel
			1,1-Dichloroethane
			Benzene
			Chloroethane
			Vinyl Chloride
MW-28	Benzene	MW-28**	Arsenic
			Barium
			Cobalt
			Nickel
			1,1-Dichloroethane
			Benzene
			Chloroethane
MW-5	Benzene	MW-5**	Arsenic
	Chloroethane		Cobalt
	Cis-1,2-dichloroethene		Benzene
			Chloroethane
			Cis-1,2-dichloroethene
MW-7	None	MW-7**	Zinc
MW-9	None	MW-9	Barium
MW-10**	Arsenic	MW-10**	None

*** Monitoring well is an Assessment or Corrective Action monitoring point and water quality should be compared to GWPS, rather than site prediction limits.*

† = predates the restriction of background data to the "No Purge" data. Inorganic data is excluded prior to October, 2016. Only VOC information is considered accurate prior to October, 2016.

Spring 2017		Fall 2017	
MW-5**	Benzene	MW-5**	Benzene
	Chloroethane		Chlorobenzene
	Cis-1,2-dichloroethene		Chloroethane
	Vinyl Chloride		Cis-1,2-dichloroethene
			Ethylbenzene
MW-6**	None	MW-6**	Arsenic
MW-7**	None	MW-7**	None
MW-9**	Barium	MW-9**	Barium
	Cobalt		
MW-10**	Bis(2-ethylhexyl)phthalate	MW-10**	None
MW-16**	Zinc	MW-16**	Nickel
MW-24**	Barium	MW-24**	Arsenic
	Cobalt		Barium
	Nickel		Cobalt
			Nickel
MW-25**	Cobalt	MW-25**	Cobalt
	Bis(2-ethylhexyl)phthalate		Nickel
			Zinc
MW-26**	Nickel	MW-26**	Cobalt
			Nickel
			Bis(2-ethylhexyl)phthalate
MW-27**	1,1-Dichloroethane	MW-27**	1,1-Dichloroethane
	Chloroethane		Benzene
	Vinyl Chloride		Chloroethane
MW-28**	Benzene	MW-28**	Benzene
	Chloroethane		

*** Monitoring well is an Assessment or Corrective Action monitoring point and water quality should be compared to GWPS, rather than site prediction limits.*

Spring 2018		Fall 2018	
MW-5**	1,1-Dichloroethane	MW-5**	Benzene
	1,4-dichlorobenzene		Chloroethane
	2-butanone		
	Acetone		
	Benzene		
	Chlorobenzene		
	Chloroethane		
	Cis-1,2-dichloroethene		
	Ethylbenzene		
	Xylenes		
MW-6**	Arsenic	MW-6**	None
MW-7**	None	MW-7**	None
MW-9**	Bis(2-ethylhexyl)phthalate	MW-9**	Barium
	Arsenic		
	Barium		
	Cobalt		
MW-10**	Bis(2-ethylhexyl)phthalate	MW-10**	Bis(2-ethylhexyl)phthalate
MW-16**	None	MW-16**	None
MW-24**	Benzene	MW-24**	Barium
	Arsenic		Cobalt
	Barium		Nickel
	Cobalt		
	Nickel		
MW-25**	Zinc	MW-25**	Cobalt
MW-26**	Cobalt	MW-26**	Cobalt
	Nickel		

*** Monitoring well is an Assessment or Corrective Action monitoring point and water quality should be compared to GWPS, rather than site prediction limits.*

Spring 2019		Fall 2019	
MW-5**	Arsenic	MW-5**	Arsenic
	Cobalt		Benzene
	Benzene		Chlorobenzene
	Chloroethane		Chloroethane
	Cis-1,2-dichloroethene		
	Ethylbenzene		
MW-6**	Copper	MW-6**	None
	1,4-dichlorobenzene		
MW-7**	Zinc	MW-7**	Zinc
MW-9**	Arsenic	MW-9**	Barium
	Barium		Bis(2-ethylhexyl)phthalate
	Cobalt		
MW-10**	None	MW-10**	None
MW-16**	None	MW-16**	None
MW-24**	Barium	MW-24**	Barium
	Cobalt		Cobalt
	Nickel		Nickel
MW-25**	Cobalt	MW-25**	Cobalt
MW-26**	Bis(2-ethylhexyl)phthalate	MW-26**	Cobalt
			Nickel

*** Monitoring well is an Assessment or Corrective Action monitoring point and water quality should be compared to GWPS, rather than site prediction limits.*

Spring, 2020		**Fall 2020**	
MW-5**	Arsenic	MW-5**	Arsenic
	Benzene		Cobalt
	Chloroethane		Benzene
			Chloroethane
			cis-1,2-dichloroethene
MW-6**	None	MW-6**	None
MW-7**	Zinc	MW-7**	Zinc
MW-9**	Arsenic	MW-9**	Barium
	Barium		
	Cobalt		
MW-10**	None	MW-10**	None
MW-16**	None	MW-16**	None
MW-24**	Barium	MW-24**	Arsenic
	Cobalt		Barium
	Nickel		Cobalt
			Nickel
			Benzene
			1,1-dichloroethane
			vinyl chloride
MW-25**	None	MW-25**	Cobalt
MW-26**	Cobalt	MW-26**	Cobalt
			Nickel

*** Monitoring well is an Assessment or Corrective Action monitoring point and water quality should be compared to GWPS, rather than site prediction limits.*

Spring, 2021		Fall 2021	
MW-5**	Acetone	MW-5**	1,4-dichlorobenzene
	Benzene		Benzene
	Chloroethane		Chlorobenzene
	Ethylbenzene		Chloroethane
	Xylenes		cis-1,2-dichloroethene
MW-9**	Arsenic	MW-9**	Barium
	Barium		
	Cobalt		
	Bis(2-ethylhexyl)phthalate		
MW-24**	Barium	MW-24**	Arsenic
	Cobalt		Barium
	Nickel		Cobalt
	Bis(2-ethylhexyl)phthalate		Nickel
			1,1-dichloroethane
			Benzene
			vinyl chloride
MW-25**	Cobalt	MW-25**	Cobalt
MW-26**	None	MW-26**	Cobalt
			Nickel
MW-32**	Arsenic	MW-32**	None
	Barium		

*** Monitoring well is an Assessment or Corrective Action monitoring point and water quality should be compared to GWPS, rather than site prediction limits.*

Spring, 2022		Fall 2022	
MW-5**	1,4-dichlorobenzene	MW-5**	Benzene
	2-butanone		Chlorobenzene
	Acetone		Chloroethane
	Benzene		cis-1,2-dichloroethene
	Xylenes		cis-1,2-dichloroethene
	Carbon Disulfide		Ethylbenzene
	Chlorobenzene		Toluene
	Chloroethane		
	cis-1,2-dichloroethene		
	Ethylbenzene		
	Xylenes		
MW-9**	Arsenic	MW-9**	Arsenic
	Barium		Barium
	Cobalt		Bis(2-ethylhexyl)phthalate
MW-24**	Barium	MW-24**	Arsenic
	Cobalt		Barium
	Nickel		Nickel
			1,1-dichloroethane
			Benzene
			Chloroethane
			vinyl chloride
MW-25**	None	MW-25**	Cobalt
MW-26**	None	MW-26**	Cobalt
			Nickel
MW-32**	Barium	MW-32**	Barium
			Cobalt
MW-33**	Cobalt	MW-33**	Barium
			Cobalt
			Nickel
			Bis(2-ethylhexyl)phthalate

*** Monitoring well is an Assessment or Corrective Action monitoring point and water quality should be compared to GWPS, rather than site prediction limit*

Spring, 2023		Fall 2023	
MW-5**	Benzene	MW-5**	Benzene
	Chlorobenzene		Chlorobenzene
	Chloroethane		Chloroethane
	cis-1,2-dichloroethene		cis-1,2-dichloroethene
	Vinyl chloride		
MW-9**	Arsenic	MW-9**	Arsenic
	Barium		Barium
	Cobalt		Cobalt
			Nickel
MW-24**	Barium	MW-24**	None
	Nickel		
MW-25**	Bis(2-ethylhexyl)phthalate	MW-25**	None
MW-26**	Bis(2-ethylhexyl)phthalate	MW-26**	Acetone
			Cobalt
			Nickel
MW-32**	Barium	MW-32**	Arsenic
			Barium
MW-33**	Cadmiumt	MW-33**	Arsenic
	Cobalt		Barium
	Nickel		Cadmium
			Cobalt
			Copper
			Nickel
			Vanadium

*** Monitoring well is an Assessment or Corrective Action monitoring point and water quality should be compared to GWPS, rather than site prediction limit*

Spring, 2024		**Fall 2024**	
MW-5**	Benzene	MW-5**	1,1-dichloroethane
	Chloroethane		Benzene
	cis-1,2-dichloroethene		Chlorobenzene
	Cobalt		Chloroethane
			cis-1,2-dichloroethene
			Toluene
			Arsenic
			Cobalt
MW-9**	Barium	MW-9**	Arsenic
	Cobalt		Barium
	Nickel		Cobalt
MW-24**	Arsenic	MW-24**	Dry
	Barium		
	Cobalt		
	Nickel		
MW-25**	Arsenic	MW-25**	None
	Cobalt		
	Nickel		
MW-26**	Cobalt	MW-26**	Cobalt
MW-32**	Barium	MW-32**	Arsenic
	Cobalt		Barium
	Nickel		
MW-33**	Arsenic	MW-33**	Dry
	Cadmium		
	Cobalt		
	Nickel		

*** Monitoring well is an Assessment or Corrective Action monitoring point and water quality should be compared to GWPS, rather than site prediction limit*

Appendix E

Laboratory Reports for Reporting Period

With Chain of Custody

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Project Description

6040

For:

Todd Whipple

HLW Engineering

PO Box 314

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Thursday, May 23, 2024

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., Newton. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

HLW Engineering

Todd Whipple
PO Box 314
Story City, IA 50248

Project Name: 6040

Project / PO Number: N/A
Received: 04/24/2024
Reported: 05/23/2024

Case Narrative

Amended Report, May 23, 2024: The total metals results for samples 1HD2169-09 and 15 originally reported were not correct due to a login error. The correct results for these samples are included in this report.

James Eggers
Quality Assurance Officer

Sample Summary Report

Sample Name	Laboratory ID	Client Matrix	Sample Type	Sample Begin	Sample Taken	Lab Received
MW-12	1HD2169-01	Aqueous	GRAB		04/22/24 09:25	04/24/24 10:16
MW-21	1HD2169-02	Aqueous	GRAB		04/22/24 10:25	04/24/24 10:16
MW-17	1HD2169-03	Aqueous	GRAB		04/22/24 10:43	04/24/24 10:16
MW-5	1HD2169-04	Aqueous	GRAB		04/22/24 10:01	04/24/24 10:16
MW-7	1HD2169-05	Aqueous	GRAB		04/22/24 12:27	04/24/24 10:16
MW-9	1HD2169-06	Aqueous	GRAB		04/22/24 13:36	04/24/24 10:16
MW-16	1HD2169-07	Aqueous	GRAB		04/22/24 11:47	04/24/24 10:16
MW-24	1HD2169-08	Aqueous	GRAB		04/22/24 12:43	04/24/24 10:16
MW-25	1HD2169-09	Aqueous	GRAB		04/22/24 12:04	04/24/24 10:16
MW-26	1HD2169-10	Aqueous	GRAB		04/22/24 11:30	04/24/24 10:16
MW-32	1HD2169-11	Aqueous	GRAB		04/22/24 13:17	04/24/24 10:16
MW-33	1HD2169-12	Aqueous	GRAB		04/22/24 13:01	04/24/24 10:16
ACM Tile 1	1HD2169-13	Aqueous	GRAB		04/22/24 11:20	04/24/24 10:16
PECS-1	1HD2169-14	Aqueous	GRAB		04/22/24 11:13	04/24/24 10:16
Duplicate	1HD2169-15	Aqueous	GRAB		04/22/24 00:00	04/24/24 10:16

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Analytical Testing Parameters

Client Sample ID:	MW-12			
Sample Matrix:	Aqueous		**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-01		**Collection Date:**	04/22/2024 9:25

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		05/01/24 0000	05/01/24 1540	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Bromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Chloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Acetone	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Acrylonitrile	<5.0	5.0	ug/L	1	**I-05**	05/01/24 0000	05/01/24 1540	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Chloroform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Benzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Dibromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Toluene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Xylenes, total	<2.0	2.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Styrene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	MW-12			
Sample Matrix:	Aqueous		**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-01		**Collection Date:**	04/22/2024 9:25

Determination of Volatile Organic Compounds	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
Bromoform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1540	LJS
Surrogate: Dibromofluoromethane	92.7	Limit: 75-136	% Rec	1		05/01/24 0000	05/01/24 1540	LJS
Surrogate: Dibromofluoromethane	92.7	Limit: 80-126	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1540	LJS
Surrogate: 1,2-Dichloroethane-d4	94.8	Limit: 63-138	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1540	LJS
Surrogate: 1,2-Dichloroethane-d4	94.8	Limit: 61-142	% Rec	1		05/01/24 0000	05/01/24 1540	LJS
Surrogate: Toluene-d8	99.3	Limit: 82-121	% Rec	1		05/01/24 0000	05/01/24 1540	LJS
Surrogate: Toluene-d8	99.3	Limit: 87-116	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1540	LJS
Surrogate: 4-Bromofluorobenzene	102	Limit: 85-111	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1540	LJS
Surrogate: 4-Bromofluorobenzene	102	Limit: 80-116	% Rec	1		05/01/24 0000	05/01/24 1540	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		05/01/24 1209	05/02/24 2328	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/02/24 2328	RVV
Barium, total	**0.110**	0.0040	mg/L	4		05/01/24 1209	05/02/24 2328	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/02/24 2328	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		05/01/24 1209	05/02/24 2328	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		05/01/24 1209	05/02/24 2328	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		05/01/24 1209	05/02/24 2328	RVV
Copper, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/02/24 2328	RVV
Lead, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/02/24 2328	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/02/24 2328	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/02/24 2328	RVV
Silver, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/02/24 2328	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		05/01/24 1209	05/02/24 2328	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/02/24 2328	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/02/24 2328	RVV

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	MW-21		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-02	**Collection Date:**	04/22/2024 10:25

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		05/01/24 0000	05/01/24 1603	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Bromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Chloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Acetone	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Acrylonitrile	<5.0	5.0	ug/L	1	**I-05**	05/01/24 0000	05/01/24 1603	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Chloroform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Benzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Dibromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Toluene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Xylenes, total	<2.0	2.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Styrene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Bromoform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS

Client Sample ID:	MW-21		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-02	**Collection Date:**	04/22/2024 10:25

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1603	LJS
Surrogate: Dibromofluoromethane	92.7	Limit: 80-126	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1603	LJS
Surrogate: Dibromofluoromethane	92.7	Limit: 75-136	% Rec	1		05/01/24 0000	05/01/24 1603	LJS
Surrogate: 1,2-Dichloroethane-d4	93.9	Limit: 61-142	% Rec	1		05/01/24 0000	05/01/24 1603	LJS
Surrogate: 1,2-Dichloroethane-d4	93.9	Limit: 63-138	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1603	LJS
Surrogate: Toluene-d8	98.7	Limit: 82-121	% Rec	1		05/01/24 0000	05/01/24 1603	LJS
Surrogate: Toluene-d8	98.7	Limit: 87-116	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1603	LJS
Surrogate: 4-Bromofluorobenzene	102	Limit: 80-116	% Rec	1		05/01/24 0000	05/01/24 1603	LJS
Surrogate: 4-Bromofluorobenzene	102	Limit: 85-111	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1603	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		05/01/24 1209	05/03/24 0005	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0005	RVV
Barium, total	**0.0452**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0005	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0005	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		05/01/24 1209	05/03/24 0005	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		05/01/24 1209	05/03/24 0005	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		05/01/24 1209	05/03/24 0005	RVV
Copper, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0005	RVV
Lead, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0005	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0005	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0005	RVV
Silver, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0005	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		05/01/24 1209	05/03/24 0005	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0005	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0005	RVV

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	MW-17		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-03	**Collection Date:**	04/22/2024 10:43

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		05/01/24 0000	05/01/24 1626	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Bromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Chloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Acetone	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Acrylonitrile	<5.0	5.0	ug/L	1	**I-05**	05/01/24 0000	05/01/24 1626	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Chloroform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Benzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Dibromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Toluene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Xylenes, total	<2.0	2.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Styrene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Bromoform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS

Client Sample ID:	MW-17		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-03	**Collection Date:**	04/22/2024 10:43

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		05/01/24 0000	05/01/24 1626	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1626	LJS
Surrogate: Dibromofluoromethane	91.4	Limit: 75-136	% Rec	1		05/01/24 0000	05/01/24 1626	LJS
Surrogate: Dibromofluoromethane	91.4	Limit: 80-126	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1626	LJS
Surrogate: 1,2-Dichloroethane-d4	93.8	Limit: 61-142	% Rec	1		05/01/24 0000	05/01/24 1626	LJS
Surrogate: 1,2-Dichloroethane-d4	93.8	Limit: 63-138	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1626	LJS
Surrogate: Toluene-d8	98.7	Limit: 82-121	% Rec	1		05/01/24 0000	05/01/24 1626	LJS
Surrogate: Toluene-d8	98.7	Limit: 87-116	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1626	LJS
Surrogate: 4-Bromofluorobenzene	102	Limit: 80-116	% Rec	1		05/01/24 0000	05/01/24 1626	LJS
Surrogate: 4-Bromofluorobenzene	102	Limit: 85-111	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1626	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		05/01/24 1209	05/03/24 0011	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0011	RVV
Barium, total	**0.103**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0011	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0011	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		05/01/24 1209	05/03/24 0011	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		05/01/24 1209	05/03/24 0011	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		05/01/24 1209	05/03/24 0011	RVV
Copper, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0011	RVV
Lead, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0011	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0011	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0011	RVV
Silver, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0011	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		05/01/24 1209	05/03/24 0011	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0011	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0011	RVV

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	MW-5		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-04	**Collection Date:**	04/22/2024 10:01

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		05/01/24 0000	05/01/24 1649	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Bromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Chloroethane	**4.1**	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Acetone	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Acrylonitrile	<5.0	5.0	ug/L	1	**I-05**	05/01/24 0000	05/01/24 1649	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
cis-1,2-Dichloroethylene	**1.1**	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Chloroform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Benzene	**3.7**	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Dibromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Toluene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Xylenes, total	<2.0	2.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Styrene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Bromoform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	MW-5		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-04	**Collection Date:**	04/22/2024 10:01

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		05/01/24 0000	05/01/24 1649	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1649	LJS
Surrogate: Dibromofluoromethane	92.7	Limit: 80-126	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1649	LJS
Surrogate: Dibromofluoromethane	92.7	Limit: 75-136	% Rec	1		05/01/24 0000	05/01/24 1649	LJS
Surrogate: 1,2-Dichloroethane-d4	94.6	Limit: 63-138	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1649	LJS
Surrogate: 1,2-Dichloroethane-d4	94.6	Limit: 61-142	% Rec	1		05/01/24 0000	05/01/24 1649	LJS
Surrogate: Toluene-d8	98.5	Limit: 87-116	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1649	LJS
Surrogate: Toluene-d8	98.5	Limit: 82-121	% Rec	1		05/01/24 0000	05/01/24 1649	LJS
Surrogate: 4-Bromofluorobenzene	102	Limit: 85-111	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1649	LJS
Surrogate: 4-Bromofluorobenzene	102	Limit: 80-116	% Rec	1		05/01/24 0000	05/01/24 1649	LJS

Determination of Conventional Chemistry Parameters	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
EPA 376.2								
Sulfide, total	<0.10	0.10	mg/L	1	**I-05**	05/01/24 0840	05/01/24 1026	CHP

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		05/01/24 1209	05/03/24 0017	RVV
Arsenic, total	**0.0150**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0017	RVV
Barium, total	**0.261**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0017	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0017	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		05/01/24 1209	05/03/24 0017	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		05/01/24 1209	05/03/24 0017	RVV
Cobalt, total	**0.0006**	0.0004	mg/L	4		05/01/24 1209	05/03/24 0017	RVV
Copper, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0017	RVV
Lead, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0017	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0017	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0017	RVV
Silver, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0017	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		05/01/24 1209	05/03/24 0017	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0017	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0017	RVV

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	MW-7			
Sample Matrix:	Aqueous		**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-05		**Collection Date:**	04/22/2024 12:27

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		05/01/24 0000	05/01/24 1712	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Bromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Chloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Acetone	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Acrylonitrile	<5.0	5.0	ug/L	1	**I-05**	05/01/24 0000	05/01/24 1712	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Chloroform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Benzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Dibromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Toluene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Xylenes, total	<2.0	2.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Styrene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Bromoform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	MW-7		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-05	**Collection Date:**	04/22/2024 12:27

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		05/01/24 0000	05/01/24 1712	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1712	LJS
Surrogate: Dibromofluoromethane	93.0	Limit: 75-136	% Rec	1		05/01/24 0000	05/01/24 1712	LJS
Surrogate: Dibromofluoromethane	93.0	Limit: 80-126	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1712	LJS
Surrogate: 1,2-Dichloroethane-d4	94.7	Limit: 61-142	% Rec	1		05/01/24 0000	05/01/24 1712	LJS
Surrogate: 1,2-Dichloroethane-d4	94.7	Limit: 63-138	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1712	LJS
Surrogate: Toluene-d8	98.4	Limit: 82-121	% Rec	1		05/01/24 0000	05/01/24 1712	LJS
Surrogate: Toluene-d8	98.4	Limit: 87-116	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1712	LJS
Surrogate: 4-Bromofluorobenzene	102	Limit: 85-111	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1712	LJS
Surrogate: 4-Bromofluorobenzene	102	Limit: 80-116	% Rec	1		05/01/24 0000	05/01/24 1712	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		05/01/24 1209	05/03/24 0023	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0023	RVV
Barium, total	**0.0395**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0023	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0023	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		05/01/24 1209	05/03/24 0023	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		05/01/24 1209	05/03/24 0023	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		05/01/24 1209	05/03/24 0023	RVV
Copper, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0023	RVV
Lead, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0023	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0023	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0023	RVV
Silver, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0023	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		05/01/24 1209	05/03/24 0023	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0023	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0023	RVV

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	MW-9		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-06	**Collection Date:**	04/22/2024 13:36

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		05/01/24 0000	05/01/24 1735	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Bromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Chloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Acetone	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Acrylonitrile	<5.0	5.0	ug/L	1	**I-05**	05/01/24 0000	05/01/24 1735	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Chloroform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Benzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Dibromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Toluene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Xylenes, total	<2.0	2.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Styrene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Bromoform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS

Client Sample ID:	MW-9		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-06	**Collection Date:**	04/22/2024 13:36

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		05/01/24 0000	05/01/24 1735	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1735	LJS
Surrogate: Dibromofluoromethane	92.3	Limit: 80-126	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1735	LJS
Surrogate: Dibromofluoromethane	92.3	Limit: 75-136	% Rec	1		05/01/24 0000	05/01/24 1735	LJS
Surrogate: 1,2-Dichloroethane-d4	94.0	Limit: 63-138	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1735	LJS
Surrogate: 1,2-Dichloroethane-d4	94.0	Limit: 61-142	% Rec	1		05/01/24 0000	05/01/24 1735	LJS
Surrogate: Toluene-d8	98.1	Limit: 82-121	% Rec	1		05/01/24 0000	05/01/24 1735	LJS
Surrogate: Toluene-d8	98.1	Limit: 87-116	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1735	LJS
Surrogate: 4-Bromofluorobenzene	101	Limit: 85-111	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1735	LJS
Surrogate: 4-Bromofluorobenzene	101	Limit: 80-116	% Rec	1		05/01/24 0000	05/01/24 1735	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		05/01/24 1209	05/03/24 0029	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0029	RVV
Barium, total	**0.394**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0029	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0029	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		05/01/24 1209	05/03/24 0029	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		05/01/24 1209	05/03/24 0029	RVV
Cobalt, total	**0.0016**	0.0004	mg/L	4		05/01/24 1209	05/03/24 0029	RVV
Copper, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0029	RVV
Lead, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0029	RVV
Nickel, total	**0.0051**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0029	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0029	RVV
Silver, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0029	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		05/01/24 1209	05/03/24 0029	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0029	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0029	RVV

Client Sample ID:	MW-16		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-07	**Collection Date:**	04/22/2024 11:47

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		05/01/24 0000	05/01/24 1757	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Bromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Chloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Acetone	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Acrylonitrile	<5.0	5.0	ug/L	1	**I-05**	05/01/24 0000	05/01/24 1757	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Chloroform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Benzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Dibromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Toluene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Xylenes, total	<2.0	2.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Styrene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Bromoform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS

Client Sample ID:	MW-16		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-07	**Collection Date:**	04/22/2024 11:47

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		05/01/24 0000	05/01/24 1757	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1757	LJS
Surrogate: Dibromofluoromethane	92.5	Limit: 75-136	% Rec	1		05/01/24 0000	05/01/24 1757	LJS
Surrogate: Dibromofluoromethane	92.5	Limit: 80-126	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1757	LJS
Surrogate: 1,2-Dichloroethane-d4	93.4	Limit: 61-142	% Rec	1		05/01/24 0000	05/01/24 1757	LJS
Surrogate: 1,2-Dichloroethane-d4	93.4	Limit: 63-138	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1757	LJS
Surrogate: Toluene-d8	99.0	Limit: 82-121	% Rec	1		05/01/24 0000	05/01/24 1757	LJS
Surrogate: Toluene-d8	99.0	Limit: 87-116	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1757	LJS
Surrogate: 4-Bromofluorobenzene	102	Limit: 85-111	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1757	LJS
Surrogate: 4-Bromofluorobenzene	102	Limit: 80-116	% Rec	1		05/01/24 0000	05/01/24 1757	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		05/01/24 1209	05/03/24 0035	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0035	RVV
Barium, total	**0.121**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0035	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0035	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		05/01/24 1209	05/03/24 0035	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		05/01/24 1209	05/03/24 0035	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		05/01/24 1209	05/03/24 0035	RVV
Copper, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0035	RVV
Lead, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0035	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0035	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0035	RVV
Silver, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0035	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		05/01/24 1209	05/03/24 0035	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0035	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0035	RVV

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	MW-24		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-08	**Collection Date:**	04/22/2024 12:43

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		05/01/24 0000	05/01/24 1820	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Bromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Chloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Acetone	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Acrylonitrile	<5.0	5.0	ug/L	1	**I-05**	05/01/24 0000	05/01/24 1820	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Chloroform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Benzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Dibromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Toluene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Xylenes, total	<2.0	2.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Styrene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Bromoform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS

Client Sample ID:	MW-24		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-08	**Collection Date:**	04/22/2024 12:43

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		05/01/24 0000	05/01/24 1820	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1820	LJS
Surrogate: Dibromofluoromethane	90.9	Limit: 80-126	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1820	LJS
Surrogate: Dibromofluoromethane	90.9	Limit: 75-136	% Rec	1		05/01/24 0000	05/01/24 1820	LJS
Surrogate: 1,2-Dichloroethane-d4	93.0	Limit: 61-142	% Rec	1		05/01/24 0000	05/01/24 1820	LJS
Surrogate: 1,2-Dichloroethane-d4	93.0	Limit: 63-138	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1820	LJS
Surrogate: Toluene-d8	98.2	Limit: 87-116	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1820	LJS
Surrogate: Toluene-d8	98.2	Limit: 82-121	% Rec	1		05/01/24 0000	05/01/24 1820	LJS
Surrogate: 4-Bromofluorobenzene	101	Limit: 80-116	% Rec	1		05/01/24 0000	05/01/24 1820	LJS
Surrogate: 4-Bromofluorobenzene	101	Limit: 85-111	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1820	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		05/01/24 1209	05/03/24 0041	RVV
Arsenic, total	**0.0108**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0041	RVV
Barium, total	**0.490**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0041	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0041	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		05/01/24 1209	05/03/24 0041	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		05/01/24 1209	05/03/24 0041	RVV
Cobalt, total	**0.0021**	0.0004	mg/L	4		05/01/24 1209	05/03/24 0041	RVV
Copper, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0041	RVV
Lead, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0041	RVV
Nickel, total	**0.0380**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0041	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0041	RVV
Silver, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0041	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		05/01/24 1209	05/03/24 0041	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0041	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0041	RVV

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	MW-25		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-09	**Collection Date:**	04/22/2024 12:04

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		05/01/24 0000	05/01/24 1843	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Bromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Chloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Acetone	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Acrylonitrile	<5.0	5.0	ug/L	1	**I-05**	05/01/24 0000	05/01/24 1843	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Chloroform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Benzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Dibromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Toluene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Xylenes, total	<2.0	2.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Styrene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Bromoform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	MW-25		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-09	**Collection Date:**	04/22/2024 12:04

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		05/01/24 0000	05/01/24 1843	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1843	LJS
Surrogate: Dibromofluoromethane	91.4	Limit: 80-126	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1843	LJS
Surrogate: Dibromofluoromethane	91.4	Limit: 75-136	% Rec	1		05/01/24 0000	05/01/24 1843	LJS
Surrogate: 1,2-Dichloroethane-d4	93.4	Limit: 63-138	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1843	LJS
Surrogate: 1,2-Dichloroethane-d4	93.4	Limit: 61-142	% Rec	1		05/01/24 0000	05/01/24 1843	LJS
Surrogate: Toluene-d8	98.7	Limit: 87-116	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1843	LJS
Surrogate: Toluene-d8	98.7	Limit: 82-121	% Rec	1		05/01/24 0000	05/01/24 1843	LJS
Surrogate: 4-Bromofluorobenzene	101	Limit: 85-111	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1843	LJS
Surrogate: 4-Bromofluorobenzene	101	Limit: 80-116	% Rec	1		05/01/24 0000	05/01/24 1843	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		05/01/24 1209	05/07/24 0147	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/07/24 0147	RVV
Barium, total	**0.0234**	0.0040	mg/L	4		05/01/24 1209	05/07/24 0147	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/07/24 0147	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		05/01/24 1209	05/07/24 0147	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		05/01/24 1209	05/07/24 0147	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		05/01/24 1209	05/07/24 0147	RVV
Copper, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/07/24 0147	RVV
Lead, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/07/24 0147	RVV
Nickel, total	**0.0067**	0.0040	mg/L	4		05/01/24 1209	05/07/24 0147	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/07/24 0147	RVV
Silver, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/07/24 0147	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		05/01/24 1209	05/07/24 0147	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/07/24 0147	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/07/24 0147	RVV

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	MW-26		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-10	**Collection Date:**	04/22/2024 11:30

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		05/01/24 0000	05/01/24 1906	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Bromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Chloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Acetone	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Acrylonitrile	<5.0	5.0	ug/L	1	**I-05**	05/01/24 0000	05/01/24 1906	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Chloroform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Benzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Dibromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Toluene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Xylenes, total	<2.0	2.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Styrene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Bromoform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	MW-26		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-10	**Collection Date:**	04/22/2024 11:30

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		05/01/24 0000	05/01/24 1906	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1906	LJS
Surrogate: Dibromofluoromethane	92.3	Limit: 80-126	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1906	LJS
Surrogate: Dibromofluoromethane	92.3	Limit: 75-136	% Rec	1		05/01/24 0000	05/01/24 1906	LJS
Surrogate: 1,2-Dichloroethane-d4	93.1	Limit: 61-142	% Rec	1		05/01/24 0000	05/01/24 1906	LJS
Surrogate: 1,2-Dichloroethane-d4	93.1	Limit: 63-138	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1906	LJS
Surrogate: Toluene-d8	98.3	Limit: 82-121	% Rec	1		05/01/24 0000	05/01/24 1906	LJS
Surrogate: Toluene-d8	98.3	Limit: 87-116	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1906	LJS
Surrogate: 4-Bromofluorobenzene	101	Limit: 85-111	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1906	LJS
Surrogate: 4-Bromofluorobenzene	101	Limit: 80-116	% Rec	1		05/01/24 0000	05/01/24 1906	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		05/01/24 1209	05/03/24 1137	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 1137	RVV
Barium, total	**0.0261**	0.0040	mg/L	4		05/01/24 1209	05/03/24 1137	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 1137	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		05/01/24 1209	05/03/24 1137	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		05/01/24 1209	05/03/24 1137	RVV
Cobalt, total	**0.0011**	0.0004	mg/L	4		05/01/24 1209	05/03/24 1137	RVV
Copper, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 1137	RVV
Lead, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 1137	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 1137	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 1137	RVV
Silver, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 1137	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		05/01/24 1209	05/03/24 1137	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 1137	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 1137	RVV

Client Sample ID:	MW-32		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-11	**Collection Date:**	04/22/2024 13:17

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		05/01/24 0000	05/01/24 1929	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Bromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Chloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Acetone	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Acrylonitrile	<5.0	5.0	ug/L	1	**I-05**	05/01/24 0000	05/01/24 1929	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Chloroform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Benzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Dibromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Toluene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Xylenes, total	<2.0	2.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Styrene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Bromoform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS

Client Sample ID:	MW-32		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-11	**Collection Date:**	04/22/2024 13:17

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		05/01/24 0000	05/01/24 1929	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1929	LJS
Surrogate: Dibromofluoromethane	91.7	Limit: 75-136	% Rec	1		05/01/24 0000	05/01/24 1929	LJS
Surrogate: Dibromofluoromethane	91.7	Limit: 80-126	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1929	LJS
Surrogate: 1,2-Dichloroethane-d4	93.8	Limit: 61-142	% Rec	1		05/01/24 0000	05/01/24 1929	LJS
Surrogate: 1,2-Dichloroethane-d4	93.8	Limit: 63-138	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1929	LJS
Surrogate: Toluene-d8	98.4	Limit: 82-121	% Rec	1		05/01/24 0000	05/01/24 1929	LJS
Surrogate: Toluene-d8	98.4	Limit: 87-116	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1929	LJS
Surrogate: 4-Bromofluorobenzene	101	Limit: 80-116	% Rec	1		05/01/24 0000	05/01/24 1929	LJS
Surrogate: 4-Bromofluorobenzene	101	Limit: 85-111	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1929	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		05/01/24 1209	05/03/24 0112	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0112	RVV
Barium, total	**0.421**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0112	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0112	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		05/01/24 1209	05/03/24 0112	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		05/01/24 1209	05/03/24 0112	RVV
Cobalt, total	**0.0014**	0.0004	mg/L	4		05/01/24 1209	05/03/24 0112	RVV
Copper, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0112	RVV
Lead, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0112	RVV
Nickel, total	**0.0066**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0112	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0112	RVV
Silver, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0112	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		05/01/24 1209	05/03/24 0112	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0112	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0112	RVV

Client Sample ID:	MW-33		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-12	**Collection Date:**	04/22/2024 13:01

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		05/01/24 0000	05/01/24 1952	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Bromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Chloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Acetone	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Acrylonitrile	<5.0	5.0	ug/L	1	**I-05**	05/01/24 0000	05/01/24 1952	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Chloroform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Benzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Dibromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Toluene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Xylenes, total	<2.0	2.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Styrene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Bromoform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS

Client Sample ID:	MW-33		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-12	**Collection Date:**	04/22/2024 13:01

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		05/01/24 0000	05/01/24 1952	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 1952	LJS
Surrogate: Dibromofluoromethane	90.4	Limit: 75-136	% Rec	1		05/01/24 0000	05/01/24 1952	LJS
Surrogate: Dibromofluoromethane	90.4	Limit: 80-126	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1952	LJS
Surrogate: 1,2-Dichloroethane-d4	93.1	Limit: 63-138	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1952	LJS
Surrogate: 1,2-Dichloroethane-d4	93.1	Limit: 61-142	% Rec	1		05/01/24 0000	05/01/24 1952	LJS
Surrogate: Toluene-d8	99.0	Limit: 82-121	% Rec	1		05/01/24 0000	05/01/24 1952	LJS
Surrogate: Toluene-d8	99.0	Limit: 87-116	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1952	LJS
Surrogate: 4-Bromofluorobenzene	101	Limit: 85-111	% Rec	1	**I-05**	05/01/24 0000	05/01/24 1952	LJS
Surrogate: 4-Bromofluorobenzene	101	Limit: 80-116	% Rec	1		05/01/24 0000	05/01/24 1952	LJS

Determination of Base/Neutral Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3520C/EPA 8270C			**Method Notes:** O-05					
Bis(2-Ethylhexyl) Phthalate	<6	6	ug/L	1		05/01/24 0945	05/03/24 1531	EPP
Surrogate: Nitrobenzene-d5	96.1	Limit: 29-130	% Rec	1		05/01/24 0945	05/03/24 1531	EPP
Surrogate: 2-Fluorobiphenyl	85.7	Limit: 23-113	% Rec	1		05/01/24 0945	05/03/24 1531	EPP
Surrogate: Terphenyl-dl4	124	Limit: 27-141	% Rec	1		05/01/24 0945	05/03/24 1531	EPP

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		05/01/24 1209	05/03/24 0118	RVV
Arsenic, total	**0.0276**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0118	RVV
Barium, total	**0.185**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0118	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0118	RVV
Cadmium, total	**0.0018**	0.0008	mg/L	4		05/01/24 1209	05/03/24 0118	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		05/01/24 1209	05/03/24 0118	RVV
Cobalt, total	**0.0863**	0.0004	mg/L	4		05/01/24 1209	05/03/24 0118	RVV
Copper, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0118	RVV
Lead, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0118	RVV
Nickel, total	**0.112**	0.0040	mg/L	4		05/01/24 1209	05/03/24 0118	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0118	RVV
Silver, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/03/24 0118	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		05/01/24 1209	05/03/24 0118	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0118	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/03/24 0118	RVV

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	ACM Tile 1		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-13	**Collection Date:**	04/22/2024 11:20

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		05/01/24 0000	05/01/24 2015	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Bromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Chloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Acetone	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Acrylonitrile	<5.0	5.0	ug/L	1	**I-05**	05/01/24 0000	05/01/24 2015	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Chloroform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Benzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Dibromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Toluene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Xylenes, total	<2.0	2.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Styrene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Bromoform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	ACM Tile 1		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-13	**Collection Date:**	04/22/2024 11:20

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		05/01/24 0000	05/01/24 2015	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 2015	LJS
Surrogate: Dibromofluoromethane	91.8	Limit: 80-126	% Rec	1	**I-05**	05/01/24 0000	05/01/24 2015	LJS
Surrogate: Dibromofluoromethane	91.8	Limit: 75-136	% Rec	1		05/01/24 0000	05/01/24 2015	LJS
Surrogate: 1,2-Dichloroethane-d4	92.8	Limit: 61-142	% Rec	1		05/01/24 0000	05/01/24 2015	LJS
Surrogate: 1,2-Dichloroethane-d4	92.8	Limit: 63-138	% Rec	1	**I-05**	05/01/24 0000	05/01/24 2015	LJS
Surrogate: Toluene-d8	97.4	Limit: 87-116	% Rec	1	**I-05**	05/01/24 0000	05/01/24 2015	LJS
Surrogate: Toluene-d8	97.4	Limit: 82-121	% Rec	1		05/01/24 0000	05/01/24 2015	LJS
Surrogate: 4-Bromofluorobenzene	99.8	Limit: 80-116	% Rec	1		05/01/24 0000	05/01/24 2015	LJS
Surrogate: 4-Bromofluorobenzene	99.8	Limit: 85-111	% Rec	1	**I-05**	05/01/24 0000	05/01/24 2015	LJS

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		05/06/24 0931	05/07/24 0021	RVV

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	PECS-1		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-14	**Collection Date:**	04/22/2024 11:13

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		05/01/24 0000	05/01/24 2037	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Bromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Chloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Acetone	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Acrylonitrile	<5.0	5.0	ug/L	1	**I-05**	05/01/24 0000	05/01/24 2037	LJS
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Chloroform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Benzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Dibromomethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Toluene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Xylenes, total	<2.0	2.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Styrene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Bromoform	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD2169

Client Sample ID:	PECS-1		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-14	**Collection Date:**	04/22/2024 11:13

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		05/01/24 0000	05/01/24 2037	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		05/01/24 0000	05/01/24 2037	LJS
Surrogate: Dibromofluoromethane	91.9	Limit: 80-126	% Rec	1	**I-05**	05/01/24 0000	05/01/24 2037	LJS
Surrogate: Dibromofluoromethane	91.9	Limit: 75-136	% Rec	1		05/01/24 0000	05/01/24 2037	LJS
Surrogate: 1,2-Dichloroethane-d4	93.0	Limit: 63-138	% Rec	1	**I-05**	05/01/24 0000	05/01/24 2037	LJS
Surrogate: 1,2-Dichloroethane-d4	93.0	Limit: 61-142	% Rec	1		05/01/24 0000	05/01/24 2037	LJS
Surrogate: Toluene-d8	98.6	Limit: 87-116	% Rec	1	**I-05**	05/01/24 0000	05/01/24 2037	LJS
Surrogate: Toluene-d8	98.6	Limit: 82-121	% Rec	1		05/01/24 0000	05/01/24 2037	LJS
Surrogate: 4-Bromofluorobenzene	100	Limit: 85-111	% Rec	1	**I-05**	05/01/24 0000	05/01/24 2037	LJS
Surrogate: 4-Bromofluorobenzene	100	Limit: 80-116	% Rec	1		05/01/24 0000	05/01/24 2037	LJS

Client Sample ID:	Duplicate		
Sample Matrix:	Aqueous	**Collected By:**	whipple, Todd
Lab Sample ID:	1HD2169-15	**Collection Date:**	04/22/2024

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		05/01/24 1209	05/07/24 0141	RVV
Arsenic, total	**0.0152**	0.0040	mg/L	4		05/01/24 1209	05/07/24 0141	RVV
Barium, total	**0.259**	0.0040	mg/L	4		05/01/24 1209	05/07/24 0141	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/07/24 0141	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		05/01/24 1209	05/07/24 0141	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		05/01/24 1209	05/07/24 0141	RVV
Cobalt, total	**0.0006**	0.0004	mg/L	4		05/01/24 1209	05/07/24 0141	RVV
Copper, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/07/24 0141	RVV
Lead, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/07/24 0141	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/07/24 0141	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/07/24 0141	RVV
Silver, total	<0.0040	0.0040	mg/L	4		05/01/24 1209	05/07/24 0141	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		05/01/24 1209	05/07/24 0141	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/07/24 0141	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		05/01/24 1209	05/07/24 0141	RVV

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 376.2	1HE0016	1HE0016-BS1	
		1HE0016-MS1	1HD2169-04
		1HE0016-MSD1	1HD2169-04
		1HD2169-04	MW-5
		1HE0016-BLK1	

Method	Batch	Laboratory ID	Client / Source ID
EPA 8270C	1HE0018	1HE0018-BLK1	
		1HE0018-BS1	
		1HE0018-BSD1	
		1HD2169-12	MW-33

Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1HE0031	1HE0031-BLK1	
		1HE0031-BS1	
		1HD2169-01	MW-12
		1HE0031-MS1	1HD2169-01
		1HE0031-MSD1	1HD2169-01
		1HE0031-PS1	1HD2169-01
		1HD2169-02	MW-21
		1HD2169-03	MW-17
		1HD2169-04	MW-5
		1HD2169-05	MW-7
		1HD2169-06	MW-9
		1HD2169-07	MW-16
		1HD2169-08	MW-24
		1HD2169-11	MW-32
		1HD2169-12	MW-33
		1HD2169-10	MW-26
		1HD2169-15	Duplicate
		1HD2169-09	MW-25

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260B	1HE0082	1HE0082-BS1	
		1HE0082-BSD1	
		1HE0082-BLK1	
		1HD2169-01	MW-12
		1HD2169-02	MW-21
		1HD2169-03	MW-17
		1HD2169-04	MW-5

EPA 8260B	1HE0082	1HD2169-05	MW-7
		1HD2169-06	MW-9
		1HD2169-07	MW-16
		1HD2169-08	MW-24
		1HD2169-09	MW-25
		1HD2169-10	MW-26
		1HD2169-11	MW-32
		1HD2169-12	MW-33
		1HD2169-13	ACM Tile 1
		1HD2169-14	PECS-1
		1HE0082-MS1	1HD2169-10
		1HE0082-MSD1	1HD2169-10

Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1HE0236	1HE0236-BLK1	
		1HE0236-BS1	
		1HD2169-13	ACM Tile 1
		1HE0236-MSD1	1HE0312-02
		1HE0236-MS1	1HE0312-02
		1HE0236-PS1	1HE0312-02

Batch Quality Control Summary: Microbac Laboratories, Inc., Newton

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HE0082 - EPA 5030B - EPA 8260B										
Blank (1HE0082-BLK1)			Prepared: 05/01/24 00:00 Analyzed: 05/01/24 10:25							
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							

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HE0082 - EPA 5030B - EPA 8260B										
Blank (1HE0082-BLK1)				Prepared: 05/01/24 00:00 Analyzed: 05/01/24 10:25						
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	*46.9*		ug/L	*50.2*		*93.5*	*80-126*			
Surrogate: Dibromofluoromethane	*46.9*		ug/L	*50.2*		*93.5*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*47.1*		ug/L	*50.1*		*94.1*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*47.1*		ug/L	*50.1*		*94.1*	*61-142*			
Surrogate: Toluene-d8	*49.8*		ug/L	*50.4*		*98.8*	*87-116*			
Surrogate: Toluene-d8	*49.8*		ug/L	*50.4*		*98.8*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*50.8*		ug/L	*50.1*		*101*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*50.8*		ug/L	*50.1*		*101*	*80-116*			
LCS (1HE0082-BS1)				Prepared: 05/01/24 00:00 Analyzed: 05/01/24 09:17						
Chloromethane	23.07	1.0	ug/L	30.6		75.3	63-155			
Vinyl Chloride	24.40	1.0	ug/L	30.2		80.7	70-154			
Bromomethane	21.06	1.0	ug/L	28.8		73.1	52-176			
Chloroethane	31.59	1.0	ug/L	31.6		99.9	72-148			
Trichlorofluoromethane	30.46	1.0	ug/L	32.6		93.4	70-152			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HE0082 - EPA 5030B - EPA 8260B										
LCS (1HE0082-BS1)				Prepared: 05/01/24 00:00 Analyzed: 05/01/24 09:17						
1,1-Dichloroethylene	45.25	1.0	ug/L	50.0		90.5	70-148			
Acetone	86.96	10.0	ug/L	101		85.9	43-172			
Methyl Iodide	97.15	1.0	ug/L	102		95.4	69-170			
Carbon Disulfide	100.6	1.0	ug/L	103		98.0	72-162			
Methylene Chloride	47.89	5.0	ug/L	50.0		95.8	68-142			
Acrylonitrile	91.38	5.0	ug/L	100		91.1	67-144			
trans-1,2-Dichloroethylene	47.13	1.0	ug/L	50.0		94.3	66-148			
1,1-Dichloroethane	47.00	1.0	ug/L	50.0		94.0	66-143			
Vinyl Acetate	109.2	5.0	ug/L	100		109	43-153			
cis-1,2-Dichloroethylene	55.82	1.0	ug/L	50.0		112	71-149			
2-Butanone (MEK)	104.8	10.0	ug/L	102		103	52-159			
Bromochloromethane	47.94	1.0	ug/L	50.0		95.9	69-143			
Chloroform	46.45	1.0	ug/L	50.0		92.9	69-144			
1,1,1-Trichloroethane	45.92	1.0	ug/L	50.0		91.8	62-129			
Carbon Tetrachloride	46.30	1.0	ug/L	50.0		92.6	63-141			
Benzene	48.09	1.0	ug/L	50.0		96.2	71-134			
1,2-Dichloroethane	47.13	1.0	ug/L	50.0		94.3	72-132			
Trichloroethylene	48.63	1.0	ug/L	50.0		97.3	71-135			
1,2-Dichloropropane	49.06	1.0	ug/L	50.0		98.1	69-136			
Dibromomethane	49.62	1.0	ug/L	50.0		99.2	73-147			
Bromodichloromethane	48.11	1.0	ug/L	50.0		96.2	68-129			
cis-1,3-Dichloropropene	51.55	1.0	ug/L	50.0		103	65-134			
4-Methyl-2-pentanone (MIBK)	102.6	5.0	ug/L	100		103	58-147			
Toluene	47.13	1.0	ug/L	50.0		94.3	72-133			
trans-1,3-Dichloropropene	53.85	1.0	ug/L	50.0		108	67-130			
1,1,2-Trichloroethane	49.75	1.0	ug/L	50.0		99.5	69-135			
Tetrachloroethylene	48.85	1.0	ug/L	50.0		97.7	69-130			
2-Hexanone (MBK)	103.7	5.0	ug/L	99.3		104	55-144			
Dibromochloromethane	49.73	1.0	ug/L	50.0		99.5	73-127			
1,2-Dibromoethane	49.24	1.0	ug/L	50.0		98.5	67-132			
Chlorobenzene	48.91	1.0	ug/L	50.0		97.8	72-123			
1,1,1,2-Tetrachloroethane	51.06	1.0	ug/L	50.0		102	73-127			
Ethylbenzene	49.49	1.0	ug/L	50.0		99.0	71-127			
Xylenes, total	150.9	2.0	ug/L	150		101	74-127			
Styrene	50.69	1.0	ug/L	50.0		101	66-126			
Bromoform	49.74	1.0	ug/L	50.0		99.5	68-130			
1,2,3-Trichloropropane	49.56	1.0	ug/L	50.0		99.1	63-136			
trans-1,4-Dichloro-2-butene	80.98	5.0	ug/L	103		78.8	54-134			
1,1,2,2-Tetrachloroethane	46.98	1.0	ug/L	50.0		94.0	61-131			
1,4-Dichlorobenzene	48.25	1.0	ug/L	50.0		96.5	70-129			
1,2-Dichlorobenzene	49.91	1.0	ug/L	50.0		99.8	69-126			
1,2-Dibromo-3-chloropropane	49.12	5.0	ug/L	50.0		98.2	50-143			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HE0082 - EPA 5030B - EPA 8260B										
LCS (1HE0082-BS1)			Prepared: 05/01/24 00:00 Analyzed: 05/01/24 09:17							
Surrogate: Dibromofluoromethane	*46.8*		ug/L	*50.2*		*93.3*	*80-126*			
Surrogate: Dibromofluoromethane	*46.8*		ug/L	*50.2*		*93.3*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*47.0*		ug/L	*50.1*		*93.9*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*47.0*		ug/L	*50.1*		*93.9*	*61-142*			
Surrogate: Toluene-d8	*49.7*		ug/L	*50.4*		*98.6*	*87-116*			
Surrogate: Toluene-d8	*49.7*		ug/L	*50.4*		*98.6*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*51.1*		ug/L	*50.1*		*102*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*51.1*		ug/L	*50.1*		*102*	*80-116*			
LCS Dup (1HE0082-BSD1)			Prepared: 05/01/24 00:00 Analyzed: 05/01/24 09:40							
Chloromethane	22.11	1.0	ug/L	30.6		72.1	63-155	4.25	24	
Vinyl Chloride	23.37	1.0	ug/L	30.2		77.3	70-154	4.31	25	
Bromomethane	22.17	1.0	ug/L	28.8		77.0	52-176	5.14	27	
Chloroethane	30.08	1.0	ug/L	31.6		95.1	72-148	4.90	25	
Trichlorofluoromethane	29.19	1.0	ug/L	32.6		89.5	70-152	4.26	26	
1,1-Dichloroethylene	43.13	1.0	ug/L	50.0		86.3	70-148	4.80	24	
Acetone	82.63	10.0	ug/L	101		81.7	43-172	5.11	30	
Methyl Iodide	94.14	1.0	ug/L	102		92.4	69-170	3.15	30	
Carbon Disulfide	96.61	1.0	ug/L	103		94.1	72-162	4.06	24	
Methylene Chloride	46.97	5.0	ug/L	50.0		93.9	68-142	1.94	21	
Acrylonitrile	87.00	5.0	ug/L	100		86.7	67-144	4.91	24	
trans-1,2-Dichloroethylene	45.73	1.0	ug/L	50.0		91.5	66-148	3.02	27	
1,1-Dichloroethane	45.54	1.0	ug/L	50.0		91.1	66-143	3.16	24	
Vinyl Acetate	100.2	5.0	ug/L	100		100	43-153	8.67	30	
cis-1,2-Dichloroethylene	53.81	1.0	ug/L	50.0		108	71-149	3.67	26	
2-Butanone (MEK)	103.8	10.0	ug/L	102		102	52-159	0.863	27	
Bromochloromethane	46.46	1.0	ug/L	50.0		92.9	69-143	3.14	23	
Chloroform	45.10	1.0	ug/L	50.0		90.2	69-144	2.95	23	
1,1,1-Trichloroethane	44.50	1.0	ug/L	50.0		89.0	62-129	3.14	24	
Carbon Tetrachloride	45.45	1.0	ug/L	50.0		90.9	63-141	1.85	25	
Benzene	46.81	1.0	ug/L	50.0		93.6	71-134	2.70	24	
1,2-Dichloroethane	46.53	1.0	ug/L	50.0		93.1	72-132	1.28	24	
Trichloroethylene	47.40	1.0	ug/L	50.0		94.8	71-135	2.56	24	
1,2-Dichloropropane	47.93	1.0	ug/L	50.0		95.9	69-136	2.33	24	
Dibromomethane	49.05	1.0	ug/L	50.0		98.1	73-147	1.16	25	
Bromodichloromethane	47.43	1.0	ug/L	50.0		94.9	68-129	1.42	22	
cis-1,3-Dichloropropene	50.54	1.0	ug/L	50.0		101	65-134	1.98	23	
4-Methyl-2-pentanone (MIBK)	100.2	5.0	ug/L	100		100	58-147	2.41	27	
Toluene	45.97	1.0	ug/L	50.0		91.9	72-133	2.49	24	
trans-1,3-Dichloropropene	53.12	1.0	ug/L	50.0		106	67-130	1.36	24	
1,1,2-Trichloroethane	48.97	1.0	ug/L	50.0		97.9	69-135	1.58	23	
Tetrachloroethylene	47.19	1.0	ug/L	50.0		94.4	69-130	3.46	25	
2-Hexanone (MBK)	100.9	5.0	ug/L	99.3		102	55-144	2.72	25	
Dibromochloromethane	49.09	1.0	ug/L	50.0		98.2	73-127	1.30	22	

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HE0082 - EPA 5030B - EPA 8260B										
LCS Dup (1HE0082-BSD1)			Prepared: 05/01/24 00:00 Analyzed: 05/01/24 09:40							
1,2-Dibromoethane	48.39	1.0	ug/L	50.0		96.8	67-132	1.74	24	
Chlorobenzene	47.70	1.0	ug/L	50.0		95.4	72-123	2.50	23	
1,1,1,2-Tetrachloroethane	49.79	1.0	ug/L	50.0		99.6	73-127	2.52	24	
Ethylbenzene	47.99	1.0	ug/L	50.0		96.0	71-127	3.08	26	
Xylenes, total	146.5	2.0	ug/L	150		97.7	74-127	2.94	25	
Styrene	49.30	1.0	ug/L	50.0		98.6	66-126	2.78	23	
Bromoform	48.64	1.0	ug/L	50.0		97.3	68-130	2.24	23	
1,2,3-Trichloropropane	48.63	1.0	ug/L	50.0		97.3	63-136	1.89	24	
trans-1,4-Dichloro-2-butene	79.75	5.0	ug/L	103		77.6	54-134	1.53	27	
1,1,2,2-Tetrachloroethane	45.57	1.0	ug/L	50.0		91.1	61-131	3.05	29	
1,4-Dichlorobenzene	47.29	1.0	ug/L	50.0		94.6	70-129	2.01	24	
1,2-Dichlorobenzene	49.18	1.0	ug/L	50.0		98.4	69-126	1.47	26	
1,2-Dibromo-3-chloropropane	46.90	5.0	ug/L	50.0		93.8	50-143	4.62	30	
Surrogate: Dibromofluoromethane	*46.6*		ug/L	*50.2*		*92.9*	*80-126*			
Surrogate: Dibromofluoromethane	*46.6*		ug/L	*50.2*		*92.9*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*46.5*		ug/L	*50.1*		*92.8*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*46.5*		ug/L	*50.1*		*92.8*	*61-142*			
Surrogate: Toluene-d8	*49.7*		ug/L	*50.4*		*98.7*	*87-116*			
Surrogate: Toluene-d8	*49.7*		ug/L	*50.4*		*98.7*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*51.0*		ug/L	*50.1*		*102*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*51.0*		ug/L	*50.1*		*102*	*80-116*			
Matrix Spike (1HE0082-MS1)	**Source: 1HD2169-10**		Prepared: 05/01/24 00:00 Analyzed: 05/01/24 21:00							
Chloromethane	252.5	10.0	ug/L	306	ND	82.4	61-152			
Vinyl Chloride	237.4	10.0	ug/L	302	ND	78.5	66-149			
Bromomethane	244.5	10.0	ug/L	288	ND	84.9	43-171			
Chloroethane	281.9	10.0	ug/L	316	ND	89.1	69-148			
Trichlorofluoromethane	280.1	10.0	ug/L	326	ND	85.9	62-163			
1,1-Dichloroethylene	412.2	10.0	ug/L	500	ND	82.4	70-148			
Acetone	694.1	100	ug/L	1010	ND	68.6	45-173			
Methyl Iodide	656.2	10.0	ug/L	1020	ND	64.4	62-167			
Carbon Disulfide	971.2	10.0	ug/L	1030	ND	94.6	71-163			
Methylene Chloride	453.8	50.0	ug/L	500	ND	90.8	69-140			
Acrylonitrile	813.1	50.0	ug/L	1000	ND	81.0	58-151			
trans-1,2-Dichloroethylene	457.5	10.0	ug/L	500	ND	91.5	69-144			
1,1-Dichloroethane	451.6	10.0	ug/L	500	ND	90.3	70-138			
Vinyl Acetate	907.6	50.0	ug/L	1000	ND	90.8	58-142			
cis-1,2-Dichloroethylene	437.7	10.0	ug/L	500	ND	87.5	68-151			
2-Butanone (MEK)	936.8	100	ug/L	1020	ND	92.0	50-160			
Bromochloromethane	449.9	10.0	ug/L	500	ND	90.0	65-143			
Chloroform	444.3	10.0	ug/L	500	ND	88.9	71-143			
1,1,1-Trichloroethane	453.3	10.0	ug/L	500	ND	90.7	63-133			
Carbon Tetrachloride	474.1	10.0	ug/L	500	ND	94.8	63-142			
Benzene	476.0	10.0	ug/L	500	ND	95.2	69-133			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HE0082 - EPA 5030B - EPA 8260B										
Matrix Spike (1HE0082-MS1)	**Source: 1HD2169-10**	Prepared: 05/01/24 00:00 Analyzed: 05/01/24 21:00								
1,2-Dichloroethane	458.3	10.0	ug/L	500	ND	91.7	63-138			
Trichloroethylene	491.9	10.0	ug/L	500	ND	98.4	71-133			
1,2-Dichloropropane	478.1	10.0	ug/L	500	ND	95.6	69-132			
Dibromomethane	496.2	10.0	ug/L	500	ND	99.2	70-147			
Bromodichloromethane	483.3	10.0	ug/L	500	ND	96.7	67-130			
cis-1,3-Dichloropropene	495.1	10.0	ug/L	500	ND	99.0	61-126			
4-Methyl-2-pentanone (MIBK)	961.5	50.0	ug/L	1000	ND	96.1	55-147			
Toluene	469.5	10.0	ug/L	500	ND	93.9	71-133			
trans-1,3-Dichloropropene	522.6	10.0	ug/L	500	ND	105	63-124			
1,1,2-Trichloroethane	485.1	10.0	ug/L	500	ND	97.0	69-133			
Tetrachloroethylene	499.7	10.0	ug/L	500	ND	99.9	70-124			
2-Hexanone (MBK)	968.0	50.0	ug/L	993	ND	97.5	53-141			
Dibromochloromethane	497.6	10.0	ug/L	500	ND	99.5	74-122			
1,2-Dibromoethane	482.5	10.0	ug/L	500	ND	96.5	66-127			
Chlorobenzene	483.1	10.0	ug/L	500	ND	96.6	76-116			
1,1,1,2-Tetrachloroethane	506.4	10.0	ug/L	500	ND	101	77-121			
Ethylbenzene	493.8	10.0	ug/L	500	ND	98.8	73-124			
Xylenes, total	1495	20.0	ug/L	1500	ND	99.7	75-123			
Styrene	501.8	10.0	ug/L	500	ND	100	70-120			
Bromoform	484.9	10.0	ug/L	500	ND	97.0	70-124			
1,2,3-Trichloropropane	480.4	10.0	ug/L	500	ND	96.1	62-135			
trans-1,4-Dichloro-2-butene	778.6	50.0	ug/L	1030	ND	75.7	50-120			
1,1,2,2-Tetrachloroethane	445.9	10.0	ug/L	500	ND	89.2	63-126			
1,4-Dichlorobenzene	473.0	10.0	ug/L	500	ND	94.6	72-119			
1,2-Dichlorobenzene	489.0	10.0	ug/L	500	ND	97.8	71-117			
1,2-Dibromo-3-chloropropane	462.9	50.0	ug/L	500	ND	92.6	49-134			
Surrogate: Dibromofluoromethane	*459*		ug/L	*502*		*91.5*	*80-126*			
Surrogate: Dibromofluoromethane	*459*		ug/L	*502*		*91.5*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*456*		ug/L	*501*		*91.0*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*456*		ug/L	*501*		*91.0*	*61-142*			
Surrogate: Toluene-d8	*499*		ug/L	*504*		*99.0*	*87-116*			
Surrogate: Toluene-d8	*499*		ug/L	*504*		*99.0*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*508*		ug/L	*501*		*101*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*508*		ug/L	*501*		*101*	*80-116*			
Matrix Spike Dup (1HE0082-MSD1)	**Source: 1HD2169-10**	Prepared: 05/01/24 00:00 Analyzed: 05/01/24 21:23								
Chloromethane	237.2	10.0	ug/L	306	ND	77.4	61-152	6.25	26	
Vinyl Chloride	232.0	10.0	ug/L	302	ND	76.8	66-149	2.30	23	
Bromomethane	251.6	10.0	ug/L	288	ND	87.4	43-171	2.86	29	
Chloroethane	291.8	10.0	ug/L	316	ND	92.2	69-148	3.45	25	
Trichlorofluoromethane	290.6	10.0	ug/L	326	ND	89.1	62-163	3.68	25	
1,1-Dichloroethylene	423.8	10.0	ug/L	500	ND	84.8	70-148	2.78	22	
Acetone	792.5	100	ug/L	1010	ND	78.3	45-173	13.2	30	
Methyl Iodide	766.7	10.0	ug/L	1020	ND	75.3	62-167	15.5	24	

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HE0082 - EPA 5030B - EPA 8260B										
Matrix Spike Dup (1HE0082-MSD1)	**Source: 1HD2169-10**	Prepared: 05/01/24 00:00 Analyzed: 05/01/24 21:23								
Carbon Disulfide	926.2	10.0	ug/L	1030	ND	90.2	71-163	4.74	22	
Methylene Chloride	436.0	50.0	ug/L	500	ND	87.2	69-140	4.00	19	
Acrylonitrile	835.5	50.0	ug/L	1000	ND	83.3	58-151	2.72	15	
trans-1,2-Dichloroethylene	441.9	10.0	ug/L	500	ND	88.4	69-144	3.47	22	
1,1-Dichloroethane	431.0	10.0	ug/L	500	ND	86.2	70-138	4.67	20	
Vinyl Acetate	930.6	50.0	ug/L	1000	ND	93.1	58-142	2.50	24	
cis-1,2-Dichloroethylene	506.7	10.0	ug/L	500	ND	101	68-151	14.6	22	
2-Butanone (MEK)	987.7	100	ug/L	1020	ND	97.0	50-160	5.29	23	
Bromochloromethane	437.7	10.0	ug/L	500	ND	87.5	65-143	2.75	22	
Chloroform	428.0	10.0	ug/L	500	ND	85.6	71-143	3.74	21	
1,1,1-Trichloroethane	431.9	10.0	ug/L	500	ND	86.4	63-133	4.84	23	
Carbon Tetrachloride	456.0	10.0	ug/L	500	ND	91.2	63-142	3.89	22	
Benzene	461.6	10.0	ug/L	500	ND	92.3	69-133	3.07	18	
1,2-Dichloroethane	450.2	10.0	ug/L	500	ND	90.0	63-138	1.78	20	
Trichloroethylene	475.2	10.0	ug/L	500	ND	95.0	71-133	3.45	23	
1,2-Dichloropropane	463.4	10.0	ug/L	500	ND	92.7	69-132	3.12	20	
Dibromomethane	483.7	10.0	ug/L	500	ND	96.7	70-147	2.55	22	
Bromodichloromethane	465.2	10.0	ug/L	500	ND	93.0	67-130	3.82	21	
cis-1,3-Dichloropropene	482.8	10.0	ug/L	500	ND	96.6	61-126	2.52	21	
4-Methyl-2-pentanone (MIBK)	973.8	50.0	ug/L	1000	ND	97.3	55-147	1.27	23	
Toluene	454.3	10.0	ug/L	500	ND	90.9	71-133	3.29	19	
trans-1,3-Dichloropropene	508.7	10.0	ug/L	500	ND	102	63-124	2.70	21	
1,1,2-Trichloroethane	477.3	10.0	ug/L	500	ND	95.5	69-133	1.62	19	
Tetrachloroethylene	480.2	10.0	ug/L	500	ND	96.0	70-124	3.98	24	
2-Hexanone (MBK)	984.4	50.0	ug/L	993	ND	99.1	53-141	1.68	24	
Dibromochloromethane	479.7	10.0	ug/L	500	ND	95.9	74-122	3.66	21	
1,2-Dibromoethane	475.3	10.0	ug/L	500	ND	95.1	66-127	1.50	23	
Chlorobenzene	469.3	10.0	ug/L	500	ND	93.9	76-116	2.90	21	
1,1,1,2-Tetrachloroethane	491.8	10.0	ug/L	500	ND	98.4	77-121	2.93	25	
Ethylbenzene	478.3	10.0	ug/L	500	ND	95.7	73-124	3.19	20	
Xylenes, total	1457	20.0	ug/L	1500	ND	97.2	75-123	2.57	20	
Styrene	486.9	10.0	ug/L	500	ND	97.4	70-120	3.01	23	
Bromoform	469.4	10.0	ug/L	500	ND	93.9	70-124	3.25	22	
1,2,3-Trichloropropane	486.4	10.0	ug/L	500	ND	97.3	62-135	1.24	28	
trans-1,4-Dichloro-2-butene	782.3	50.0	ug/L	1030	ND	76.1	50-120	0.474	26	
1,1,2,2-Tetrachloroethane	441.8	10.0	ug/L	500	ND	88.4	63-126	0.924	24	
1,4-Dichlorobenzene	458.7	10.0	ug/L	500	ND	91.7	72-119	3.07	24	
1,2-Dichlorobenzene	480.9	10.0	ug/L	500	ND	96.2	71-117	1.67	24	
1,2-Dibromo-3-chloropropane	453.3	50.0	ug/L	500	ND	90.7	49-134	2.10	28	
Surrogate: Dibromofluoromethane	*449*		ug/L	*502*		*89.6*	*80-126*			
Surrogate: Dibromofluoromethane	*449*		ug/L	*502*		*89.6*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*451*		ug/L	*501*		*90.0*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*451*		ug/L	*501*		*90.0*	*61-142*			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HE0082 - EPA 5030B - EPA 8260B										
Matrix Spike Dup (1HE0082-MSD1)	**Source: 1HD2169-10**		Prepared: 05/01/24 00:00 Analyzed: 05/01/24 21:23							
Surrogate: Toluene-d8	*498*		ug/L	*504*		*98.9*	*87-116*			
Surrogate: Toluene-d8	*498*		ug/L	*504*		*98.9*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*510*		ug/L	*501*		*102*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*510*		ug/L	*501*		*102*	*80-116*			

Determination of Base/Neutral Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HE0018 - 3520C BNA Cont Liq - EPA 8270C										
Blank (1HE0018-BLK1)			Prepared: 05/01/24 09:45 Analyzed: 05/03/24 14:17							
Bis(2-Ethylhexyl) Phthalate	<6	6	ug/L							
Surrogate: Nitrobenzene-d5	*24.7*		ug/L	*30.0*		*82.2*	*29-130*			
Surrogate: 2-Fluorobiphenyl	*22.0*		ug/L	*28.8*		*76.5*	*23-113*			
Surrogate: Terphenyl-dl4	*35.2*		ug/L	*28.8*		*122*	*27-141*			
LCS (1HE0018-BS1)			Prepared: 05/01/24 09:45 Analyzed: 05/03/24 14:42							
Bis(2-Ethylhexyl) Phthalate	27.1	6	ug/L	25.0		108	33-184			
Surrogate: Nitrobenzene-d5	*27.6*		ug/L	*30.0*		*91.9*	*38-115*			
Surrogate: 2-Fluorobiphenyl	*28.7*		ug/L	*28.8*		*99.8*	*33-110*			
Surrogate: Terphenyl-dl4	*34.4*		ug/L	*28.8*		*119*	*30-142*			
LCS Dup (1HE0018-BSD1)			Prepared: 05/01/24 09:45 Analyzed: 05/03/24 15:06							
Bis(2-Ethylhexyl) Phthalate	28.2	6	ug/L	25.0		113	33-184	4.01	30	
Surrogate: Nitrobenzene-d5	*25.8*		ug/L	*30.0*		*85.9*	*38-115*			
Surrogate: 2-Fluorobiphenyl	*28.1*		ug/L	*28.8*		*97.5*	*33-110*			
Surrogate: Terphenyl-dl4	*35.4*		ug/L	*28.8*		*123*	*30-142*			

Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HE0016 - Wet Chem Preparation - EPA 376.2										
Blank (1HE0016-BLK1)			Prepared: 05/01/24 08:40 Analyzed: 05/01/24 10:26							
Sulfide, total	<0.10	0.10	mg/L							
LCS (1HE0016-BS1)			Prepared: 05/01/24 08:40 Analyzed: 05/01/24 10:26							
Sulfide, total	0.255	0.10	mg/L	0.31		80.9	59-110			
Matrix Spike (1HE0016-MS1)	**Source: 1HD2169-04**		Prepared: 05/01/24 08:40 Analyzed: 05/01/24 10:26							
Sulfide, total	0.373	0.10	mg/L	0.31	0.0740	94.8	50-150			
Matrix Spike Dup (1HE0016-MSD1)	**Source: 1HD2169-04**		Prepared: 05/01/24 08:40 Analyzed: 05/01/24 10:26							
Sulfide, total	0.373	0.10	mg/L	0.31	0.0740	94.8	50-150	0.00	30	

Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HE0031 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1HE0031-BLK1)			Prepared: 05/01/24 12:09 Analyzed: 05/02/24 23:16							
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							
Vanadium, total	<0.0200	0.0200	mg/L							
Zinc, total	<0.0200	0.0200	mg/L							
LCS (1HE0031-BS1)			Prepared: 05/01/24 12:09 Analyzed: 05/02/24 23:22							
Antimony, total	0.0935	0.0020	mg/L	0.100		93.5	80-120			
Arsenic, total	0.0935	0.0040	mg/L	0.100		93.5	80-120			
Barium, total	0.0992	0.0040	mg/L	0.100		99.2	80-120			
Beryllium, total	0.0947	0.0040	mg/L	0.100		94.7	80-120			
Cadmium, total	0.0947	0.0008	mg/L	0.100		94.7	80-120			
Chromium, total	0.0922	0.0080	mg/L	0.100		92.2	80-120			
Cobalt, total	0.0954	0.0004	mg/L	0.100		95.4	80-120			
Copper, total	0.0941	0.0040	mg/L	0.100		94.1	80-120			
Lead, total	0.0982	0.0040	mg/L	0.100		98.2	80-120			
Nickel, total	0.0943	0.0040	mg/L	0.100		94.3	80-120			
Selenium, total	0.0958	0.0040	mg/L	0.100		95.8	80-120			
Silver, total	0.0953	0.0040	mg/L	0.100		95.3	80-120			
Thallium, total	0.0971	0.0020	mg/L	0.100		97.1	80-120			
Vanadium, total	0.0964	0.0200	mg/L	0.100		96.4	80-120			
Zinc, total	0.0956	0.0200	mg/L	0.100		95.6	80-120			
Matrix Spike (1HE0031-MS1)	**Source: 1HD2169-01**		Prepared: 05/01/24 12:09 Analyzed: 05/02/24 23:46							
Antimony, total	0.0973	0.0020	mg/L	0.100	ND	97.3	75-125			
Arsenic, total	0.0989	0.0040	mg/L	0.100	0.0018	97.1	75-125			
Barium, total	0.215	0.0040	mg/L	0.100	0.110	106	75-125			
Beryllium, total	0.0968	0.0040	mg/L	0.100	ND	96.8	75-125			
Cadmium, total	0.0947	0.0008	mg/L	0.100	ND	94.7	75-125			
Chromium, total	0.0935	0.0080	mg/L	0.100	0.0008	92.7	75-125			
Cobalt, total	0.0986	0.0004	mg/L	0.100	ND	98.6	75-125			

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HE0031 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Matrix Spike (1HE0031-MS1)	**Source: 1HD2169-01**		Prepared: 05/01/24 12:09 Analyzed: 05/02/24 23:46							
Copper, total	0.0920	0.0040	mg/L	0.100	ND	92.0	75-125			
Lead, total	0.0962	0.0040	mg/L	0.100	ND	96.2	75-125			
Nickel, total	0.0961	0.0040	mg/L	0.100	ND	96.1	75-125			
Selenium, total	0.0953	0.0040	mg/L	0.100	ND	95.3	75-125			
Silver, total	0.0973	0.0040	mg/L	0.100	ND	97.3	75-125			
Thallium, total	0.0973	0.0020	mg/L	0.100	0.0002	97.1	75-125			
Vanadium, total	0.102	0.0200	mg/L	0.100	ND	102	75-125			
Zinc, total	0.101	0.0200	mg/L	0.100	ND	101	75-125			
Matrix Spike Dup (1HE0031-MSD1)	**Source: 1HD2169-01**		Prepared: 05/01/24 12:09 Analyzed: 05/02/24 23:52							
Antimony, total	0.0962	0.0020	mg/L	0.100	ND	96.2	75-125	1.05	20	
Arsenic, total	0.0961	0.0040	mg/L	0.100	0.0018	94.3	75-125	2.87	20	
Barium, total	0.213	0.0040	mg/L	0.100	0.110	103	75-125	1.02	20	
Beryllium, total	0.0946	0.0040	mg/L	0.100	ND	94.6	75-125	2.36	20	
Cadmium, total	0.0931	0.0008	mg/L	0.100	ND	93.1	75-125	1.78	20	
Chromium, total	0.0914	0.0080	mg/L	0.100	0.0008	90.6	75-125	2.34	20	
Cobalt, total	0.0960	0.0004	mg/L	0.100	ND	96.0	75-125	2.73	20	
Copper, total	0.0893	0.0040	mg/L	0.100	ND	89.3	75-125	2.99	20	
Lead, total	0.0943	0.0040	mg/L	0.100	ND	94.3	75-125	2.04	20	
Nickel, total	0.0935	0.0040	mg/L	0.100	ND	93.5	75-125	2.75	20	
Selenium, total	0.0953	0.0040	mg/L	0.100	ND	95.3	75-125	0.00252	20	
Silver, total	0.0951	0.0040	mg/L	0.100	ND	95.1	75-125	2.27	20	
Thallium, total	0.0954	0.0020	mg/L	0.100	0.0002	95.1	75-125	2.02	20	
Vanadium, total	0.0997	0.0200	mg/L	0.100	ND	99.7	75-125	2.07	20	
Zinc, total	0.0987	0.0200	mg/L	0.100	ND	98.7	75-125	2.70	20	
Post Spike (1HE0031-PS1)	**Source: 1HD2169-01**		Prepared: 05/01/24 12:09 Analyzed: 05/02/24 23:58							
Antimony, total	0.0782		mg/L	0.0800	0.0001	97.5	80-120			
Arsenic, total	0.0789		mg/L	0.0800	0.0018	96.5	80-120			
Barium, total	0.186		mg/L	0.0800	0.108	97.8	80-120			
Beryllium, total	0.0778		mg/L	0.0800	0.000002	97.2	80-120			
Cadmium, total	0.0739		mg/L	0.0800	0.00005	92.4	80-120			
Chromium, total	0.0769		mg/L	0.0800	0.0008	95.2	80-120			
Cobalt, total	0.0793		mg/L	0.0800	0.00003	99.1	80-120			
Copper, total	0.0747		mg/L	0.0800	0.0003	93.0	80-120			
Lead, total	0.0785		mg/L	0.0800	0.0001	98.0	80-120			
Nickel, total	0.0771		mg/L	0.0800	0.0007	95.4	80-120			
Selenium, total	0.0762		mg/L	0.0800	-0.00007	95.2	80-120			
Silver, total	0.0791		mg/L	0.0800	0.0001	98.8	80-120			
Thallium, total	0.0801		mg/L	0.0800	0.0002	99.8	80-120			
Vanadium, total	0.0849		mg/L	0.0800	0.0060	98.6	80-120			
Zinc, total	0.0812		mg/L	0.0800	0.0098	89.2	80-120			
Batch 1HE0236 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1HE0236-BLK1)			Prepared: 05/06/24 09:31 Analyzed: 05/07/24 00:09							

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HE0236 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1HE0236-BLK1)			Prepared: 05/06/24 09:31 Analyzed: 05/07/24 00:09							
Arsenic, total	<0.0040	0.0040	mg/L							
LCS (1HE0236-BS1)			Prepared: 05/06/24 09:31 Analyzed: 05/07/24 00:15							
Arsenic, total	0.101	0.0040	mg/L	0.100		101	80-120			
Matrix Spike (1HE0236-MS1)		**Source: 1HE0312-02**	Prepared: 05/06/24 09:31 Analyzed: 05/07/24 12:53							
Arsenic, total	0.0968	0.0040	mg/L	0.100	0.0021	94.7	75-125			
Matrix Spike Dup (1HE0236-MSD1)		**Source: 1HE0312-02**	Prepared: 05/06/24 09:31 Analyzed: 05/07/24 00:39							
Arsenic, total	0.103	0.0040	mg/L	0.100	0.0021	101	75-125	6.28	20	
Post Spike (1HE0236-PS1)		**Source: 1HE0312-02**	Prepared: 05/06/24 09:31 Analyzed: 05/07/24 12:59							
Arsenic, total	0.0858		mg/L	0.0800	0.0021	105	80-120			

Definitions

I-05:	Sample received at laboratory past hold time for this analyte.
O-05:	This sample was extracted outside of the EPA recommended holding time.
RL:	Reporting Limit
RPD:	Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler   Temp: 0.0°C

Cooler Inspection Checklist

Custody Seals	No	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Confirmed	No
Received On Ice	Yes		

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. ***The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.***

Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
05/23/24 15:08

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES
A Microbac Company

600 East 17th Street South
Newton, IA 50208
641-792-8451

1 H D 2 1 6 9
HLW Engineering
PM: Heather Murphy

www.keystonelabs.com

SITE INFORMATION
Sampler: TODD WHIPPLE
Project: Fayette Co. Landfill-New Regs
6040

REPORT TO
Todd Whipple
HLW Engineering
PO Box 314
Story City, IA 50248

Joan Swenka
Fayette County Landfill
10275 Kornhill Road
Fayette, IA 52142

SPECIAL INSTRUCTIONS
None

Turn Around Time
☐ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY
Work Order 1HD2169
Temperature 0.0
Turn-Cooler: No

☐ Custody Seal
☑ Containers Intact
☑ COC/Labels Agree
☐ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	MW-12	Water	GRAB	4/22/24	9:25	7	lndfill-app1-voc-group lndfl-app1-metals-6020	01
-001	MW-21	Water	GRAB	4/22/24	10:25	7	lndfill-app1-voc-group lndfl-app1-metals-6020	02
-001	MW-17	Water	GRAB	4/22/24	10:43	7	lndfill-app1-voc-group lndfl-app1-metals-6020	03
-001	MW-5	Water	GRAB	4/22/24	10:01	8	lndfill-app1-voc-group lndfl-app1-metals-6020 sulf-t-376.2-regen	04
-001	MW-7	Water	GRAB	4/22/24	12:27	7	lndfill-app1-voc-group lndfl-app1-metals-6020	05
-001	MW-9	Water	GRAB	4/22/24	13:36	7	lndfill-app1-voc-group lndfl-app1-metals-6020	06
-001	MW-16	Water	GRAB	4/22/24	11:47	7	lndfill-app1-voc-group lndfl-app1-metals-6020	07

Relinquished By [signature] Date/Time 4/24/24

Received By Date/Time

Relinquished By Date/Time

Received for Lab By [signature] Date/Time 4/24/24 10:16

Remarks:

Original - Lab Copy Yellow - Sampler Copy

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES
A Microbac Company
600 East 17th Street So
Newton, IA 50208
641-792-8451

1 H D 2 1 6 9
HLW Engineering
PM: Heather Murphy

Printed: 3/4/2024 10:55:20A
www.keystonelabs.com

SITE INFORMATION

Sampler: TODD WHIPPLE

Project: Fayette Co. Landfill-New Regs
6040

REPORT TO

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

Joan Swenka
Fayette County Landfill
10275 Kornhill Road
Fayette, IA 52142

SPECIAL INSTRUCTIONS

None

Turn Around Time
☐ Standard ☐ RUSH, need by __/__/__

LAB USE ONLY

Work Order: 1HD2169
Temperature: 0.0
Turn-Cooler: No

- ☐ Custody Seal
- ☒ Containers Intact
- ☒ COC/Labels Agree
- ☐ Preservation Confirmed
- ☑ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	MW-24	Water	GRAB	4/22/24	12:43	7	lndfill-app1-voc-group; lndfll-app1-metals-6020	08
-001	MW-25	Water	GRAB	4/22/24	12:04	7	lndfill-app1-voc-group; lndfll-app1-metals-6020	09
-001	MW-26	Water	GRAB	4/22/24	11:30	7	lndfill-app1-voc-group; lndfll-app1-metals-6020	10
-001	MW-32	Water	GRAB	4/22/24	13:17	7	lndfill-app1-voc-group; lndfll-app1-metals-6020	11
-001	MW-33	Water	GRAB	4/22/24	13:01	8	8270-110; lndfill-app1-voc-group; lndfll-app1-metals-6020	12
-001	ACM Tile 1	Water	GRAB	4/22/24	11:20	7	as-t-6020; lndfill-app1-voc-group	13
-001	PECS-1	Water	GRAB	4/22/24	11:13	6	lndfill-app1-voc-group	14

Relinquished By: [signature] Date/Time: 4/24/24

Received By: Date/Time:

Relinquished By: Date/Time:

Received for Lab By: Maher Date/Time: 4/24/24 10:16

Remarks:

Original - Lab Copy Yellow - Sampler Copy

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES
A Microbac Company

600 East 17th Street So
Newton, IA 50208
641-792-8451

1 H D 2 1 6 9
HLW Engineering
PM: Heather Murphy

Printed: 3/4/2024 10:55:20A
www.keystonelabs.com

SITE INFORMATION

Sampler: TODDWHIPPLE

Project: Fayette Co. Landfill-New Regs
6040

REPORT TO

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

Joan Swenka
Fayette County Landfill
10275 Kornhill Road
Fayette, IA 52142

SPECIAL INSTRUCTIONS

None

Turn Around Time
☐ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order: 1HD2169
Temperature: 0.0
Turn-Cooler: No

☐ Custody Seal
☒ Containers Intact
☒ COC/Labels Agree
☐ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	Duplicate	Water	GRAB	4/22/24	✓	1	~~lndfill-app1-voc-group~~ lndfll-app1-metals-6020	15

Relinquished By: [signature] Date/Time: 4/24/24

Received By: Date/Time:

Relinquished By: Date/Time:

Received for Lab By: Maher Date/Time: 4/24/24 10:16

Remarks:

Original - Lab Copy Yellow - Sampler Copy

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1077

Project Description

6040

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Tisdale

Heather Tisdale

Customer Relationship Specialist

Friday, October 25, 2024

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., Newton. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

600 East 17th Street South | Newton, IA 50208 | 641-792-8451 p | www.microbac.com

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1077

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: 6040

Project / PO Number: N/A
Received: 10/09/2024
Reported: 10/25/2024

Sample Summary Report

Sample Name	Laboratory ID	Client Matrix	Sample Type	Sample Begin	Sample Taken	Lab Received
MW-12	1HJ1077-01	Aqueous	GRAB		10/07/24 11:00	10/09/24 10:10
MW-21	1HJ1077-02	Aqueous	GRAB		10/07/24 10:45	10/09/24 10:10
MW-17	1HJ1077-03	Aqueous	GRAB		10/07/24 10:25	10/09/24 10:10
MW-5	1HJ1077-04	Aqueous	GRAB		10/07/24 11:35	10/09/24 10:10
MW-7	1HJ1077-05	Aqueous	GRAB		10/07/24 12:18	10/09/24 10:10
MW-9	1HJ1077-06	Aqueous	GRAB		10/07/24 13:13	10/09/24 10:10
MW-16	1HJ1077-07	Aqueous	GRAB		10/07/24 09:20	10/09/24 10:10
MW-25	1HJ1077-08	Aqueous	GRAB		10/07/24 12:03	10/09/24 10:10
MW-26	1HJ1077-09	Aqueous	GRAB		10/07/24 09:42	10/09/24 10:10
MW-32	1HJ1077-10	Aqueous	GRAB		10/07/24 12:46	10/09/24 10:10
PECS-1	1HJ1077-11	Aqueous	GRAB		10/07/24 10:05	10/09/24 10:10
Duplicate	1HJ1077-12	Aqueous	GRAB		10/07/24 00:00	10/09/24 10:10

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1077

Analytical Testing Parameters

Client Sample ID:	MW-12		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-01	**Collection Date:**	10/07/2024 11:00

Analyses Performed by: Microbac Laboratories, Inc., Newton

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		10/15/24 0000	10/16/24 0022	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Acetone	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/14/24 0000	10/14/24 1742	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Chloroform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Benzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Toluene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1077

Client Sample ID:	MW-12		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-01	**Collection Date:**	10/07/2024 11:00

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Styrene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Bromoform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0022	CSM
Surrogate: Dibromofluoromethane	103	Limit: 57-134	% Rec	1		10/14/24 0000	10/14/24 1742	CSM
Surrogate: Dibromofluoromethane	108	Limit: 75-136	% Rec	1		10/15/24 0000	10/16/24 0022	CSM
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 53-140	% Rec	1		10/14/24 0000	10/14/24 1742	CSM
Surrogate: 1,2-Dichloroethane-d4	108	Limit: 61-142	% Rec	1		10/15/24 0000	10/16/24 0022	CSM
Surrogate: Toluene-d8	100	Limit: 86-114	% Rec	1		10/14/24 0000	10/14/24 1742	CSM
Surrogate: Toluene-d8	99.7	Limit: 82-121	% Rec	1		10/15/24 0000	10/16/24 0022	CSM
Surrogate: 4-Bromofluorobenzene	99.6	Limit: 80-116	% Rec	1		10/15/24 0000	10/16/24 0022	CSM
Surrogate: 4-Bromofluorobenzene	104	Limit: 78-121	% Rec	1		10/14/24 0000	10/14/24 1742	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1714	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1714	RVV
Barium, total	**0.113**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1714	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1714	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/14/24 1603	10/15/24 1714	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/14/24 1603	10/15/24 1714	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/14/24 1603	10/15/24 1714	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1714	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1714	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1714	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1714	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1714	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1714	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1714	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1714	RVV

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1077

Client Sample ID:	MW-21		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-02	**Collection Date:**	10/07/2024 10:45

Analyses Performed by: Microbac Laboratories, Inc., Newton

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		10/14/24 1603	10/15/24 1739	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1739	RVV
Barium, total	**0.208**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1739	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1739	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/14/24 1603	10/15/24 1739	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/14/24 1603	10/15/24 1739	RVV
Cobalt, total	**0.0029**	0.0004	mg/L	4		10/14/24 1603	10/15/24 1739	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1739	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1739	RVV
Nickel, total	**0.0116**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1739	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1739	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1739	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1739	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1739	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1739	RVV

CERTIFICATE OF ANALYSIS

1HJ1077

Client Sample ID:	MW-17		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-03	**Collection Date:**	10/07/2024 10:25

Analyses Performed by: Microbac Laboratories, Inc., Newton

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		10/15/24 0000	10/16/24 0045	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Acetone	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/14/24 0000	10/14/24 1805	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Chloroform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Benzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Toluene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Styrene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Bromoform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM

Client Sample ID:	MW-17		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-03	**Collection Date:**	10/07/2024 10:25

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0045	CSM
Surrogate: Dibromofluoromethane	107	Limit: 75-136	% Rec	1		10/15/24 0000	10/16/24 0045	CSM
Surrogate: Dibromofluoromethane	102	Limit: 57-134	% Rec	1		10/14/24 0000	10/14/24 1805	CSM
Surrogate: 1,2-Dichloroethane-d4	109	Limit: 61-142	% Rec	1		10/15/24 0000	10/16/24 0045	CSM
Surrogate: 1,2-Dichloroethane-d4	103	Limit: 53-140	% Rec	1		10/14/24 0000	10/14/24 1805	CSM
Surrogate: Toluene-d8	99.7	Limit: 82-121	% Rec	1		10/15/24 0000	10/16/24 0045	CSM
Surrogate: Toluene-d8	99.4	Limit: 86-114	% Rec	1		10/14/24 0000	10/14/24 1805	CSM
Surrogate: 4-Bromofluorobenzene	98.1	Limit: 80-116	% Rec	1		10/15/24 0000	10/16/24 0045	CSM
Surrogate: 4-Bromofluorobenzene	107	Limit: 78-121	% Rec	1		10/14/24 0000	10/14/24 1805	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1757	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1757	RVV
Barium, total	**0.0976**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1757	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1757	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/14/24 1603	10/15/24 1757	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/14/24 1603	10/15/24 1757	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/14/24 1603	10/15/24 1757	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1757	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1757	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1757	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1757	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1757	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1757	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1757	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1757	RVV

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1077

Client Sample ID:	MW-5		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-04	**Collection Date:**	10/07/2024 11:35

Analyses Performed by: Microbac Laboratories Inc., - Marietta, OH

Volatile Organic Compounds by GCMS	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA RSK-175			**Method Notes:** A8, H1					
Methane	**1520**	25.0	ug/L	5	**D3**	10/22/24 1401	10/22/24 1801	KJB
Ethene	<5.00	5.00	ug/L	1		10/22/24 1401	10/22/24 1526	KJB
Ethane	<5.00	5.00	ug/L	1		10/22/24 1401	10/22/24 1526	KJB

Analyses Performed by: Microbac Laboratories, Inc., Newton

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		10/15/24 0000	10/16/24 0108	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Chloroethane	**6.1**	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Acetone	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/14/24 0000	10/14/24 1827	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
1,1-Dichloroethane	**2.2**	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
cis-1,2-Dichloroethylene	**1.1**	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Chloroform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Benzene	**5.2**	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Toluene	**2.3**	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM

Client Sample ID:	MW-5			
Sample Matrix:	Aqueous		**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-04		**Collection Date:**	10/07/2024 11:35

Determination of Volatile Organic Compounds	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Chlorobenzene	**1.0**	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Styrene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Bromoform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0108	CSM
Surrogate: Dibromofluoromethane	103	Limit: 57-134	% Rec	1		10/14/24 0000	10/14/24 1827	CSM
Surrogate: Dibromofluoromethane	107	Limit: 75-136	% Rec	1		10/15/24 0000	10/16/24 0108	CSM
Surrogate: 1,2-Dichloroethane-d4	105	Limit: 53-140	% Rec	1		10/14/24 0000	10/14/24 1827	CSM
Surrogate: 1,2-Dichloroethane-d4	107	Limit: 61-142	% Rec	1		10/15/24 0000	10/16/24 0108	CSM
Surrogate: Toluene-d8	102	Limit: 86-114	% Rec	1		10/14/24 0000	10/14/24 1827	CSM
Surrogate: Toluene-d8	100	Limit: 82-121	% Rec	1		10/15/24 0000	10/16/24 0108	CSM
Surrogate: 4-Bromofluorobenzene	105	Limit: 78-121	% Rec	1		10/14/24 0000	10/14/24 1827	CSM
Surrogate: 4-Bromofluorobenzene	97.8	Limit: 80-116	% Rec	1		10/15/24 0000	10/16/24 0108	CSM

Determination of Conventional Chemistry Parameters	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
2320B								
Alkalinity, as CaCO3	**138**	10	mg/L	1			10/14/24 1236	BSS
EPA 376.2								
Sulfide, total	**0.28**	0.10	mg/L	1		10/14/24 1555	10/14/24 1702	AKK
SM 4500 H+ B								
pH	**6.3**	0.5	pH	1	**H4**	10/16/24 1235	10/16/24 1305	BSS

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		10/14/24 1603	10/15/24 1803	RVV
Arsenic, total	**0.0106**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1803	RVV
Barium, total	**0.608**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1803	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1803	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/14/24 1603	10/15/24 1803	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/14/24 1603	10/15/24 1803	RVV
Cobalt, total	**0.0014**	0.0004	mg/L	4		10/14/24 1603	10/15/24 1803	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1803	RVV

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1077

Client Sample ID:	MW-5		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-04	**Collection Date:**	10/07/2024 11:35

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Lead, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1803	RVV
Nickel, total	**0.0051**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1803	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1803	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1803	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1803	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1803	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1803	RVV

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1077

Client Sample ID:	MW-7		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-05	**Collection Date:**	10/07/2024 12:18

Analyses Performed by: Microbac Laboratories, Inc., Newton

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		10/15/24 0000	10/16/24 0130	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Acetone	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/14/24 0000	10/14/24 1850	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Chloroform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Benzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Toluene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Styrene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Bromoform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM

Client Sample ID:	MW-7		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-05	**Collection Date:**	10/07/2024 12:18

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0130	CSM
Surrogate: Dibromofluoromethane	107	Limit: 75-136	% Rec	1		10/15/24 0000	10/16/24 0130	CSM
Surrogate: Dibromofluoromethane	102	Limit: 57-134	% Rec	1		10/14/24 0000	10/14/24 1850	CSM
Surrogate: 1,2-Dichloroethane-d4	108	Limit: 61-142	% Rec	1		10/15/24 0000	10/16/24 0130	CSM
Surrogate: 1,2-Dichloroethane-d4	103	Limit: 53-140	% Rec	1		10/14/24 0000	10/14/24 1850	CSM
Surrogate: Toluene-d8	98.9	Limit: 86-114	% Rec	1		10/14/24 0000	10/14/24 1850	CSM
Surrogate: Toluene-d8	100	Limit: 82-121	% Rec	1		10/15/24 0000	10/16/24 0130	CSM
Surrogate: 4-Bromofluorobenzene	97.5	Limit: 80-116	% Rec	1		10/15/24 0000	10/16/24 0130	CSM
Surrogate: 4-Bromofluorobenzene	106	Limit: 78-121	% Rec	1		10/14/24 0000	10/14/24 1850	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1809	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1809	RVV
Barium, total	**0.0597**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1809	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1809	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/14/24 1603	10/15/24 1809	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/14/24 1603	10/15/24 1809	RVV
Cobalt, total	**0.0008**	0.0004	mg/L	4		10/14/24 1603	10/15/24 1809	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1809	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1809	RVV
Nickel, total	**0.0064**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1809	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1809	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1809	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1809	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1809	RVV
Zinc, total	**0.0395**	0.0200	mg/L	4		10/14/24 1603	10/15/24 1809	RVV

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1077

Client Sample ID:	MW-9		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-06	**Collection Date:**	10/07/2024 13:13

Analyses Performed by: Microbac Laboratories, Inc., Newton

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		10/15/24 0000	10/16/24 0153	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Acetone	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/14/24 0000	10/14/24 1912	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Chloroform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Benzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Toluene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Styrene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Bromoform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1077

Client Sample ID:	MW-9		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-06	**Collection Date:**	10/07/2024 13:13

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0153	CSM
Surrogate: Dibromofluoromethane	105	Limit: 57-134	% Rec	1		10/14/24 0000	10/14/24 1912	CSM
Surrogate: Dibromofluoromethane	106	Limit: 75-136	% Rec	1		10/15/24 0000	10/16/24 0153	CSM
Surrogate: 1,2-Dichloroethane-d4	107	Limit: 53-140	% Rec	1		10/14/24 0000	10/14/24 1912	CSM
Surrogate: 1,2-Dichloroethane-d4	107	Limit: 61-142	% Rec	1		10/15/24 0000	10/16/24 0153	CSM
Surrogate: Toluene-d8	101	Limit: 86-114	% Rec	1		10/14/24 0000	10/14/24 1912	CSM
Surrogate: Toluene-d8	99.3	Limit: 82-121	% Rec	1		10/15/24 0000	10/16/24 0153	CSM
Surrogate: 4-Bromofluorobenzene	105	Limit: 78-121	% Rec	1		10/14/24 0000	10/14/24 1912	CSM
Surrogate: 4-Bromofluorobenzene	98.9	Limit: 80-116	% Rec	1		10/15/24 0000	10/16/24 0153	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1815	RVV
Arsenic, total	**0.0051**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1815	RVV
Barium, total	**0.519**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1815	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1815	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/14/24 1603	10/15/24 1815	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/14/24 1603	10/15/24 1815	RVV
Cobalt, total	**0.0017**	0.0004	mg/L	4		10/14/24 1603	10/15/24 1815	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1815	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1815	RVV
Nickel, total	**0.0097**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1815	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1815	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1815	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1815	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1815	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1815	RVV

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1077

Client Sample ID:	MW-16		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-07	**Collection Date:**	10/07/2024 9:20

Analyses Performed by: Microbac Laboratories, Inc., Newton

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		10/15/24 0000	10/16/24 0216	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Acetone	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/14/24 0000	10/14/24 1935	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Chloroform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Benzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Toluene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Styrene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Bromoform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM

Client Sample ID:	MW-16		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-07	**Collection Date:**	10/07/2024 9:20

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0216	CSM
Surrogate: Dibromofluoromethane	108	Limit: 75-136	% Rec	1		10/15/24 0000	10/16/24 0216	CSM
Surrogate: Dibromofluoromethane	104	Limit: 57-134	% Rec	1		10/14/24 0000	10/14/24 1935	CSM
Surrogate: 1,2-Dichloroethane-d4	109	Limit: 61-142	% Rec	1		10/15/24 0000	10/16/24 0216	CSM
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 53-140	% Rec	1		10/14/24 0000	10/14/24 1935	CSM
Surrogate: Toluene-d8	99.6	Limit: 82-121	% Rec	1		10/15/24 0000	10/16/24 0216	CSM
Surrogate: Toluene-d8	102	Limit: 86-114	% Rec	1		10/14/24 0000	10/14/24 1935	CSM
Surrogate: 4-Bromofluorobenzene	97.2	Limit: 80-116	% Rec	1		10/15/24 0000	10/16/24 0216	CSM
Surrogate: 4-Bromofluorobenzene	105	Limit: 78-121	% Rec	1		10/14/24 0000	10/14/24 1935	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1821	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1821	RVV
Barium, total	**0.140**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1821	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1821	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/14/24 1603	10/15/24 1821	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/14/24 1603	10/15/24 1821	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/14/24 1603	10/15/24 1821	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1821	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1821	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1821	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1821	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1821	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1821	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1821	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1821	RVV

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1077

Client Sample ID:	MW-25			
Sample Matrix:	Aqueous		**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-08		**Collection Date:**	10/07/2024 12:03

Analyses Performed by: Microbac Laboratories, Inc., Newton

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		10/15/24 0000	10/16/24 0239	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Acetone	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/14/24 0000	10/14/24 1957	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Chloroform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Benzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Toluene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Styrene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Bromoform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM

Client Sample ID:	MW-25		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-08	**Collection Date:**	10/07/2024 12:03

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0239	CSM
Surrogate: Dibromofluoromethane	104	Limit: 57-134	% Rec	1		10/14/24 0000	10/14/24 1957	CSM
Surrogate: Dibromofluoromethane	107	Limit: 75-136	% Rec	1		10/15/24 0000	10/16/24 0239	CSM
Surrogate: 1,2-Dichloroethane-d4	105	Limit: 53-140	% Rec	1		10/14/24 0000	10/14/24 1957	CSM
Surrogate: 1,2-Dichloroethane-d4	107	Limit: 61-142	% Rec	1		10/15/24 0000	10/16/24 0239	CSM
Surrogate: Toluene-d8	100	Limit: 86-114	% Rec	1		10/14/24 0000	10/14/24 1957	CSM
Surrogate: Toluene-d8	98.7	Limit: 82-121	% Rec	1		10/15/24 0000	10/16/24 0239	CSM
Surrogate: 4-Bromofluorobenzene	106	Limit: 78-121	% Rec	1		10/14/24 0000	10/14/24 1957	CSM
Surrogate: 4-Bromofluorobenzene	99.0	Limit: 80-116	% Rec	1		10/15/24 0000	10/16/24 0239	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1827	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1827	RVV
Barium, total	**0.0356**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1827	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1827	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/14/24 1603	10/15/24 1827	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/14/24 1603	10/15/24 1827	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/14/24 1603	10/15/24 1827	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1827	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1827	RVV
Nickel, total	**0.0081**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1827	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1827	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1827	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1827	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1827	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1827	RVV

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1077

Client Sample ID:	MW-26		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-09	**Collection Date:**	10/07/2024 9:42

Analyses Performed by: Microbac Laboratories, Inc., Newton

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		10/15/24 0000	10/16/24 0301	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Acetone	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/14/24 0000	10/14/24 2020	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Chloroform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Benzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Toluene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Styrene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Bromoform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM

Client Sample ID:	MW-26		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-09	**Collection Date:**	10/07/2024 9:42

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0301	CSM
Surrogate: Dibromofluoromethane	103	Limit: 57-134	% Rec	1		10/14/24 0000	10/14/24 2020	CSM
Surrogate: Dibromofluoromethane	107	Limit: 75-136	% Rec	1		10/15/24 0000	10/16/24 0301	CSM
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 53-140	% Rec	1		10/14/24 0000	10/14/24 2020	CSM
Surrogate: 1,2-Dichloroethane-d4	108	Limit: 61-142	% Rec	1		10/15/24 0000	10/16/24 0301	CSM
Surrogate: Toluene-d8	101	Limit: 86-114	% Rec	1		10/14/24 0000	10/14/24 2020	CSM
Surrogate: Toluene-d8	99.8	Limit: 82-121	% Rec	1		10/15/24 0000	10/16/24 0301	CSM
Surrogate: 4-Bromofluorobenzene	104	Limit: 78-121	% Rec	1		10/14/24 0000	10/14/24 2020	CSM
Surrogate: 4-Bromofluorobenzene	97.3	Limit: 80-116	% Rec	1		10/15/24 0000	10/16/24 0301	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1834	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1834	RVV
Barium, total	**0.0410**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1834	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1834	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/14/24 1603	10/15/24 1834	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/14/24 1603	10/15/24 1834	RVV
Cobalt, total	**0.0118**	0.0004	mg/L	4		10/14/24 1603	10/15/24 1834	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1834	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1834	RVV
Nickel, total	**0.0087**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1834	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1834	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1834	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1834	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1834	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1834	RVV

MICROBAC

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1077

Client Sample ID:	MW-32		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-10	**Collection Date:**	10/07/2024 12:46

Analyses Performed by: Microbac Laboratories, Inc., Newton

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		10/15/24 0000	10/16/24 0324	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Acetone	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/14/24 0000	10/14/24 2042	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Chloroform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Benzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Toluene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Styrene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Bromoform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM

Client Sample ID:	MW-32		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-10	**Collection Date:**	10/07/2024 12:46

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0324	CSM
Surrogate: Dibromofluoromethane	103	Limit: 57-134	% Rec	1		10/14/24 0000	10/14/24 2042	CSM
Surrogate: Dibromofluoromethane	107	Limit: 75-136	% Rec	1		10/15/24 0000	10/16/24 0324	CSM
Surrogate: 1,2-Dichloroethane-d4	108	Limit: 61-142	% Rec	1		10/15/24 0000	10/16/24 0324	CSM
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 53-140	% Rec	1		10/14/24 0000	10/14/24 2042	CSM
Surrogate: Toluene-d8	98.8	Limit: 82-121	% Rec	1		10/15/24 0000	10/16/24 0324	CSM
Surrogate: Toluene-d8	99.9	Limit: 86-114	% Rec	1		10/14/24 0000	10/14/24 2042	CSM
Surrogate: 4-Bromofluorobenzene	97.4	Limit: 80-116	% Rec	1		10/15/24 0000	10/16/24 0324	CSM
Surrogate: 4-Bromofluorobenzene	105	Limit: 78-121	% Rec	1		10/14/24 0000	10/14/24 2042	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1840	RVV
Arsenic, total	**0.0042**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1840	RVV
Barium, total	**0.326**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1840	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1840	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/14/24 1603	10/15/24 1840	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/14/24 1603	10/15/24 1840	RVV
Cobalt, total	**0.0004**	0.0004	mg/L	4		10/14/24 1603	10/15/24 1840	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1840	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1840	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1840	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1840	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1840	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1840	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1840	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1840	RVV

Client Sample ID:	PECS-1		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-11	**Collection Date:**	10/07/2024 10:05

Analyses Performed by: Microbac Laboratories, Inc., Newton

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		10/15/24 0000	10/16/24 0346	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Acetone	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/14/24 0000	10/14/24 2105	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Chloroform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Benzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Toluene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Styrene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Bromoform	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1077

Client Sample ID:	PECS-1		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-11	**Collection Date:**	10/07/2024 10:05

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/15/24 0000	10/16/24 0346	CSM
Surrogate: Dibromofluoromethane	104	Limit: 57-134	% Rec	1		10/14/24 0000	10/14/24 2105	CSM
Surrogate: Dibromofluoromethane	106	Limit: 75-136	% Rec	1		10/15/24 0000	10/16/24 0346	CSM
Surrogate: 1,2-Dichloroethane-d4	107	Limit: 61-142	% Rec	1		10/15/24 0000	10/16/24 0346	CSM
Surrogate: 1,2-Dichloroethane-d4	106	Limit: 53-140	% Rec	1		10/14/24 0000	10/14/24 2105	CSM
Surrogate: Toluene-d8	99.8	Limit: 86-114	% Rec	1		10/14/24 0000	10/14/24 2105	CSM
Surrogate: Toluene-d8	99.4	Limit: 82-121	% Rec	1		10/15/24 0000	10/16/24 0346	CSM
Surrogate: 4-Bromofluorobenzene	104	Limit: 78-121	% Rec	1		10/14/24 0000	10/14/24 2105	CSM
Surrogate: 4-Bromofluorobenzene	97.1	Limit: 80-116	% Rec	1		10/15/24 0000	10/16/24 0346	CSM

Client Sample ID:	Duplicate		
Sample Matrix:	Aqueous	**Collected By:**	Whipple, Todd
Lab Sample ID:	1HJ1077-12	**Collection Date:**	10/07/2024

Analyses Performed by: Microbac Laboratories, Inc., Newton

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		10/14/24 1603	10/15/24 1846	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1846	RVV
Barium, total	**0.141**	0.0040	mg/L	4		10/14/24 1603	10/15/24 1846	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1846	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/14/24 1603	10/15/24 1846	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/14/24 1603	10/15/24 1846	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/14/24 1603	10/15/24 1846	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1846	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1846	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1846	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1846	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/14/24 1603	10/15/24 1846	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/14/24 1603	10/15/24 1846	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1846	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/14/24 1603	10/15/24 1846	RVV

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
2320B	1HJ0795	1HJ0795-MSD1	1HJ0795-04
		1HJ0795-MS1	1HJ0795-04
		1HJ0795-BS1	
		1HJ0795-BLK1	
		1HJ1077-04	MW-5

Method	Batch	Laboratory ID	Client / Source ID
EPA 376.2	1HJ0832	1HJ1077-04	MW-5
		1HJ0832-MS1	1HJ1070-01
		1HJ0832-BLK1	
		1HJ0832-BS1	
		1HJ0832-MSD1	1HJ1070-01

Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1HJ0834	1HJ0834-BLK1	
		1HJ1077-01	MW-12
		1HJ0834-MS1	1HJ1077-01
		1HJ0834-MSD1	1HJ1077-01
		1HJ1077-02	MW-21
		1HJ1077-03	MW-17
		1HJ1077-04	MW-5
		1HJ1077-05	MW-7
		1HJ1077-06	MW-9
		1HJ1077-07	MW-16
		1HJ1077-08	MW-25
		1HJ1077-09	MW-26
		1HJ1077-10	MW-32
		1HJ1077-12	Duplicate
		1HJ0834-BS1	
		1HJ0834-MSD1	1HJ1077-01
		1HJ0834-PS1	1HJ1077-01

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260B	1HJ0887	1HJ0887-BS1	
		1HJ0887-BSD1	
		1HJ0887-BLK1	
		1HJ1077-01	MW-12
		1HJ1077-03	MW-17
		1HJ1077-04	MW-5
		1HJ1077-05	MW-7

EPA 8260B	1HJ0887	1HJ1077-06	MW-9
		1HJ1077-07	MW-16
		1HJ1077-08	MW-25
		1HJ1077-09	MW-26
		1HJ1077-10	MW-32
		1HJ1077-11	PECS-1
		1HJ0887-MS1	1HJ1076-07
		1HJ0887-MSD1	1HJ1076-07

Method	Batch	Laboratory ID	Client / Source ID
SM 4500 H+ B	1HJ0948	1HJ0948-DUP1	1HJ1025-01
		1HJ1077-04	MW-5
		1HJ0948-SRM1	
		1HJ0948-SRM2	

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260B	1HJ1039	1HJ1039-BS1	
		1HJ1039-BSD1	
		1HJ1039-BLK1	
		1HJ1077-01	MW-12
		1HJ1077-03	MW-17
		1HJ1077-04	MW-5
		1HJ1077-05	MW-7
		1HJ1077-06	MW-9
		1HJ1077-07	MW-16
		1HJ1077-08	MW-25
		1HJ1077-09	MW-26
		1HJ1077-10	MW-32
		1HJ1077-11	PECS-1

Method	Batch	Laboratory ID	Client / Source ID
EPA RSK-175	B4J1197	B4J1197-BLK1	
		B4J1197-BS1	
		B4J1197-BSD1	
		1HJ1077-04	MW-5
		1HJ1077-04RE1	MW-5

Batch Quality Control Summary: Microbac Laboratories, Inc., Newton

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ0887 - EPA 5030B - EPA 8260B										
Blank (1HJ0887-BLK1)			Prepared: 10/14/24 00:00 Analyzed: 10/14/24 14:43							
Acrylonitrile	<5.0	5.0	ug/L							

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ0887 - EPA 5030B - EPA 8260B										
Blank (1HJ0887-BLK1)			Prepared: 10/14/24 00:00 Analyzed: 10/14/24 14:43							
Surrogate: Dibromofluoromethane	*48.1*		ug/L	*50.2*		*95.8*	*57-134*			
Surrogate: 1,2-Dichloroethane-d4	*48.8*		ug/L	*50.4*		*96.9*	*53-140*			
Surrogate: Toluene-d8	*50.4*		ug/L	*50.5*		*99.8*	*86-114*			
Surrogate: 4-Bromofluorobenzene	*52.7*		ug/L	*50.2*		*105*	*78-121*			
LCS (1HJ0887-BS1)			Prepared: 10/14/24 00:00 Analyzed: 10/14/24 13:36							
Acrylonitrile	48.69	5.0	ug/L	50.2		97.0	56-135			
Surrogate: Dibromofluoromethane	*47.6*		ug/L	*50.2*		*94.8*	*57-134*			
Surrogate: 1,2-Dichloroethane-d4	*46.1*		ug/L	*50.4*		*91.5*	*53-140*			
Surrogate: Toluene-d8	*51.7*		ug/L	*50.5*		*102*	*86-114*			
Surrogate: 4-Bromofluorobenzene	*51.0*		ug/L	*50.2*		*102*	*78-121*			
LCS Dup (1HJ0887-BSD1)			Prepared: 10/14/24 00:00 Analyzed: 10/14/24 13:58							
Acrylonitrile	55.35	5.0	ug/L	50.2		110	56-135	12.8	16	
Surrogate: Dibromofluoromethane	*48.2*		ug/L	*50.2*		*95.9*	*57-134*			
Surrogate: 1,2-Dichloroethane-d4	*47.9*		ug/L	*50.4*		*95.2*	*53-140*			
Surrogate: Toluene-d8	*52.4*		ug/L	*50.5*		*104*	*86-114*			
Surrogate: 4-Bromofluorobenzene	*52.2*		ug/L	*50.2*		*104*	*78-121*			
Matrix Spike (1HJ0887-MS1)	**Source: 1HJ1076-07**		Prepared: 10/14/24 00:00 Analyzed: 10/15/24 07:50							
Acrylonitrile	589.9	50.0	ug/L	502	ND	118	38-147			
Surrogate: Dibromofluoromethane	*491*		ug/L	*502*		*97.7*	*57-134*			
Surrogate: 1,2-Dichloroethane-d4	*482*		ug/L	*504*		*95.6*	*53-140*			
Surrogate: Toluene-d8	*540*		ug/L	*505*		*107*	*86-114*			
Surrogate: 4-Bromofluorobenzene	*513*		ug/L	*502*		*102*	*78-121*			
Matrix Spike Dup (1HJ0887-MSD1)	**Source: 1HJ1076-07**		Prepared: 10/14/24 00:00 Analyzed: 10/15/24 08:12							
Acrylonitrile	549.3	50.0	ug/L	502	ND	109	38-147	7.13	30	
Surrogate: Dibromofluoromethane	*498*		ug/L	*502*		*99.3*	*57-134*			
Surrogate: 1,2-Dichloroethane-d4	*491*		ug/L	*504*		*97.5*	*53-140*			
Surrogate: Toluene-d8	*529*		ug/L	*505*		*105*	*86-114*			
Surrogate: 4-Bromofluorobenzene	*520*		ug/L	*502*		*104*	*78-121*			
Batch 1HJ1039 - EPA 5030B - EPA 8260B										
Blank (1HJ1039-BLK1)			Prepared: 10/15/24 00:00 Analyzed: 10/15/24 20:35							
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							

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1039 - EPA 5030B - EPA 8260B										
Blank (1HJ1039-BLK1)			Prepared: 10/15/24 00:00 Analyzed: 10/15/24 20:35							
Methylene Chloride	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	*54.2*		ug/L	*50.2*		*108*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*54.5*		ug/L	*50.4*		*108*	*61-142*			
Surrogate: Toluene-d8	*50.0*		ug/L	*50.5*		*99.1*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*49.8*		ug/L	*50.2*		*99.2*	*80-116*			
LCS (1HJ1039-BS1)			Prepared: 10/15/24 00:00 Analyzed: 10/15/24 19:27							

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1039 - EPA 5030B - EPA 8260B										
LCS (1HJ1039-BS1)		Prepared: 10/15/24 00:00 Analyzed: 10/15/24 19:27								
Chloromethane	25.10	1.0	ug/L	30.0		83.7	63-155			
Vinyl Chloride	25.69	1.0	ug/L	30.0		85.6	70-154			
Bromomethane	30.37	1.0	ug/L	30.0		101	52-176			
Chloroethane	30.50	1.0	ug/L	30.0		102	72-148			
Trichlorofluoromethane	28.84	1.0	ug/L	30.0		96.1	70-152			
1,1-Dichloroethylene	51.26	1.0	ug/L	50.0		103	70-148			
Acetone	100.5	10.0	ug/L	101		99.3	43-172			
Methyl Iodide	99.56	1.0	ug/L	102		97.7	69-170			
Carbon Disulfide	77.51	1.0	ug/L	103		75.5	72-162			
Methylene Chloride	54.31	5.0	ug/L	50.0		109	68-142			
trans-1,2-Dichloroethylene	51.34	1.0	ug/L	50.0		103	66-148			
1,1-Dichloroethane	51.42	1.0	ug/L	50.0		103	66-143			
Vinyl Acetate	107.5	5.0	ug/L	100		108	43-153			
cis-1,2-Dichloroethylene	50.35	1.0	ug/L	50.0		101	71-149			
2-Butanone (MEK)	102.4	10.0	ug/L	102		101	52-159			
Bromochloromethane	50.24	1.0	ug/L	50.0		100	69-143			
Chloroform	48.39	1.0	ug/L	50.0		96.8	69-144			
1,1,1-Trichloroethane	50.91	1.0	ug/L	50.0		102	62-129			
Carbon Tetrachloride	55.46	1.0	ug/L	50.0		111	63-141			
Benzene	47.01	1.0	ug/L	50.0		94.0	71-134			
1,2-Dichloroethane	46.63	1.0	ug/L	50.0		93.3	72-132			
Trichloroethylene	47.53	1.0	ug/L	50.0		95.1	71-135			
1,2-Dichloropropane	49.33	1.0	ug/L	50.0		98.7	69-136			
Dibromomethane	51.08	1.0	ug/L	50.0		102	73-147			
Bromodichloromethane	50.43	1.0	ug/L	50.0		101	68-129			
cis-1,3-Dichloropropene	49.01	1.0	ug/L	50.0		98.0	65-134			
4-Methyl-2-pentanone (MIBK)	101.4	5.0	ug/L	100		101	58-147			
Toluene	46.35	1.0	ug/L	50.0		92.7	72-133			
trans-1,3-Dichloropropene	49.60	1.0	ug/L	50.0		99.2	67-130			
1,1,2-Trichloroethane	49.48	1.0	ug/L	50.0		99.0	69-135			
Tetrachloroethylene	46.99	1.0	ug/L	50.0		94.0	69-130			
2-Hexanone (MBK)	99.10	5.0	ug/L	99.3		99.8	55-144			
Dibromochloromethane	50.25	1.0	ug/L	50.0		100	73-127			
1,2-Dibromoethane	48.60	1.0	ug/L	50.0		97.2	67-132			
Chlorobenzene	46.15	1.0	ug/L	50.0		92.3	72-123			
1,1,1,2-Tetrachloroethane	48.78	1.0	ug/L	50.0		97.6	73-127			
Ethylbenzene	47.48	1.0	ug/L	50.0		95.0	71-127			
Xylenes, total	144.9	2.0	ug/L	150		96.6	74-127			
Styrene	50.35	1.0	ug/L	50.0		101	66-126			
Bromoform	49.26	1.0	ug/L	50.0		98.5	68-130			
1,2,3-Trichloropropane	49.23	1.0	ug/L	50.0		98.5	63-136			
trans-1,4-Dichloro-2-butene	89.39	5.0	ug/L	103		87.0	54-134			
1,1,2,2-Tetrachloroethane	48.73	1.0	ug/L	50.0		97.5	61-131			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1039 - EPA 5030B - EPA 8260B										
LCS (1HJ1039-BS1)				Prepared: 10/15/24 00:00 Analyzed: 10/15/24 19:27						
1,4-Dichlorobenzene	45.51	1.0	ug/L	50.0		91.0	70-129			
1,2-Dichlorobenzene	47.44	1.0	ug/L	50.0		94.9	69-126			
1,2-Dibromo-3-chloropropane	50.84	5.0	ug/L	50.0		102	50-143			
Surrogate: Dibromofluoromethane	*53.0*		ug/L	*50.2*		*106*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*52.1*		ug/L	*50.4*		*103*	*61-142*			
Surrogate: Toluene-d8	*50.8*		ug/L	*50.5*		*101*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*50.4*		ug/L	*50.2*		*100*	*80-116*			
LCS Dup (1HJ1039-BSD1)				Prepared: 10/15/24 00:00 Analyzed: 10/15/24 19:50						
Chloromethane	25.83	1.0	ug/L	30.0		86.1	63-155	2.87	24	
Vinyl Chloride	26.40	1.0	ug/L	30.0		88.0	70-154	2.73	25	
Bromomethane	28.85	1.0	ug/L	30.0		96.2	52-176	5.13	27	
Chloroethane	30.99	1.0	ug/L	30.0		103	72-148	1.59	25	
Trichlorofluoromethane	29.27	1.0	ug/L	30.0		97.6	70-152	1.48	26	
1,1-Dichloroethylene	52.45	1.0	ug/L	50.0		105	70-148	2.29	24	
Acetone	98.82	10.0	ug/L	101		97.6	43-172	1.65	30	
Methyl Iodide	107.1	1.0	ug/L	102		105	69-170	7.31	30	
Carbon Disulfide	79.52	1.0	ug/L	103		77.4	72-162	2.56	24	
Methylene Chloride	55.03	5.0	ug/L	50.0		110	68-142	1.32	21	
trans-1,2-Dichloroethylene	52.47	1.0	ug/L	50.0		105	66-148	2.18	27	
1,1-Dichloroethane	52.40	1.0	ug/L	50.0		105	66-143	1.89	24	
Vinyl Acetate	110.8	5.0	ug/L	100		111	43-153	3.00	30	
cis-1,2-Dichloroethylene	51.05	1.0	ug/L	50.0		102	71-149	1.38	26	
2-Butanone (MEK)	101.5	10.0	ug/L	102		99.7	52-159	0.912	27	
Bromochloromethane	49.99	1.0	ug/L	50.0		100	69-143	0.499	23	
Chloroform	49.04	1.0	ug/L	50.0		98.1	69-144	1.33	23	
1,1,1-Trichloroethane	52.20	1.0	ug/L	50.0		104	62-129	2.50	24	
Carbon Tetrachloride	57.35	1.0	ug/L	50.0		115	63-141	3.35	25	
Benzene	47.58	1.0	ug/L	50.0		95.2	71-134	1.21	24	
1,2-Dichloroethane	46.60	1.0	ug/L	50.0		93.2	72-132	0.0644	24	
Trichloroethylene	48.22	1.0	ug/L	50.0		96.4	71-135	1.44	24	
1,2-Dichloropropane	49.14	1.0	ug/L	50.0		98.3	69-136	0.386	24	
Dibromomethane	50.80	1.0	ug/L	50.0		102	73-147	0.550	25	
Bromodichloromethane	50.60	1.0	ug/L	50.0		101	68-129	0.337	22	
cis-1,3-Dichloropropene	48.86	1.0	ug/L	50.0		97.7	65-134	0.307	23	
4-Methyl-2-pentanone (MIBK)	101.2	5.0	ug/L	100		101	58-147	0.198	27	
Toluene	46.91	1.0	ug/L	50.0		93.8	72-133	1.20	24	
trans-1,3-Dichloropropene	49.54	1.0	ug/L	50.0		99.1	67-130	0.121	24	
1,1,2-Trichloroethane	49.07	1.0	ug/L	50.0		98.1	69-135	0.832	23	
Tetrachloroethylene	47.89	1.0	ug/L	50.0		95.8	69-130	1.90	25	
2-Hexanone (MBK)	98.72	5.0	ug/L	99.3		99.4	55-144	0.384	25	
Dibromochloromethane	50.09	1.0	ug/L	50.0		100	73-127	0.319	22	
1,2-Dibromoethane	48.47	1.0	ug/L	50.0		96.9	67-132	0.268	24	

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1039 - EPA 5030B - EPA 8260B										
LCS Dup (1HJ1039-BSD1)			Prepared: 10/15/24 00:00 Analyzed: 10/15/24 19:50							
Chlorobenzene	46.74	1.0	ug/L	50.0		93.5	72-123	1.27	23	
1,1,1,2-Tetrachloroethane	49.20	1.0	ug/L	50.0		98.4	73-127	0.857	24	
Ethylbenzene	48.15	1.0	ug/L	50.0		96.3	71-127	1.40	26	
Xylenes, total	146.7	2.0	ug/L	150		97.8	74-127	1.19	25	
Styrene	50.94	1.0	ug/L	50.0		102	66-126	1.16	23	
Bromoform	49.18	1.0	ug/L	50.0		98.4	68-130	0.163	23	
1,2,3-Trichloropropane	49.25	1.0	ug/L	50.0		98.5	63-136	0.0406	24	
trans-1,4-Dichloro-2-butene	89.03	5.0	ug/L	103		86.6	54-134	0.404	27	
1,1,2,2-Tetrachloroethane	48.61	1.0	ug/L	50.0		97.2	61-131	0.247	29	
1,4-Dichlorobenzene	45.45	1.0	ug/L	50.0		90.9	70-129	0.132	24	
1,2-Dichlorobenzene	47.29	1.0	ug/L	50.0		94.6	69-126	0.317	26	
1,2-Dibromo-3-chloropropane	49.89	5.0	ug/L	50.0		99.8	50-143	1.89	30	
Surrogate: Dibromofluoromethane	*53.6*		ug/L	*50.2*		*107*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*52.3*		ug/L	*50.4*		*104*	*61-142*			
Surrogate: Toluene-d8	*50.7*		ug/L	*50.5*		*101*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*50.4*		ug/L	*50.2*		*100*	*80-116*			

Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ0795 - Wet Chem Preparation - 2320B										
Blank (1HJ0795-BLK1)			Prepared & Analyzed: 10/14/24 12:36							
Alkalinity, as CaCO3	<10	10	mg/L							
LCS (1HJ0795-BS1)			Prepared & Analyzed: 10/14/24 12:36							
Alkalinity, as CaCO3	50.3	10	mg/L	50.0		101	82-112			
Matrix Spike (1HJ0795-MS1)	**Source: 1HJ0795-04**		Prepared & Analyzed: 10/14/24 12:36							
Alkalinity, as CaCO3	210	10	mg/L	50.0	177	66.7	70-113			Q
Matrix Spike Dup (1HJ0795-MSD1)	**Source: 1HJ0795-04**		Prepared & Analyzed: 10/14/24 12:36							
Alkalinity, as CaCO3	211	10	mg/L	50.0	177	69.2	70-113	0.579	10	Q
Batch 1HJ0832 - Wet Chem Preparation - EPA 376.2										
Blank (1HJ0832-BLK1)			Prepared: 10/14/24 15:55 Analyzed: 10/14/24 17:02							
Sulfide, total	<0.10	0.10	mg/L							
LCS (1HJ0832-BS1)			Prepared: 10/14/24 15:55 Analyzed: 10/14/24 17:02							
Sulfide, total	0.339	0.10	mg/L	0.31		108	56-118			
Matrix Spike (1HJ0832-MS1)	**Source: 1HJ1070-01**		Prepared: 10/14/24 15:55 Analyzed: 10/14/24 17:02							
Sulfide, total	0.333	0.10	mg/L	0.31	ND	106	50-150			
Matrix Spike Dup (1HJ0832-MSD1)	**Source: 1HJ1070-01**		Prepared: 10/14/24 15:55 Analyzed: 10/14/24 17:02							
Sulfide, total	0.345	0.10	mg/L	0.31	ND	109	50-150	3.46	30	

Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ0948 - Wet Chem Preparation - SM 4500 H+ B										
Duplicate (1HJ0948-DUP1)		**Source: 1HJ1025-01**	Prepared: 10/16/24 12:35 Analyzed: 10/16/24 13:05							
pH	9.0	0.5	pH		9.0			0.0670	10	
Reference (1HJ0948-SRM1)			Prepared: 10/16/24 12:35 Analyzed: 10/16/24 13:05							
pH	6.9	0.5	pH	7.00		98.6	98.6-101.4			
Reference (1HJ0948-SRM2)			Prepared: 10/16/24 12:35 Analyzed: 10/16/24 13:05							
pH	6.9	0.5	pH	7.00		98.6	98.6-101.4			

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ0834 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1HJ0834-BLK1)			Prepared: 10/14/24 16:03 Analyzed: 10/15/24 17:02							
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							
Vanadium, total	<0.0200	0.0200	mg/L							
Zinc, total	<0.0200	0.0200	mg/L							
LCS (1HJ0834-BS1)			Prepared: 10/14/24 16:03 Analyzed: 10/16/24 11:38							
Antimony, total	0.0959	0.0020	mg/L	0.100		95.9	80-120			
Arsenic, total	0.0960	0.0040	mg/L	0.100		96.0	80-120			
Barium, total	0.107	0.0040	mg/L	0.100		107	80-120			
Beryllium, total	0.0991	0.0040	mg/L	0.100		99.1	80-120			
Cadmium, total	0.0943	0.0008	mg/L	0.100		94.3	80-120			
Chromium, total	0.102	0.0080	mg/L	0.100		102	80-120			
Cobalt, total	0.102	0.0004	mg/L	0.100		102	80-120			
Copper, total	0.104	0.0040	mg/L	0.100		104	80-120			
Lead, total	0.0877	0.0040	mg/L	0.100		87.7	80-120			
Nickel, total	0.101	0.0040	mg/L	0.100		101	80-120			
Selenium, total	0.0875	0.0040	mg/L	0.100		87.5	80-120			
Silver, total	0.0931	0.0040	mg/L	0.100		93.1	80-120			
Thallium, total	0.0876	0.0020	mg/L	0.100		87.6	80-120			
Vanadium, total	0.0981	0.0200	mg/L	0.100		98.1	80-120			

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ0834 - EPA 3005A Total Recoverable Metals - EPA 6020A										
LCS (1HJ0834-BS1)			Prepared: 10/14/24 16:03 Analyzed: 10/16/24 11:38							
Zinc, total	0.103	0.0200	mg/L	0.100		103	80-120			
Matrix Spike (1HJ0834-MS1)	**Source: 1HJ1077-01**		Prepared: 10/14/24 16:03 Analyzed: 10/15/24 17:20							
Antimony, total	0.0936	0.0020	mg/L	0.100	ND	93.6	75-125			
Arsenic, total	0.0903	0.0040	mg/L	0.100	0.0011	89.3	75-125			
Barium, total	0.212	0.0040	mg/L	0.100	0.113	98.7	75-125			
Beryllium, total	0.0963	0.0040	mg/L	0.100	ND	96.3	75-125			
Cadmium, total	0.0878	0.0008	mg/L	0.100	ND	87.8	75-125			
Chromium, total	0.0925	0.0080	mg/L	0.100	0.0006	92.5	75-125			
Cobalt, total	0.0953	0.0004	mg/L	0.100	0.0003	95.0	75-125			
Copper, total	0.0879	0.0040	mg/L	0.100	ND	87.9	75-125			
Lead, total	0.0903	0.0040	mg/L	0.100	ND	90.3	75-125			
Nickel, total	0.0929	0.0040	mg/L	0.100	0.0018	91.2	75-125			
Selenium, total	0.0850	0.0040	mg/L	0.100	ND	85.0	75-125			
Silver, total	0.0925	0.0040	mg/L	0.100	ND	92.5	75-125			
Thallium, total	0.0852	0.0020	mg/L	0.100	ND	85.2	75-125			
Vanadium, total	0.0935	0.0200	mg/L	0.100	ND	93.5	75-125			
Zinc, total	0.0990	0.0200	mg/L	0.100	ND	99.0	75-125			
Matrix Spike Dup (1HJ0834-MSD1)	**Source: 1HJ1077-01**		Prepared: 10/14/24 16:03 Analyzed: 10/16/24 11:44							
Antimony, total	0.0912	0.0020	mg/L	0.100	ND	91.2	75-125	2.64	20	
Arsenic, total	0.0899	0.0040	mg/L	0.100	0.0011	88.8	75-125	0.487	20	
Barium, total	0.213	0.0040	mg/L	0.100	0.113	99.7	75-125	0.457	20	
Beryllium, total	0.0976	0.0040	mg/L	0.100	ND	97.6	75-125	1.35	20	
Cadmium, total	0.0888	0.0008	mg/L	0.100	ND	88.8	75-125	1.09	20	
Chromium, total	0.0938	0.0080	mg/L	0.100	0.0006	93.8	75-125	1.37	20	
Cobalt, total	0.0942	0.0004	mg/L	0.100	0.0003	93.9	75-125	1.16	20	
Copper, total	0.0926	0.0040	mg/L	0.100	ND	92.6	75-125	5.27	20	
Lead, total	0.0839	0.0040	mg/L	0.100	ND	83.9	75-125	7.37	20	
Nickel, total	0.0904	0.0040	mg/L	0.100	0.0018	88.6	75-125	2.78	20	
Selenium, total	0.0830	0.0040	mg/L	0.100	ND	83.0	75-125	2.32	20	
Silver, total	0.111	0.0040	mg/L	0.100	ND	111	75-125	18.6	20	
Thallium, total	0.0847	0.0020	mg/L	0.100	ND	84.7	75-125	0.635	20	
Vanadium, total	0.0984	0.0200	mg/L	0.100	ND	98.4	75-125	5.11	20	
Zinc, total	0.0993	0.0200	mg/L	0.100	ND	99.3	75-125	0.321	20	
Post Spike (1HJ0834-PS1)	**Source: 1HJ1077-01**		Prepared: 10/14/24 16:03 Analyzed: 10/16/24 11:50							
Antimony, total	0.0725		mg/L	0.0800	0.0002	90.3	80-120			
Arsenic, total	0.0733		mg/L	0.0800	0.0010	90.4	80-120			
Barium, total	0.186		mg/L	0.0800	0.111	94.3	80-120			
Beryllium, total	0.0761		mg/L	0.0800	0.000009	95.1	80-120			
Cadmium, total	0.0718		mg/L	0.0800	0.00005	89.7	80-120			
Chromium, total	0.0733		mg/L	0.0800	0.0006	91.0	80-120			
Cobalt, total	0.0753		mg/L	0.0800	0.0003	93.8	80-120			
Copper, total	0.0740		mg/L	0.0800	0.0009	91.4	80-120			
Lead, total	0.0684		mg/L	0.0800	0.0000008	85.4	80-120			

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ0834 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Post Spike (1HJ0834-PS1)	**Source: 1HJ1077-01**		Prepared: 10/14/24 16:03 Analyzed: 10/16/24 11:50							
Nickel, total	0.0746		mg/L	0.0800	0.0017	91.1	80-120			
Selenium, total	0.0686		mg/L	0.0800	0.0006	85.0	80-120			
Silver, total	0.0705		mg/L	0.0800	0.00006	88.0	80-120			
Thallium, total	0.0679		mg/L	0.0800	0.0001	84.7	80-120			
Vanadium, total	0.0803		mg/L	0.0800	0.0042	95.1	80-120			
Zinc, total	0.0816		mg/L	0.0800	0.0113	87.9	80-120			

Batch Quality Control Summary: Microbac Laboratories Inc., - Marietta, OH

Volatile Organic Compounds by GCMS	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4J1197 - 5021 - EPA RSK-175										
Blank (B4J1197-BLK1)			Prepared: 10/22/24 14:01 Analyzed: 10/22/24 14:37							
Methane	<5.00	5.00	ug/L							
Ethene	<5.00	5.00	ug/L							
Ethane	<5.00	5.00	ug/L							
Propane	<5.00	5.00	ug/L							
LCS (B4J1197-BS1)			Prepared: 10/22/24 14:01 Analyzed: 10/22/24 14:50							
Methane	107	5.00	ug/L	114.1884		93.8	85-115			
Ethene	181	5.00	ug/L	199.6873		90.7	85-115			
Ethane	192	5.00	ug/L	213.9965		89.6	85-115			
Propane	271	5.00	ug/L	313.9185		86.3	85-115			
LCS Dup (B4J1197-BSD1)			Prepared: 10/22/24 14:01 Analyzed: 10/22/24 15:03							
Methane	110	5.00	ug/L	114.1884		96.3	85-115	2.65	40	
Ethene	184	5.00	ug/L	199.6873		92.3	85-115	1.74	40	
Ethane	195	5.00	ug/L	213.9965		91.0	85-115	1.51	40	
Propane	275	5.00	ug/L	313.9185		87.6	85-115	1.50	40	

Definitions

A8:	Sample was received in an improper container.
D3:	Dilution was performed due to high target analyte concentration.
H1:	Sample was received past holding time.
H4:	The test was performed outside of the EPA recommended holding time of 15 minutes.
MDL:	Minimum Detection Limit
Q:	One or more quality control criteria failed.
RL:	Reporting Limit
RPD:	Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler   Temp: 0.0ºC

Cooler Inspection Checklist

Custody Seals	No	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Confirmed	No
Received On Ice	Yes		

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. ***The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.***

Reviewed and Approved By:

Heather Tisdale

Heather Tisdale
Customer Relationship Specialist
10/25/24 14:52

CHAIN OF CU

MICROBAC®

600 East 17th Street So
Newton, IA 50208
641-792-8451

1 H J 1 0 7 7
HLW Engineering
PM: Heather Murphy

Printed: 9/30/2024 3:15:14P
www.keystonelabs.com

SITE INFORMATION

Sampler: TODD WHIPPLE
Project: Fayette Co. Landfill-New Regs 6040

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Joan Swenka
Fayette County Landfill
10275 Kornhill Road
Fayette, IA 52142

SPECIAL INSTRUCTIONS

None

Turn Around Time
☐ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order: 1HJ1077
Temperature: 0.0
Turn-Cooler: No

☐ Custody Seal
☒ Containers Intact
☒ COC/Labels Agree
☐ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	MW-12	Aqueous	GRAB	10/7/24	11:00	7	lndfill-appl-voc-group; lndfll-appl-metals-6020	01
-001	MW-21	Aqueous	GRAB	10/7/24	10:45	1	~~lndfill-appl-voc-group~~; lndfll-appl-metals-6020	02
-001	MW-17	Aqueous	GRAB	10/7/24	10:25	7	lndfill-appl-voc-group; lndfll-appl-metals-6020	03
-001	MW-5	Aqueous	GRAB	10/7/24	11:35	13	alk-caco3-2320; lndfll-appl-voc-group; indfill-appl-metals-6020; perngas-rsk-175; ph-4500; sulf-t-376.2-regen	04
-001	MW-7	Aqueous	GRAB	10/7/24	12:18	7	lndfill-appl-voc-group; lndfll-appl-metals-6020	05
-001	MW-9	Aqueous	GRAB	10/7/24	13:13	7	indfill-appl-voc-group; indfll-appl-metals-6020	06
-001	MW-16	Aqueous	GRAB	10/7/24	9:20	7	lndfill-appl-voc-group; indfll-appl-metals-6020	07

Relinquished By: Todd Whipple Date/Time: 10/9/24
Received By: Date/Time:

Relinquished By: Date/Time:
Received for Lab By: [signature] Date/Time: 10/9/2024 10:10 AM

Remarks:

Original - Lab Copy Yellow - Sampler Copy

MICROBAC®

CHAIN OF CU

600 East 17th Street So
Newton, IA 50208
641-792-8451

1 H J 1 0 7 7
HLW Engineering
PM: Heather Murphy

SITE INFORMATION

Sampler: TODD WHIPPLE

Project: Fayette Co. Landfill-New Regs
6040

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Joan Swenka
Fayette County Landfill
10275 Kornhill Road
Fayette, IA 52142

SPECIAL INSTRUCTIONS

None

Turn Around Time
☐ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order 1HJ1077
Temperature 0.0
Turn-Cooler: No

☐ Custody Seal
☒ Containers Intact
☐ COC/Labels Agree
☐ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses		Lab Sample Number
-001	MW-24 DRY	Aqueous	GRAB	10/7/24	—	0	lndfill-app1-voc-group	lndfill-app1-metals-6020	—
-001	MW-25	Aqueous	GRAB	10/7/24	12:03	7	lndfill-app1-voc-group	lndfill-app1-metals-6020	08
-001	MW-26	Aqueous	GRAB	10/7/24	9:42	7	lndfill-app1-voc-group	lndfill-app1-metals-6020	09
-001	MW-32	Aqueous	GRAB	10/7/24	12:46	7	lndfill-app1-voc-group	lndfill-app1-metals-6020	10
-001	MW-33 DRY	Aqueous	GRAB	10/7/24	—	0	lndfill-app1-voc-group	lndfill-app1-metals-6020	—
-001	ACM Tile 1 DRY	Aqueous	GRAB	10/7/24	—	0	as-t-6020	lndfill-app1-voc-group	—
-001	PECS-1	Aqueous	GRAB	10/7/24	10:05	6	lndfill-app1-voc-group		11

Relinquished By: Todd Whipple Date/Time: 10/9/24

Relinquished By: Date/Time:

Received By: Date/Time:

Received for Lab By: Date/Time: 10/10/2024 10:10 AM

Remarks:

Original - Lab Copy Yellow - Sampler Copy

CHAIN OF CUSTODY

MICROBAC®

600 East 17th Street South
Newton, IA 50208
641-792-8451

1HJ1077
HLW Engineering
PM: Heather Murphy

SITE INFORMATION

Sampler: TODD WHIPPLE

Project: Fayette Co. Landfill-New Regs
6040

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Joan Swenka
Fayette County Landfill
10275 Kornhill Road
Fayette, IA 52142

SPECIAL INSTRUCTIONS

None

Turn Around Time
☐ Standard ☐ RUSH, need by __/__/__

LAB USE ONLY

Work Order: 1HJ1077
Temperature: 0.0
Turn-Cooler: No

☐ Custody Seal
☒ Containers Intact
☒ COC/Labels Agree
☐ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	Duplicate	Aqueous	GRAB	10/7/24	✓	1	~~lndfll-app1-group~~ lndfll-app1-metals-6020	12

Relinquished By	Date/Time	Relinquished By	Date/Time
Todd Whipple	10/9/24	[signature]	
Received By	**Date/Time**	**Received for Lab By**	**Date/Time**
		[signature]	10/9/2024 10:10 AM

Remarks:

Original - Lab Copy Yellow - Sampler Copy

Appendix F

Summary Tables (IDNR Table 7)

Ongoing Prediction Limit Exceedances

Shallow Till/Fill System – MW-5

Well	Date	Compound	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	IAC 137 Statewide GWPS (ug/L)
MW5	10/11/16	Arsenic	28.8	4.0	15.354	34.196	10.0
MW5	4/13/17	Arsenic	22.0	4.0	15.807	27.693	10.0
MW5	10/25/17	Arsenic	27.0	4.0	18.475	29.625	10.0
MW5	4/11/18	Arsenic	13.2	4.0	14.532	30.968	10.0
MW5	10/16/18	Arsenic	37.5	4.0	12.997	36.853	10.0
MW5	4/17/19	Arsenic	27.1	4.0	14.474	37.926	10.0
MW5	10/15/19	Arsenic	59.3	4.0	11.423	57.127	10.0
MW5	4/6/20	Arsenic	28.5	4.0	20.614	55.586	10.0
MW5	10/13/20	Arsenic	30.0	4.0	18.076	54.374	10.0
MW5	4/12/2021	Arsenic	56.2	4.0	24.074	62.926	10.0
MW5	10/6/2021	Arsenic	17.9	4.0	13.996	52.304	10.0
MW5	4/15/2022	Arsenic	5.3	4.0	1.805	52.895	10.0
MW5	10/25/2022	Arsenic	9.1	4.0	0.000	49.558	10.0
MW5	4/3/2023	Arsenic	21.4	4.0	4.613	22.237	10.0
MW5	10/16/2023	Arsenic	13.7	4.0	4.226	20.524	10.0
MW5	4/22/2024	Arsenic	15.0	4.0	8.829	20.771	10.0
MW5	10/7/2024	Arsenic	10.6	4.0	9.832	20.518	10.0
MW5	10/11/16	Cobalt	1.0	0.8	0.000	14.575	2.8
MW5	4/13/17	Cobalt	7.3	0.8	0.000	11.299	2.8
MW5	10/25/17	Cobalt	0.8	0.8	0.000	11.339	2.8
MW5	4/11/18	Cobalt	1.3	0.8	0.000	6.294	2.8
MW5	10/16/18	Cobalt	<0.8	0.8	0.000	6.278	2.8
MW5	4/17/19	Cobalt	4.8	0.8	0.000	4.198	2.1
MW5	10/15/19	Cobalt	<0.8	0.8	0.000	4.187	2.1
MW5	4/6/20	Cobalt	0.6	0.8	0.000	4.101	2.1
MW5	10/13/20	Cobalt	0.9	0.8	0.000	4.137	2.1
MW5	4/12/2021	Cobalt	2.7	0.8	0.000	2.389	2.1
MW5	10/6/2021	Cobalt	0.5	0.8	0.000	2.387	2.1
MW5	4/15/2022	Cobalt	0.6	0.8	0.000	2.387	2.1
MW5	10/25/2022	Cobalt	0.5	0.8	0.000	2.351	2.1
MW5	4/3/2023	Cobalt	0.6	0.8	0.482	0.618	2.1
MW5	10/16/2023	Cobalt	0.9	0.8	0.446	0.854	2.1
MW5	4/22/2024	Cobalt	0.6	0.8	0.446	0.854	2.1
MW5	10/7/2024	Cobalt	1.4	0.7	0.431	1.319	2.1
MW5	10/20/15	1,1-dichloroethane	1.3	1.0	0.622	1.593	140.0
MW5	4/11/16	1,1-dichloroethane	<1.0	1.0	0.622	1.593	140.0
MW5	10/11/16	1,1-dichloroethane	<1.0	1.0	0.362	1.398	140.0
MW5	4/13/17	1,1-dichloroethane	<1.0	1.0	0.229	1.171	140.0
MW5	10/25/17	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0
MW5	4/11/18	1,1-dichloroethane	1.0	1.0	0.331	0.919	140.0
MW5	10/16/18	1,1-dichloroethane	<1.0	1.0	0.331	0.919	140.0
MW5	4/17/19	1,1-dichloroethane	<1.0	1.0	0.331	0.919	140.0
MW5	10/15/19	1,1-dichloroethane	<1.0	1.0	0.331	0.919	140.0
MW5	4/6/20	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0
MW5	10/13/20	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0
MW5	4/12/2021	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0
MW5	10/6/2021	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0
MW5	4/15/2022	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0
MW5	10/25/2022	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0
MW5	4/3/2023	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0
MW5	10/16/2023	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0
MW5	4/22/2024	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0

MW5	10/7/2024	1,1-dichloroethane	2.2	1.0	0.000	1.925	140.0
MW5	10/20/15	1,4-dichlorobenzene	<1.0	1.0	0.500	0.500	75.0
MW5	4/11/16	1,4-dichlorobenzene	<1.0	1.0	0.500	0.500	75.0
MW5	10/11/16	1,4-dichlorobenzene	<1.0	1.0	0.500	0.500	75.0
MW5	4/13/17	1,4-dichlorobenzene	<1.0	1.0	0.500	0.500	75.0
MW5	10/25/17	1,4-dichlorobenzene	<1.0	1.0	0.500	0.500	75.0
MW5	4/11/18	1,4-dichlorobenzene	1.1	1.0	0.297	1.003	75.0
MW5	10/16/18	1,4-dichlorobenzene	<1.0	1.0	0.297	1.003	75.0
MW5	4/17/19	1,4-dichlorobenzene	<1.0	1.0	0.297	1.003	75.0
MW5	10/15/19	1,4-dichlorobenzene	<1.0	1.0	0.297	1.003	75.0
MW5	4/6/20	1,4-dichlorobenzene	<1.0	1.0	0.500	0.500	75.0
MW5	10/13/20	1,4-dichlorobenzene	<1.0	1.0	0.500	0.500	75.0
MW5	4/12/2021	1,4-dichlorobenzene	<1.0	1.0	0.500	0.500	75.0
MW5	10/6/2021	1,4-dichlorobenzene	1.0	1.0	0.331	0.919	75.0
MW5	4/15/2022	1,4-dichlorobenzene	1.0	1.0	0.410	1.090	75.0
MW5	10/25/2022	1,4-dichlorobenzene	<1.0	1.0	0.410	1.090	75.0
MW5	4/3/2023	1,4-dichlorobenzene	<1.0	1.0	0.410	1.090	75.0
MW5	10/16/2023	1,4-dichlorobenzene	<1.0	1.0	0.331	0.919	75.0
MW5	4/22/2024	1,4-dichlorobenzene	<1.0	1.0	0.500	0.500	75.0
MW5	10/7/2024	1,4-dichlorobenzene	<1.0	1.0	0.500	0.500	75.0
MW5	10/20/15	2-butanone	<5.0	5.0	2.500	2.500	4,000.0
MW5	4/11/16	2-butanone	<5.0	5.0	2.500	2.500	4,000.0
MW5	10/11/16	2-butanone	<5.0	5.0	2.500	2.500	4,000.0
MW5	4/13/17	2-butanone	<5.0	5.0	2.500	2.500	4,000.0
MW5	10/25/17	2-butanone	<5.0	5.0	2.500	2.500	4,000.0
MW5	4/11/18	2-butanone	28.0	5.0	0.000	24.277	4,000.0
MW5	10/16/18	2-butanone	<5.0	5.0	0.000	24.277	4,000.0
MW5	4/17/19	2-butanone	<5.0	5.0	0.000	23.873	4,000.0
MW5	10/15/19	2-butanone	<5.0	5.0	0.000	23.873	4,000.0
MW5	4/6/20	2-butanone	<5.0	5.0	2.500	2.500	4,000.0
MW5	10/13/20	2-butanone	<5.0	5.0	2.500	2.500	4,000.0
MW5	4/12/2021	2-butanone	<5.0	5.0	2.500	2.500	4,000.0
MW5	10/6/2021	2-butanone	<5.0	5.0	2.500	2.500	4,000.0
MW5	4/15/2022	2-butanone	28.4	5.0	0.000	24.208	4,000.0
MW5	10/25/2022	2-butanone	<5.0	5.0	0.000	24.208	4,000.0
MW5	4/3/2023	2-butanone	<5.0	10.0	0.000	24.208	4,000.0
MW5	10/16/2023	2-butanone	<5.0	10.0	0.000	24.208	4,000.0
MW5	4/22/2024	2-butanone	<5.0	10.0	5.000	5.000	4,000.0
MW5	10/7/2024	2-butanone	<5.0	10.0	5.000	5.000	4,000.0
MW5	10/20/15	Acetone	<10.0	10.0	5.0	5.0	6,300.0
MW5	4/11/16	Acetone	<10.0	10.0	5.0	5.0	6,300.0
MW5	10/11/16	Acetone	<10.0	10.0	5.0	5.0	6,300.0
MW5	4/13/17	Acetone	<10.0	10.0	5.0	5.0	6,300.0
MW5	10/25/17	Acetone	<10.0	10.0	5.0	5.0	6,300.0
MW5	4/11/18	Acetone	1690.	10.0	0.000	1417.273	6,300.0
MW5	10/16/18	Acetone	<10.0	10.0	0.000	1417.273	6,300.0
MW5	4/17/19	Acetone	<10.0	10.0	0.000	1417.273	6,300.0
MW5	10/15/19	Acetone	<10.0	10.0	0.000	1417.273	6,300.0
MW5	4/6/20	Acetone	<10.0	10.0	5.000	5.000	6,300.0
MW5	10/13/20	Acetone	<10.0	10.0	5.000	5.000	6,300.0
MW5	4/12/2021	Acetone	14.8	10.0	1.686	13.214	6,300.0
MW5	10/6/2021	Acetone	<10.0	10.0	1.686	13.214	6,300.0
MW5	4/15/2022	Acetone	751	10.0	0.000	630.818	6,300.0
MW5	10/25/2022	Acetone	<10.0	10.0	0.000	630.818	6,300.0
MW5	4/3/2023	Acetone	<10.0	10.0	0.000	630.818	6,300.0
MW5	10/16/2023	Acetone	<10.0	10.0	0.000	630.818	6,300.0
MW5	4/22/2024	Acetone	<10.0	10.0	5.000	5.000	6,300.0

MW5	10/7/2024	Acetone	<10.0	10.0	5.000	5.000	6,300.0
MW5	10/20/15	Benzene	6.7	1.0	6.316	7.164	5.0
MW5	4/11/16	Benzene	4.6	1.0	4.876	7.524	5.0
MW5	10/11/16	Benzene	5.7	1.0	4.698	7.397	5.0
MW5	4/13/17	Benzene	4.7	1.0	4.267	6.583	5.0
MW5	10/25/17	Benzene	6.2	1.0	4.384	6.216	5.0
MW5	4/11/18	Benzene	8.7	1.0	4.323	8.237	5.0
MW5	10/16/18	Benzene	5.9	1.0	4.399	8.351	5.0
MW5	4/17/19	Benzene	6.6	1.0	5.361	8.339	5.0
MW5	10/15/19	Benzene	5.6	1.0	5.056	8.344	5.0
MW5	4/6/20	Benzene	5.6	1.0	5.370	6.480	5.0
MW5	10/13/20	Benzene	6.3	1.0	5.430	6.620	5.0
MW5	4/12/2021	Benzene	5.7	1.0	5.404	6.196	5.0
MW5	10/6/2021	Benzene	4.5	1.0	4.634	6.407	5.0
MW5	4/15/2022	Benzene	6.0	1.0	4.697	6.553	5.0
MW5	10/25/2022	Benzene	5.4	1.0	4.638	6.162	5.0
MW5	4/3/2023	Benzene	6.5	1.0	4.588	6.612	5.0
MW5	10/16/2023	Benzene	4.5	1.0	4.588	6.612	5.0
MW5	4/22/2024	Benzene	3.7	1.0	3.609	6.441	5.0
MW5	10/7/2024	Benzene	5.2	1.0	3.579	6.371	5.0
MW5	10/20/15	Bis(2-EH)phthalate	8.0	6.0	---	---	6.0
MW5	4/11/16	Bis(2-EH)phthalate	<10.0	6.0	3.986	7.514	6.0
MW5	10/11/16	Bis(2-EH)phthalate	<10.0	6.0	3.986	7.514	6.0
MW5	4/13/17	Bis(2-EH)phthalate	<6.0	6.0	3.986	7.514	6.0
MW5	10/25/17	Bis(2-EH)phthalate	<6.0	6.0	3.000	3.000	6.0
MW5	4/11/18	Bis(2-EH)phthalate	<6.0	6.0	3.000	3.000	6.0
MW5	10/16/18	Bis(2-EH)phthalate	<6.0	6.0	3.000	3.000	6.0
MW5	4/17/19	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW5	10/15/19	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW5	4/6/20	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW5	10/13/20	Bis(2-EH)phthalate	<6.0	6.0	3.000	3.000	6.0
MW5	4/12/2021	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW5	10/6/2021	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW5	4/15/2022	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW5	10/25/2022	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW5	4/3/2023	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW5	10/16/2023	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW5	4/22/2024	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW5	10/7/2024	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW5	10/20/15	Chlorobenzene	<1.0	1.0	0.625	1.645	100.0
MW5	4/11/16	Chlorobenzene	<1.0	1.0	0.342	1.488	100.0
MW5	10/11/16	Chlorobenzene	<1.0	1.0	0.182	1.288	100.0
MW5	4/13/17	Chlorobenzene	<1.0	1.0	0.500	0.500	100.0
MW5	10/25/17	Chlorobenzene	1.3	1.0	0.229	1.171	100.0
MW5	4/11/18	Chlorobenzene	1.8	1.0	0.273	1.777	100.0
MW5	10/16/18	Chlorobenzene	<1.0	1.0	0.273	1.777	100.0
MW5	4/17/19	Chlorobenzene	<1.0	1.0	0.273	1.777	100.0
MW5	10/15/19	Chlorobenzene	1.0	1.0	0.228	1.672	100.0
MW5	4/6/20	Chlorobenzene	<1.0	1.0	0.331	0.919	100.0
MW5	10/13/20	Chlorobenzene	1.0	1.0	0.410	1.090	100.0
MW5	4/12/2021	Chlorobenzene	<1.0	1.0	0.410	1.090	100.0
MW5	10/6/2021	Chlorobenzene	1.1	1.0	0.398	1.152	100.0
MW5	4/15/2022	Chlorobenzene	1.5	1.0	0.541	1.509	100.0
MW5	10/25/2022	Chlorobenzene	1.1	1.0	0.565	1.535	100.0
MW5	4/3/2023	Chlorobenzene	1.1	1.0	0.965	1.435	100.0
MW5	10/16/2023	Chlorobenzene	1.0	1.0	0.914	1.436	100.0
MW5	4/22/2024	Chlorobenzene	<1.0	1.0	0.587	1.263	100.0

MW5	10/7/2024	Chlorobenzene	1.0	1.0	0.581	1.219	100.0
MW5	10/20/15	Chloroethane	6.8	1.0	5.708	9.917	2,800.0
MW5	4/11/16	Chloroethane	7.2	1.0	5.984	8.191	2,800.0
MW5	10/11/16	Chloroethane	7.2	1.0	6.616	8.134	2,800.0
MW5	4/13/17	Chloroethane	6.0	1.0	6.135	7.465	2,800.0
MW5	10/25/17	Chloroethane	5.0	1.0	5.100	7.600	2,800.0
MW5	4/11/18	Chloroethane	6.3	1.0	5.058	7.192	2,800.0
MW5	10/16/18	Chloroethane	2.8	1.0	3.162	6.888	2,800.0
MW5	4/17/19	Chloroethane	5.5	1.0	3.137	6.663	2,800.0
MW5	10/15/19	Chloroethane	3.5	1.0	2.589	6.461	2,800.0
MW5	4/6/20	Chloroethane	4.9	1.0	2.714	5.636	2,800.0
MW5	10/13/20	Chloroethane	4.2	1.0	3.507	5.543	2,800.0
MW5	4/12/2021	Chloroethane	4.2	1.0	3.528	4.872	2,800.0
MW5	10/6/2021	Chloroethane	3.2	1.0	3.302	4.948	2,800.0
MW5	4/15/2022	Chloroethane	3.2	1.0	3.021	4.379	2,800.0
MW5	10/25/2022	Chloroethane	3.8	1.0	3.024	4.176	2,800.0
MW5	4/3/2023	Chloroethane	5.6	1.0	2.614	5.286	2,800.0
MW5	10/16/2023	Chloroethane	4.0	1.0	2.945	5.355	2,800.0
MW5	4/22/2024	Chloroethane	4.1	1.0	3.403	5.347	2,800.0
MW5	10/7/2024	Chloroethane	6.1	1.0	3.703	6.197	2,800.0
MW5	10/20/15	Cis-1,2 dichloroethene	1.9	1.0	1.908	2.162	70.0
MW5	4/11/16	Cis-1,2 dichloroethene	1.6	1.0	1.650	2.140	70.0
MW5	10/11/16	Cis-1,2 dichloroethene	1.6	1.0	1.529	2.031	70.0
MW5	4/13/17	Cis-1,2 dichloroethene	1.6	1.0	1.499	1.851	70.0
MW5	10/25/17	Cis-1,2 dichloroethene	1.5	1.0	1.516	1.634	70.0
MW5	4/11/18	Cis-1,2 dichloroethene	2.4	1.0	1.282	2.268	70.0
MW5	10/16/18	Cis-1,2 dichloroethene	<1.0	1.0	0.584	2.416	70.0
MW5	4/17/19	Cis-1,2 dichloroethene	1.3	1.0	0.507	2.343	70.0
MW5	10/15/19	Cis-1,2 dichloroethene	<1.0	1.0	0.117	2.233	70.0
MW5	4/6/20	Cis-1,2 dichloroethene	<1.0	1.0	0.229	1.171	70.0
MW5	10/13/20	Cis-1,2 dichloroethene	1.2	1.0	0.363	1.387	70.0
MW5	4/12/2021	Cis-1,2 dichloroethene	<1.0	1.0	0.263	1.087	70.0
MW5	10/6/2021	Cis-1,2 dichloroethene	1.6	1.0	0.309	1.591	70.0
MW5	4/15/2022	Cis-1,2 dichloroethene	1.5	1.0	0.616	1.784	70.0
MW5	10/25/2022	Cis-1,2 dichloroethene	1.8	1.0	0.667	2.033	70.0
MW5	4/3/2023	Cis-1,2 dichloroethene	1.8	1.0	1.499	1.851	70.0
MW5	10/16/2023	Cis-1,2 dichloroethene	1.6	1.0	1.499	1.851	70.0
MW5	4/22/2024	Cis-1,2 dichloroethene	1.1	1.0	1.186	1.964	70.0
MW5	10/7/2024	Cis-1,2 dichloroethene	1.1	1.0	0.981	1.819	70.0
MW5	10/20/15	Ethylbenzene	<1.0	1.0	0.000	16.769	700.0
MW5	4/11/16	Ethylbenzene	<1.0	1.0	0.000	13.146	700.0
MW5	10/11/16	Ethylbenzene	<1.0	1.0	0.000	12.988	700.0
MW5	4/13/17	Ethylbenzene	<1.0	1.0	0.500	0.500	700.0
MW5	10/25/17	Ethylbenzene	1.2	1.0	0.263	1.087	700.0
MW5	4/11/18	Ethylbenzene	23.0	1.0	0.000	19.402	700.0
MW5	10/16/18	Ethylbenzene	<1.0	1.0	0.000	19.402	700.0
MW5	4/17/19	Ethylbenzene	2.9	1.0	0.000	19.581	700.0
MW5	10/15/19	Ethylbenzene	<1.0	1.0	0.000	19.557	700.0
MW5	4/6/20	Ethylbenzene	<1.0	1.0	0.000	2.512	700.0
MW5	10/13/20	Ethylbenzene	<1.0	1.0	0.000	2.512	700.0
MW5	4/12/2021	Ethylbenzene	5.1	1.0	0.000	4.355	700.0
MW5	10/6/2021	Ethylbenzene	<1.0	1.0	0.000	4.355	700.0
MW5	4/15/2022	Ethylbenzene	11.9	1.0	0.000	10.839	700.0
MW5	10/25/2022	Ethylbenzene	2.7	1.0	0.000	10.858	700.0
MW5	4/3/2023	Ethylbenzene	<1.0	1.0	0.000	10.291	700.0
MW5	10/16/2023	Ethylbenzene	<1.0	1.0	0.000	10.291	700.0
MW5	4/22/2024	Ethylbenzene	<1.0	1.0	0.000	2.344	700.0

MW5	10/7/2024	Ethylbenzene	<1.0	1.0	0.500	0.500	700.0
MW5	10/20/15	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW5	4/11/16	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW5	10/11/16	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW5	4/13/17	Vinyl Chloride	1.1	1.0	0.297	1.003	2.0
MW5	10/25/17	Vinyl Chloride	<1.0	1.0	0.297	1.003	2.0
MW5	4/11/18	Vinyl Chloride	<1.0	1.0	0.297	1.003	2.0
MW5	10/16/18	Vinyl Chloride	<1.0	1.0	0.297	1.003	2.0
MW5	4/17/19	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW5	10/15/19	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW5	4/6/20	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW5	10/13/20	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW5	4/12/2021	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW5	10/6/2021	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW5	4/15/2022	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW5	10/25/2022	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW5	4/3/2023	Vinyl Chloride	1.2	1.0	0.263	1.087	2.0
MW5	10/16/2023	Vinyl Chloride	<1.0	1.0	0.263	1.087	2.0
MW5	4/22/2024	Vinyl Chloride	<1.0	1.0	0.263	1.087	2.0
MW5	10/7/2024	Vinyl Chloride	<1.0	1.0	0.263	1.087	2.0
MW5	10/20/15	Xylenes	<2.0	2.0	1.0	1.0	10,000.0
MW5	4/11/16	Xylenes	<2.0	2.0	1.0	1.0	10,000.0
MW5	10/11/16	Xylenes	<2.0	2.0	1.0	1.0	10,000.0
MW5	4/13/17	Xylenes	<2.0	2.0	1.0	1.0	10,000.0
MW5	10/25/17	Xylenes	<2.0	2.0	1.0	1.0	10,000.0
MW5	4/11/18	Xylenes	23.5	2.0	0.000	19.939	10,000.0
MW5	10/16/18	Xylenes	<2.0	2.0	0.000	19.939	10,000.0
MW5	4/17/19	Xylenes	<2.0	2.0	0.000	19.939	10,000.0
MW5	10/15/19	Xylenes	<2.0	2.0	0.000	19.939	10,000.0
MW5	4/6/20	Xylenes	<2.0	2.0	1.000	1.000	10,000.0
MW5	10/13/20	Xylenes	<2.0	2.0	1.000	1.000	10,000.0
MW5	4/12/2021	Xylenes	2.8	2.0	0.391	2.509	10,000.0
MW5	10/6/2021	Xylenes	<2.0	2.0	0.391	2.509	10,000.0
MW5	4/15/2022	Xylenes	6.7	2.0	0.000	6.036	10,000.0
MW5	10/25/2022	Xylenes	<2.0	2.0	0.000	6.036	10,000.0
MW5	4/3/2023	Xylenes	<2.0	2.0	0.000	5.777	10,000.0
MW5	10/16/2023	Xylenes	<2.0	2.0	0.000	5.777	10,000.0
MW5	4/22/2024	Xylenes	<2.0	2.0	1.000	1.000	10,000.0
MW5	10/7/2024	Xylenes	<2.0	2.0	1.000	1.000	10,000.0

Shallow Till/Fill System – MW-7

Well	Date	Compound	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	IAC 137 Statewide GWPS (ug/L)
MW7	10/11/16	Zinc	33.2	20.8	17.992	86.858	2000.0
MW7	4/13/17	Zinc	65.5	20.8	20.691	91.159	2000.0
MW7	10/25/17	Zinc	17.5	20.8	12.414	92.736	2000.0
MW7	4/11/18	Zinc	64.8	20.8	17.187	73.313	2000.0
MW7	10/16/18	Zinc	14.5	20.8	0.000	192.511	2000.0
MW7	4/17/19	Zinc	60.4	20.8	0.000	191.868	2000.0
MW7	10/15/19	Zinc	60.8	20.8	9.896	191.104	2000.0
MW7	4/6/2020	Zinc	45.9	20.8	1.144	190.406	2000.0
MW7	10/13/2020	Zinc	34.2	20.8	35.279	65.371	2000.0
MW7	4/12/2021	Zinc	<20.0	20.8	12.493	62.957	2000.0
MW7	10/13/2020	Zinc	22.3	20.8	9.937	46.263	2000.0
MW7	4/15/2022	Zinc	23.4	20.8	10.831	34.119	2000.0
MW7	10/25/2022	Zinc	23.7	20.8	12.093	27.607	2000.0
MW7	4/3/2023	Zinc	27.5	20.8	21.561	26.889	2000.0
MW7	10/16/2023	Zinc	<20.0	20.8	12.135	30.165	2000.0
MW7	4/22/2024	Zinc	<20.0	20.8	7.050	28.550	2000.0
MW7	10/7/2024	Zinc	39.5	20.8	4.782	38.718	2000.0

Shallow Till/Fill System – MW-9

Well	Date	Compound	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	IAC 137 Statewide GWPS (ug/L)
MW9	10/11/16	Arsenic	<4.0	4.0	0.000	27.149	10.0
MW9	4/13/17	Arsenic	<4.0	4.0	0.000	27.061	10.0
MW9	10/25/17	Arsenic	<4.0	4.0	0.000	27.061	10.0
MW9	4/11/18	Arsenic	4.1	4.0	1.290	3.760	10.0
MW9	10/16/18	Arsenic	<4.0	4.0	1.290	3.760	10.0
MW9	4/17/19	Arsenic	14.1	4.0	0.000	12.355	10.0
MW9	10/15/19	Arsenic	<4.0	4.0	0.000	12.355	10.0
MW9	4/6/2020	Arsenic	16.8	4.0	0.000	17.951	10.0
MW9	10/13/2020	Arsenic	<4.0	4.0	0.000	17.951	10.0
MW9	4/12/2021	Arsenic	11.8	4.0	0.000	16.842	10.0
MW9	10/6/2021	Arsenic	<4.0	4.0	0.000	16.842	10.0
MW9	4/15/2022	Arsenic	10.7	4.0	0.321	12.929	10.0
MW9	10/25/2022	Arsenic	5.1	4.0	1.937	12.863	10.0
MW9	4/3/2023	Arsenic	4.5	4.0	1.257	9.893	10.0
MW9	10/16/2023	Arsenic	6.1	4.0	3.292	9.908	10.0
MW9	4/22/2024	Arsenic	<4.0	4.0	2.371	6.479	10.0
MW9	10/7/2024	Arsenic	5.1	4.0	2.371	6.479	10.0
MW9	10/11/16	Barium	296.0	225.0937	278.135	585.865	2000.0
MW9	4/13/17	Barium	346.0	225.0937	247.985	571.515	2000.0
MW9	10/25/17	Barium	304.0	225.0937	214.448	562.552	2000.0
MW9	4/11/18	Barium	303.0	225.0937	285.454	339.046	2000.0
MW9	10/16/18	Barium	252.0	225.0937	218.871	560.129	2000.0
MW9	4/17/19	Barium	432.0	229.8280	243.006	578.994	2000.0
MW9	10/15/19	Barium	270.0	226.3767	223.677	581.323	2000.0
MW9	4/6/2020	Barium	474.0	221.6195	282.776	607.724	2000.0
MW9	10/13/2020	Barium	281.0	216.3691	241.915	486.585	2000.0
MW9	4/12/2021	Barium	369.0	213.1538	237.137	459.863	2000.0
MW9	10/6/2021	Barium	285.0	208.9567	245.510	458.990	2000.0
MW9	4/15/2022	Barium	379.0	205.9534	266.483	390.517	2000.0
MW9	10/25/2022	Barium	353.0	204.5711	296.654	396.346	2000.0
MW9	4/3/2023	Barium	334.0	202.4269	291.039	384.461	2000.0
MW9	10/16/2023	Barium	435.0	201.4397	323.615	426.885	2000.0
MW9	4/22/2024	Barium	394.0	199.5406	326.124	431.876	2000.0
MW9	10/7/2024	Barium	519.0	272.4527	329.140	511.860	2000.0
MW9	10/11/16	Cobalt	<0.8	0.8	0.000	8.602	2.8
MW9	4/13/17	Cobalt	1.1	0.8	0.000	8.563	2.8
MW9	10/25/17	Cobalt	<0.8	0.8	0.000	11.577	2.8
MW9	4/11/18	Cobalt	1.0	0.8	0.000	11.603	2.8
MW9	10/16/18	Cobalt	<0.8	0.8	0.000	11.603	2.8
MW9	4/17/19	Cobalt	0.9	0.8	0.000	11.621	2.1
MW9	10/15/19	Cobalt	<0.8	0.8	0.000	11.621	2.1
MW9	4/6/2020	Cobalt	0.9	0.8	0.000	11.630	2.1
MW9	10/13/2020	Cobalt	0.5	0.8	0.000	8.510	2.1
MW9	4/12/2021	Cobalt	1.0	0.8	0.000	8.517	2.1
MW9	10/6/2021	Cobalt	0.6	0.8	0.470	1.030	2.1
MW9	4/15/2022	Cobalt	1.5	0.8	0.365	1.435	2.1
MW9	10/25/2022	Cobalt	0.7	0.8	0.475	1.425	2.1
MW9	4/3/2023	Cobalt	1.1	0.8	0.491	1.459	2.1
MW9	10/16/2023	Cobalt	1.7	0.8	0.728	1.772	2.1

MW9	4/22/2024	Cobalt	1.6	0.8	0.729	1.821	2.1
MW9	10/7/2024	Cobalt	1.7	0.7	1.187	1.863	2.1
MW9	10/11/16	Nickel	<4.0	4.3	---	---	100.0
MW9	4/13/17	Nickel	4.1	4.3	---	---	100.0
MW9	10/25/17	Nickel	<4.0	4.3	---	---	100.0
MW9	4/11/18	Nickel	<4.0	4.3	---	---	100.0
MW9	10/16/18	Nickel	5.7	4.3	---	---	100.0
MW9	4/17/19	Nickel	<4.0	4.3	---	---	100.0
MW9	10/15/19	Nickel	<4.0	4.3	---	---	100.0
MW9	4/6/2020	Nickel	<4.0	4.3	---	---	100.0
MW9	10/13/2020	Nickel	<4.0	4.3	---	---	100.0
MW9	4/12/2021	Nickel	<4.0	4.3	---	---	100.0
MW9	10/6/2021	Nickel	<4.0	4.3	---	---	100.0
MW9	4/15/2022	Nickel	<4.0	4.3	---	---	100.0
MW9	10/25/2022	Nickel	<4.0	4.3	---	---	100.0
MW9	4/3/2023	Nickel	<4.0	4.3	---	---	100.0
MW9	10/16/2023	Nickel	8.4	4.3	---	---	100.0
MW9	4/22/2024	Nickel	5.1	4.3	0.781	7.969	100.0
MW9	10/7/2024	Nickel	9.7	11.6	0.752	10.848	100.0
MW9	10/11/16	Bis(2-EH)phthalate	---	6.0	---	---	6.0
MW9	4/13/17	Bis(2-EH)phthalate	<6.0	6.0	---	---	6.0
MW9	10/25/17	Bis(2-EH)phthalate	---	6.0	---	---	6.0
MW9	4/11/18	Bis(2-EH)phthalate	6.0	6.0	---	---	6.0
MW9	7/2/18	Bis(2-EH)phthalate	<6.0	6.0	---	---	6.0
MW9	10/16/18	Bis(2-EH)phthalate	<6.0	6.0	1.986	5.514	6.0
MW9	4/17/19	Bis(2-EH)phthalate	<6.0	6.0	1.986	5.514	6.0
MW9	10/15/19	Bis(2-EH)phthalate	12.0	6.0	0.000	10.543	6.0
MW9	4/6/2020	Bis(2-EH)phthalate	<6.0	6.0	0.000	10.543	6.0
MW9	10/13/2020	Bis(2-EH)phthalate	<6.0	6.0	0.000	10.543	6.0
MW9	4/12/2021	Bis(2-EH)phthalate	6.0	6.0	1.009	10.991	6.0
MW9	10/6/2021	Bis(2-EH)phthalate	<6.0	6.0	1.986	5.514	6.0
MW9	4/15/2022	Bis(2-EH)phthalate	<6.0	6.0	1.986	5.514	6.0
MW9	10/25/2022	Bis(2-EH)phthalate	6.0	6.0	2.463	6.537	6.0
MW9	4/3/2023	Bis(2-EH)phthalate	<6.0	6.0	1.986	5.514	6.0
MW9	10/16/2023	Bis(2-EH)phthalate	---	6.0	1.986	5.514	6.0
MW9	4/22/2024	Bis(2-EH)phthalate	---	6.0	1.986	5.514	6.0
MW9	10/7/2024	Bis(2-EH)phthalate	---	6.0	1.986	5.514	6.0

Shallow Till/Fill System – MW-24

Well	Date	Compound	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	IAC 137 Statewide GWPS (ug/L)
MW24	10/11/16	Arsenic	4.5	4.0	1.579	13.221	10.0
MW24	4/13/17	Arsenic	<4.0	4.0	0.000	11.020	10.0
MW24	10/25/17	Arsenic	18.6	4.0	0.000	16.151	10.0
MW24	4/11/18	Arsenic	6.2	4.0	0.000	16.515	10.0
MW24	10/16/18	Arsenic	<4.0	4.0	0.000	16.438	10.0
MW24	4/17/19	Arsenic	<4.0	4.0	0.000	16.438	10.0
MW24	10/15/19	Arsenic	<4.0	4.0	0.580	5.520	10.0
MW24	4/6/2020	Arsenic	<4.0	4.0	2.000	2.000	10.0
MW24	10/13/2020	Arsenic	13.4	4.0	0.000	11.555	10.0
MW24	4/12/2021	Arsenic	<4.0	4.0	0.000	11.555	10.0
MW24	10/6/2021	Arsenic	12.1	4.0	0.048	14.702	10.0
MW24	4/15/2022	Arsenic	<4.0	4.0	0.048	14.702	10.0
MW24	10/25/2022	Arsenic	16.0	4.0	0.000	16.420	10.0
MW24	4/3/2023	Arsenic	<4.0	4.0	0.000	16.420	10.0
MW24	10/16/2023	Arsenic	Dry	4.0	0.000	16.420	10.0
MW24	4/22/2024	Arsenic	10.8	4.0	0.000	15.835	10.0
MW24	10/7/2024	Arsenic	Dry	4.0	0.000	15.835	10.0
MW24	10/11/16	Barium	490.0	225.0937	482.890	552.610	2000.0
MW24	4/13/17	Barium	434.0	225.0937	443.328	529.672	2000.0
MW24	10/25/17	Barium	519.0	225.0937	443.166	530.834	2000.0
MW24	4/11/18	Barium	398.0	225.0937	396.178	524.322	2000.0
MW24	10/16/18	Barium	371.0	225.0937	354.750	506.250	2000.0
MW24	4/17/19	Barium	371.0	229.8280	331.638	497.862	2000.0
MW24	10/15/19	Barium	446.0	226.3767	354.895	438.105	2000.0
MW24	4/6/2020	Barium	531.0	221.6195	340.118	519.382	2000.0
MW24	10/13/2020	Barium	491.0	216.3691	379.054	540.446	2000.0
MW24	4/12/2021	Barium	337.0	213.1538	352.786	549.714	2000.0
MW24	10/6/2021	Barium	466.0	208.9567	357.575	554.925	2000.0
MW24	4/15/2022	Barium	350.0	205.9534	318.324	503.676	2000.0
MW24	10/25/2022	Barium	529.0	204.5711	311.447	529.553	2000.0
MW24	4/3/2023	Barium	389.0	202.4269	339.571	527.429	2000.0
MW24	10/16/2023	Barium	Dry	201.4397	339.571	527.429	2000.0
MW24	4/22/2024	Barium	490.0	199.5406	340.802	538.198	2000.0
MW24	10/7/2024	Barium	Dry	272.4527	340.802	538.198	2000.0
MW24	10/11/16	Cobalt	2.8	0.8	2.876*	4.459	2.8
MW24	4/13/17	Cobalt	3.1	0.8	2.714	4.436	2.8
MW24	10/25/17	Cobalt	2.4	0.8	2.217	4.033	2.8
MW24	4/11/18	Cobalt	1.8	0.8	1.864	3.186	2.8
MW24	10/16/18	Cobalt	1.0	0.8	1.026	3.124	2.8
MW24	4/17/19	Cobalt	2.2	0.8	1.122	2.578	2.1
MW24	10/15/19	Cobalt	1.2	0.8	0.902	2.198	2.1
MW24	4/6/2020	Cobalt	2.5	0.8	0.859	2.591	2.1
MW24	10/13/2020	Cobalt	1.4	0.8	1.091	2.559	2.1
MW24	4/12/2021	Cobalt	1.8	0.8	1.050	2.400	2.1
MW24	10/6/2021	Cobalt	1.5	0.8	1.216	2.384	2.1
MW24	4/15/2022	Cobalt	1.5	0.8	1.346	1.754	2.1
MW24	10/25/2022	Cobalt	0.8	0.8	0.901	1.899	2.1
MW24	4/3/2023	Cobalt	0.8	0.8	0.675	1.625	2.1
MW24	10/16/2023	Cobalt	Dry	0.8	0.675	1.625	2.1

MW24	4/22/2024	Cobalt	2.1	0.8	0.562	2.038	2.1
MW24	10/7/2024	Cobalt	Dry	0.7	0.562	2.038	2.1
MW24	10/11/16	Nickel	27.9	4.3	25.795	34.005	100.0
MW24	4/13/17	Nickel	23.1	4.3	22.899	31.651	100.0
MW24	10/25/17	Nickel	31.6	4.3	22.996	31.354	100.0
MW24	4/11/18	Nickel	25.9	4.3	22.921	31.329	100.0
MW24	10/16/18	Nickel	18.3	4.3	18.191	31.259	100.0
MW24	4/17/19	Nickel	18.8	4.3	16.198	31.102	100.0
MW24	10/15/19	Nickel	29.0	4.3	16.770	29.230	100.0
MW24	4/6/2020	Nickel	32.5	4.3	16.192	33.108	100.0
MW24	10/13/2020	Nickel	35.0	4.3	20.448	37.202	100.0
MW24	4/12/2021	Nickel	21.1	4.3	22.277	36.523	100.0
MW24	10/6/2021	Nickel	35.5	4.3	23.090	38.960	100.0
MW24	4/15/2022	Nickel	24.5	4.3	20.410	37.640	100.0
MW24	10/25/2022	Nickel	40.0	4.3	19.767	40.783	100.0
MW24	4/3/2023	Nickel	27.6	4.3	23.532	40.268	100.0
MW24	10/16/2023	Nickel	Dry	4.3	23.532	40.268	100.0
MW24	4/22/2024	Nickel	38.0	4.3	23.554	41.496	100.0
MW24	10/7/2024	Nickel	Dry	11.6	23.554	41.496	100.0
MW24	10/20/15	Benzene	1.6	1.0	0.241	1.583	5.0
MW24	4/11/16	Benzene	<1.0	1.0	0.241	1.583	5.0
MW24	10/11/16	Benzene	1.4	1.0	0.383	1.782	5.0
MW24	4/13/17	Benzene	<1.0	1.0	0.021	1.729	5.0
MW24	10/25/17	Benzene	<1.0	1.0	0.000	1.214	5.0
MW24	4/11/18	Benzene	1.2	1.0	0.055	1.495	5.0
MW24	10/16/18	Benzene	<1.0	1.0	0.000	1.046	5.0
MW24	4/17/19	Benzene	<1.0	1.0	0.000	1.046	5.0
MW24	10/15/19	Benzene	<1.0	1.0	0.263	1.087	5.0
MW24	4/6/2020	Benzene	<1.0	1.0	0.500	0.500	5.0
MW24	10/13/2020	Benzene	1.6	1.0	0.128	1.422	5.0
MW24	4/12/2021	Benzene	<1.0	1.0	0.128	1.422	5.0
MW24	10/6/2021	Benzene	1.4	1.0	0.314	1.686	5.0
MW24	4/15/2022	Benzene	<1.0	1.0	0.314	1.686	5.0
MW24	10/25/2022	Benzene	2.0	1.0	0.236	1.964	5.0
MW24	4/3/2023	Benzene	<1.0	1.0	0.236	1.964	5.0
MW24	10/16/2023	Benzene	Dry	1.0	0.236	1.964	5.0
MW24	4/22/2024	Benzene	<1.0	1.0	0.236	1.964	5.0
MW24	10/7/2024	Benzene	Dry	1.0	0.236	1.964	5.0
MW24	10/20/15	Bis(2-EH)phthalate	<8.0	6.0	---	---	6.0
MW24	4/11/16	Bis(2-EH)phthalate	<8.0	6.0	---	---	6.0
MW24	4/12/2021	Bis(2-EH)phthalate	12.0	6.0	---	---	6.0
MW24	10/6/2021	Bis(2-EH)phthalate	<6.0	6.0	1.295	10.705	6.0
MW24	4/15/2022	Bis(2-EH)phthalate	<6.0	6.0	0.000	10.543	6.0
MW24	10/25/2022	Bis(2-EH)phthalate	<6.0	6.0	0.000	10.543	6.0
MW24	4/3/2023	Bis(2-EH)phthalate	NT	6.0	0.000	10.543	6.0
MW24	10/16/2023	Bis(2-EH)phthalate	Dry	6.0	0.000	10.543	6.0
MW24	4/22/2024	Bis(2-EH)phthalate	NT	6.0	0.000	10.543	6.0
MW24	10/7/2024	Bis(2-EH)phthalate	Dry	6.0	0.000	10.543	6.0
MW24	10/20/15	1,1-dichloroethane	1.0	1.0	0.331	0.919	140.0
MW24	4/11/16	1,1-dichloroethane	<1.0	1.0	0.331	0.919	140.0
MW24	10/11/16	1,1-dichloroethane	<1.0	1.0	0.331	0.919	140.0
MW24	4/13/17	1,1-dichloroethane	<1.0	1.0	0.331	0.919	140.0
MW24	10/25/17	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0

MW24	4/11/18	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0
MW24	10/16/18	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0
MW24	4/17/19	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0
MW24	10/15/19	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0
MW24	4/6/2020	1,1-dichloroethane	<1.0	1.0	0.500	0.500	140.0
MW24	10/13/2020	1,1-dichloroethane	1.1	1.0	0.297	1.003	140.0
MW24	4/12/2021	1,1-dichloroethane	<1.0	1.0	0.297	1.003	140.0
MW24	10/6/2021	1,1-dichloroethane	1.2	1.0	0.381	1.269	140.0
MW24	4/15/2022	1,1-dichloroethane	<1.0	1.0	0.381	1.269	140.0
MW24	10/25/2022	1,1-dichloroethane	1.7	1.0	0.287	1.663	140.0
MW24	4/3/2023	1,1-dichloroethane	<1.0	1.0	0.287	1.663	140.0
MW24	10/16/2023	1,1-dichloroethane	Dry	1.0	0.287	1.663	140.0
MW24	4/22/2024	1,1-dichloroethane	<1.0	1.0	0.287	1.663	140.0
MW24	10/7/2024	1,1-dichloroethane	Dry	1.0	0.287	1.663	140.0
MW24	10/20/15	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW24	4/11/16	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW24	10/11/16	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW24	4/13/17	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW24	10/25/17	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW24	4/11/18	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW24	10/16/18	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW24	4/17/19	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW24	10/15/19	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW24	4/6/2020	Vinyl Chloride	<1.0	1.0	0.500	0.500	2.0
MW24	10/13/2020	Vinyl Chloride	1.4	1.0	0.196	1.254	2.0
MW24	4/12/2021	Vinyl Chloride	<1.0	1.0	0.196	1.254	2.0
MW24	10/6/2021	Vinyl Chloride	1.4	1.0	0.339	1.561	2.0
MW24	4/15/2022	Vinyl Chloride	<1.0	1.0	0.339	1.561	2.0
MW24	10/25/2022	Vinyl Chloride	2.2	1.0	0.187	2.113	2.0
MW24	4/3/2023	Vinyl Chloride	<1.0	1.0	0.187	2.113	2.0
MW24	10/16/2023	Vinyl Chloride	Dry	1.0	0.187	2.113	2.0
MW24	4/22/2024	Vinyl Chloride	<1.0	1.0	0.187	2.113	2.0
MW24	10/7/2024	Vinyl Chloride	Dry	1.0	0.187	2.113	2.0

'* - *well head of MW-24 was repaired to correct surface infiltration.*

Shallow Till/Fill System – MW-25

Well	Date	Compound	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	IAC 137 Statewide GWPS (ug/L)
MW25	10/11/16	Cobalt	4.3	0.8	0.773	4.372	2.8
MW25	4/13/17	Cobalt	0.9	0.8	0.652	4.398	2.8
MW25	10/25/17	Cobalt	2.6	0.8	1.101	4.499	2.8
MW25	4/11/18	Cobalt	0.8	0.8	0.204	4.096	2.8
MW25	10/16/18	Cobalt	1.9	0.8	0.540	2.560	2.8
MW25	4/17/19	Cobalt	1.5	0.8	0.815	2.585	2.1
MW25	10/15/19	Cobalt	2.0	0.8	0.909	2.191	2.1
MW25	4/6/2020	Cobalt	0.8	0.8	0.909	2.191	2.1
MW25	10/13/2020	Cobalt	1.8	0.8	0.907	2.143	2.1
MW25	4/12/2021	Cobalt	2.1	0.8	0.973	2.377	2.1
MW25	10/6/2021	Cobalt	1.3	0.8	0.828	2.172	2.1
MW25	4/15/2022	Cobalt	0.7	0.8	0.754	2.196	2.1
MW25	10/25/2022	Cobalt	4.7	0.8	0.127	4.273	2.1
MW25	4/3/2023	Cobalt	0.6	0.8	0.000	4.109	2.1
MW25	10/16/2023	Cobalt	<0.4	0.8	0.000	4.053	2.1
MW25	4/22/2024	Cobalt	4.7	0.8	0.000	5.420	2.1
MW25	10/7/2024	Cobalt	<0.4	0.7	0.000	4.057	2.1
MW25	10/11/16	Nickel	<4.0	4.3	5.000	5.000	100.0
MW25	4/13/17	Nickel	<4.0	4.3	5.000	5.000	100.0
MW25	10/25/17	Nickel	117.0	4.3	0.000	98.872	100.0
MW25	4/11/18	Nickel	<4.0	4.3	0.000	98.872	100.0
MW25	10/16/18	Nickel	4.2	4.3	0.000	98.830	100.0
MW25	4/17/19	Nickel	<4.0	4.3	0.000	98.516	100.0
MW25	10/15/19	Nickel	<4.0	4.3	1.256	3.844	100.0
MW25	4/6/2020	Nickel	<4.0	4.3	1.256	3.844	100.0
MW25	10/13/2020	Nickel	<4.0	4.3	2.000	2.000	100.0
MW25	4/12/2021	Nickel	<4.0	4.3	2.000	2.000	100.0
MW25	10/6/2021	Nickel	<4.0	4.3	2.000	2.000	100.0
MW25	4/15/2022	Nickel	<4.0	4.3	2.000	2.000	100.0
MW25	10/25/2022	Nickel	<4.0	4.3	2.000	2.000	100.0
MW25	4/3/2023	Nickel	<4.0	4.3	2.000	2.000	100.0
MW25	10/16/2023	Nickel	<4.0	4.3	2.000	2.000	100.0
MW25	4/22/2024	Nickel	7.9	4.3	0.005	6.945	100.0
MW25	10/7/2024	Nickel	8.1	11.6	1.999	8.001	100.0
MW25	10/11/16	Zinc	<20.0	20.8	---	---	2000.0
MW25	4/13/17	Zinc	<8.0	20.8	4.555	4.555	2000.0
MW25	10/25/17	Zinc	13.5	20.8	1.530	12.052	2000.0
MW25	4/11/18	Zinc	53.9	20.8	0.000	46.843	2000.0
MW25	10/16/18	Zinc	<8.0	20.8	0.000	46.843	2000.0
MW25	4/17/19	Zinc	<20	20.8	0.000	46.843	2000.0
MW25	10/15/19	Zinc	8.6	20.8	0.000	46.220	2000.0
MW25	4/6/2020	Zinc	<20	20.8	10.000	10.000	2000.0
MW25	10/13/2020	Zinc	<20	20.8	10.000	10.000	2000.0
MW25	4/12/2021	Zinc	<20	20.8	10.000	10.000	2000.0
MW25	10/6/2021	Zinc	<20	20.8	10.000	10.000	2000.0
MW25	4/15/2022	Zinc	<20	20.8	10.000	10.000	2000.0
MW25	10/25/2022	Zinc	<20	20.8	10.000	10.000	2000.0
MW25	4/3/2023	Zinc	<20	20.8	10.000	10.000	2000.0
MW25	10/16/2023	Zinc	<20	20.8	10.000	10.000	2000.0

MW25	4/22/2024	Zinc	<20	20.8	10.000	10.000	2000.0
MW25	10/7/2024	Zinc	<20	20.8	10.000	10.000	2000.0
MW25	4/13/17	Bis(2-EH)phthalate	18.0	6.0	---	---	6.0
MW25	10/25/17	Bis(2-EH)phthalate	<6.0	6.0	---	---	6.0
MW25	4/11/18	Bis(2-EH)phthalate	<6.0	6.0	---	---	6.0
MW25	10/16/18	Bis(2-EH)phthalate	<6.0	6.0	0.2548	13.245	6.0
MW25	4/17/19	Bis(2-EH)phthalate	<6.0	6.0	3.000	3.000	6.0
MW25	10/15/19	Bis(2-EH)phthalate	<6.0	6.0	3.000	3.000	6.0
MW25	4/6/2020	Bis(2-EH)phthalate	<6.0	6.0	3.000	3.000	6.0
MW25	10/13/2020	Bis(2-EH)phthalate	<6.0	6.0	3.000	3.000	6.0
MW25	4/12/2021	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW25	10/6/2021	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW25	4/15/2022	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW25	10/25/2022	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW25	4/3/2023	Bis(2-EH)phthalate	15.0	6.0	0.000	13.058	6.0
MW25	10/16/2023	Bis(2-EH)phthalate	<6.0	6.0	0.000	13.058	6.0
MW25	4/22/2024	Bis(2-EH)phthalate	---	6.0	0.000	13.058	6.0
MW25	10/7/2024	Bis(2-EH)phthalate	---	6.0	0.000	13.058	6.0

Shallow Till/Fill System – MW-26

Well	Date	Compound	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	IAC 137 Statewide GWPS (ug/L)
MW26	10/11/16	Cobalt	2.9	0.8	0.292	2.358	2.8
MW26	4/13/17	Cobalt	<0.8	0.8	0.351	3.499	2.8
MW26	10/25/17	Cobalt	4.0	0.8	1.305	4.045	2.8
MW26	4/11/18	Cobalt	3.2	0.8	1.194	4.138	2.8
MW26	10/16/18	Cobalt	2.1	0.8	2.242	4.108	2.8
MW26	4/17/19	Cobalt	<0.8	0.8	0.950	3.788	2.1
MW26	10/15/19	Cobalt	1.2	0.8	0.556	3.082	2.1
MW26	4/6/2020	Cobalt	1.0	0.8	0.586	1.952	2.1
MW26	10/13/2020	Cobalt	3.6	0.8	0.096	3.191	2.1
MW26	4/12/2021	Cobalt	<0.4	0.8	0.096	3.191	2.1
MW26	10/6/2021	Cobalt	3.6	0.8	0.398	4.089	2.1
MW26	4/15/2022	Cobalt	0.6	0.8	0.164	4.124	2.1
MW26	10/25/2022	Cobalt	0.9	0.8	0.000	3.146	2.1
MW26	4/3/2023	Cobalt	<0.4	0.8	0.000	3.146	2.1
MW26	10/16/2023	Cobalt	13.6	0.8	0.000	11.523	2.1
MW26	4/22/2024	Cobalt	1.1	0.8	0.000	11.550	2.1
MW26	10/7/2024	Cobalt	11.8	0.7	0.000	14.855	2.1
MW26	10/11/16	Nickel	8.2	4.3	3.728	10.372	100.0
MW26	4/13/17	Nickel	4.7	4.3	3.564	10.386	100.0
MW26	10/25/17	Nickel	11.2	4.3	3.398	10.902	100.0
MW26	4/11/18	Nickel	11.1	4.3	5.192	12.408	100.0
MW26	10/16/18	Nickel	4.1	4.3	3.182	12.368	100.0
MW26	4/17/19	Nickel	<4.0	4.3	3.347	12.353	100.0
MW26	10/15/19	Nickel	5.0	4.3	2.503	10.097	100.0
MW26	4/6/2020	Nickel	<4.0	4.3	4.246	5.304	100.0
MW26	10/13/2020	Nickel	10.1	4.3	3.275	9.275	100.0
MW26	4/12/2021	Nickel	<4.0	4.3	3.275	9.275	100.0
MW26	10/6/2021	Nickel	7.5	4.3	4.033	9.767	100.0
MW26	4/15/2022	Nickel	<4.0	4.3	4.033	9.767	100.0
MW26	10/25/2022	Nickel	7.3	4.3	4.567	7.833	100.0
MW26	4/3/2023	Nickel	<4.0	4.3	4.567	7.833	100.0
MW26	10/16/2023	Nickel	9.3	4.3	4.212	9.088	100.0
MW26	4/22/2024	Nickel	<4.0	4.3	4.212	9.088	100.0
MW26	10/7/2024	Nickel	8.7	11.6	1.994	9.006	100.0
MW26	10/11/16	Bis(2-EH)phthalate	---	6.0	---	---	6.0
MW26	4/13/17	Bis(2-EH)phthalate	---	6.0	---	---	6.0
MW26	10/25/17	Bis(2-EH)phthalate	12.0	6.0	---	---	6.0
MW26	4/11/18	Bis(2-EH)phthalate	<6	6.0	---	---	6.0
MW26	10/16/2018	Bis(2-EH)phthalate	<6	6.0	---	---	6.0
MW26	4/17/19	Bis(2-EH)phthalate	7.0	6.0	1.647	6.353	6.0
MW26	10/15/19	Bis(2-EH)phthalate	<6	6.0	1.647	6.353	6.0
MW26	4/6/2020	Bis(2-EH)phthalate	<6	6.0	1.647	6.353	6.0
MW26	10/13/2020	Bis(2-EH)phthalate	<6	6.0	1.647	6.353	6.0
MW26	4/12/2021	Bis(2-EH)phthalate	<6	6.0	3.000	3.000	6.0
MW26	10/6/2021	Bis(2-EH)phthalate	<6	6.0	3.000	3.000	6.0
MW26	4/15/2022	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW26	10/25/2022	Bis(2-EH)phthalate	---	6.0	3.000	3.000	6.0
MW26	4/3/2023	Bis(2-EH)phthalate	18.0	6.0	0.000	15.572	6.0
MW26	10/16/2023	Bis(2-EH)phthalate	<6	6.0	0.000	15.572	6.0
MW26	4/22/2024	Bis(2-EH)phthalate	---	6.0	0.000	15.572	6.0
MW26	10/7/2024	Bis(2-EH)phthalate	---	6.0	0.000	15.572	6.0

Shallow Till/Fill System – MW-32

Well	Date	Compound	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	IAC 137 Statewide GWPS (ug/L)
MW32	4/11/18	Arsenic	<4.0	4.0	---	---	10.0
MW32	10/16/18	Arsenic	<4.0	4.0	---	---	10.0
MW32	4/17/19	Arsenic	<4.0	4.0	---	---	10.0
MW32	10/15/19	Arsenic	<4.0	4.0	2.000	2.000	10.0
MW32	4/6/2020	Arsenic	<4.0	4.0	2.000	2.000	10.0
MW32	10/13/2020	Arsenic	<4.0	4.0	2.000	2.000	10.0
MW32	4/12/2021	Arsenic	5.5	4.0	0.816	4.934	10.0
MW32	10/6/2021	Arsenic	<4.0	4.0	0.816	4.934	10.0
MW32	4/15/2022	Arsenic	<4.0	4.0	0.816	4.934	10.0
MW32	10/25/2022	Arsenic	<4.0	4.0	0.816	4.934	10.0
MW32	4/3/2023	Arsenic	<4.0	4.0	2.000	2.000	10.0
MW32	10/16/2023	Arsenic	8.9	4.0	0.000	7.783	10.0
MW32	4/22/2024	Arsenic	<4.0	4.0	0.000	7.783	10.0
MW32	10/7/2024	Arsenic	4.2	4.0	0.448	8.102	10.0
MW32	4/11/18	Barium	247.0	225.0937	---	---	2,000.0
MW32	10/16/18	Barium	199.0	225.0937	---	---	2,000.0
MW32	4/17/19	Barium	238.0	229.8280	---	---	2,000.0
MW32	10/15/19	Barium	199.0	226.3767	---	---	2,000.0
MW32	4/6/2020	Barium	205.0	221.6195	---	---	2,000.0
MW32	10/13/2020	Barium	188.0	216.3691	---	---	2,000.0
MW32	4/12/2021	Barium	254.0	213.1538	177.159	245.841	2,000.0
MW32	7/1/2021	Barium	219.0	213.1538	177.159	245.841	2,000.0
MW32	10/6/2021	Barium	197.0	208.9567	179.944	249.056	2,000.0
MW32	4/15/2022	Barium	206.0	205.9534	189.569	248.431	2,000.0
MW32	10/25/2022	Barium	281.0	204.5711	181.140	270.360	2,000.0
MW32	4/3/2023	Barium	344.0	202.4269	175.657	338.343	2,000.0
MW32	10/16/2023	Barium	460.0	201.4397	196.310	449.190	2,000.0
MW32	4/22/2024	Barium	421.0	199.5406	282.571	470.429	2,000.0
MW32	10/7/2024	Barium	326.0	272.4527	313.192	462.308	2,000.0
MW32	1/17/2018	Cobalt	1.7	0.8	---	---	2.8
MW32	4/11/18	Cobalt	1.0	0.8	---	---	2.8
MW32	10/16/18	Cobalt	<0.8	0.8	---	---	2.8
MW32	4/17/19	Cobalt	0.8	0.8	---	---	2.1
MW32	10/15/19	Cobalt	<0.8	0.8	---	---	2.1
MW32	4/6/2020	Cobalt	0.7	0.8	---	---	2.1
MW32	10/13/2020	Cobalt	<0.4	0.8	---	---	2.1
MW32	4/12/2021	Cobalt	0.4	0.8	---	---	2.1
MW32	10/6/2021	Cobalt	<0.4	0.8	---	---	2.1
MW32	4/15/2022	Cobalt	0.4	0.8	0.164	0.436	2.1
MW32	10/25/2022	Cobalt	2.3	0.8	0.000	1.987	2.1
MW32	4/3/2023	Cobalt	0.6	0.8	0.000	2.009	2.1
MW32	10/16/2023	Cobalt	<0.4	0.8	0.000	2.009	2.1
MW32	4/22/2024	Cobalt	1.4	0.8	0.033	2.217	2.1
MW32	10/7/2024	Cobalt	0.4	0.7	0.031	1.269	2.1

Shallow Till/Fill System – MW-33

Well	Date	Compound	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	IAC 137 Statewide GWPS (ug/L)
MW33	7/2/18	Arsenic	<4.0	4.0	---	---	10.0
MW33	10/16/18	Arsenic	<4.0	4.0	---	---	10.0
MW33	4/17/19	Arsenic	<4.0	4.0	---	---	10.0
MW33	10/15/19	Arsenic	<4.0	4.0	---	---	10.0
MW33	4/6/2020	Arsenic	<4.0	4.0	---	---	10.0
MW33	10/13/2020	Arsenic	<4.0	4.0	---	---	10.0
MW33	4/12/2021	Arsenic	<4.0	4.0	---	---	10.0
MW33	10/6/2021	Arsenic	<4.0	4.0	---	---	10.0
MW33	4/15/2022	Arsenic	<4.0	4.0	---	---	10.0
MW33	10/25/2022	Arsenic	<4.0	4.0	---	---	10.0
MW33	4/3/2023	Arsenic	<4.0	4.0	---	---	10.0
MW33	10/16/2023	Arsenic	25.6	4.0	0.000	21.780	10.0
MW33	4/22/2024	Arsenic	27.6	4.0	0.000	31.034	10.0
MW33	10/7/2024	Arsenic	Dry	4.0	0.000	31.034	10.0
MW33	7/2/18	Barium	127.0	204.5711	---	---	2000.0
MW33	10/16/18	Barium	107.0	204.5711	---	---	2000.0
MW33	4/17/19	Barium	222.0	204.5711	---	---	2000.0
MW33	10/15/19	Barium	140.0	204.5711	---	---	2000.0
MW33	4/6/2020	Barium	139.0	204.5711	---	---	2000.0
MW33	10/13/2020	Barium	136.0	204.5711	---	---	2000.0
MW33	4/12/2021	Barium	127.0	204.5711	---	---	2000.0
MW33	10/6/2021	Barium	103.0	204.5711	---	---	2000.0
MW33	4/15/2022	Barium	150.0	204.5711	105.770	152.230	2000.0
MW33	10/25/2022	Barium	226.0	204.5711	88.869	214.131	2000.0
MW33	4/3/2023	Barium	160.0	202.4269	100.138	219.362	2000.0
MW33	10/16/2023	Barium	972.0	201.4397	0.000	845.277	2000.0
MW33	4/22/2024	Barium	185.0	199.5406	0.000	846.595	2000.0
MW33	10/7/2024	Barium	Dry	272.4527	0.000	846.595	2000.0
MW33	7/2/18	Cadmium	<0.8	0.8	---	---	5.0
MW33	10/16/18	Cadmium	<0.8	0.8	---	---	5.0
MW33	4/17/19	Cadmium	<0.8	0.8	---	---	5.0
MW33	10/15/19	Cadmium	<0.8	0.8	---	---	5.0
MW33	4/6/2020	Cadmium	<0.8	0.8	---	---	5.0
MW33	10/13/2020	Cadmium	<0.8	0.8	---	---	5.0
MW33	4/12/2021	Cadmium	<0.8	0.8	---	---	5.0
MW33	10/6/2021	Cadmium	<0.8	0.8	---	---	5.0
MW33	4/15/2022	Cadmium	<0.8	0.8	---	---	5.0
MW33	10/25/2022	Cadmium	<0.8	0.8	---	---	5.0
MW33	4/3/2023	Cadmium	0.9	0.8	0.231	0.819	5.0
MW33	10/16/2023	Cadmium	6.5	0.8	0.000	5.551	5.0
MW33	4/22/2024	Cadmium	1.8	0.8	0.000	5.687	5.0
MW33	10/7/2024	Cadmium	Dry	0.8	0.000	5.687	5.0
MW33	7/2/18	Cobalt	<0.8	0.8	---	---	2.8
MW33	10/16/18	Cobalt	<0.8	0.8	---	---	2.8
MW33	4/17/19	Cobalt	6.2	0.8	---	---	2.1
MW33	10/15/19	Cobalt	<0.8	0.8	---	---	2.1
MW33	4/6/2020	Cobalt	2.7	0.8	0.000	5.648	2.1
MW33	7/1/2020	Cobalt	<0.4	0.8	0.000	5.648	2.1
MW33	10/13/2020	Cobalt	<0.4	0.8	0.000	2.328	2.1

MW33	4/12/2021	Cobalt	<0.4	0.8	0.000	2.295	2.1
MW33	10/6/2021	Cobalt	0.5	0.8	0.099	0.451	2.1
MW33	4/15/2022	Cobalt	1.9	0.8	0.000	1.656	2.1
MW33	7/13/2022	Cobalt	2.0	0.8	0.000	1.656	2.1
MW33	10/25/2022	Cobalt	16.1	0.8	0.000	13.769	2.1
MW33	4/3/2023	Cobalt	1.4	0.8	0.000	13.786	2.1
MW33	10/16/2023	Cobalt	149.0	0.8	0.000	126.316	2.1
MW33	4/22/2024	Cobalt	86.3	0.8	0.000	143.363	2.1
MW33	10/7/2024	Cobalt	Dry	0.7	0.000	143.363	2.1
MW33	7/2/18	Nickel	<4.0	4.3	---	---	100.0
MW33	10/16/18	Nickel	<4.0	4.3	---	---	100.0
MW33	4/17/19	Nickel	7.5	4.3	---	---	100.0
MW33	10/15/19	Nickel	<4.0	4.3	---	---	100.0
MW33	4/6/2020	Nickel	4.2	4.3	---	---	100.0
MW33	10/13/2020	Nickel	<4.0	4.3	---	---	100.0
MW33	4/12/2021	Nickel	<4.0	4.3	---	---	100.0
MW33	10/6/2021	Nickel	<4.0	4.3	---	---	100.0
MW33	4/15/2022	Nickel	<4.0	4.3	2.000	2.000	100.0
MW33	7/13/2022	Nickel	<4.0	4.3	2.000	2.000	100.0
MW33	10/25/2022	Nickel	5.1	4.3	0.952	4.598	100.0
MW33	4/3/2023	Nickel	5.8	4.3	1.358	6.092	100.0
MW33	10/16/2023	Nickel	46.9	4.3	0.000	40.080	100.0
MW33	4/22/2024	Nickel	112.0	4.3	0.000	101.637	100.0
MW33	10/7/2024	Nickel	Dry	4.3	0.000	101.637	100.0
MW33	7/2/18	Bis(2-EH)phthalate	---	6.0	---	---	6.0
MW33	10/16/18	Bis(2-EH)phthalate	---	6.0	---	---	6.0
MW33	4/17/19	Bis(2-EH)phthalate	---	6.0	---	---	6.0
MW33	10/15/19	Bis(2-EH)phthalate	---	6.0	---	---	6.0
MW33	4/6/2020	Bis(2-EH)phthalate	---	6.0	---	---	6.0
MW33	7/1/2020	Bis(2-EH)phthalate	---	6.0	---	---	6.0
MW33	10/13/2020	Bis(2-EH)phthalate	---	6.0	---	---	6.0
MW33	4/12/2021	Bis(2-EH)phthalate	---	6.0	---	---	6.0
MW33	10/6/2021	Bis(2-EH)phthalate	---	6.0	---	---	6.0
MW33	4/15/2022	Bis(2-EH)phthalate	---	6.0	---	---	6.0
MW33	7/13/2022	Bis(2-EH)phthalate	---	6.0	---	---	6.0
MW33	10/25/2022	Bis(2-EH)phthalate	55.0	6.0	---	---	6.0
MW33	4/3/2023	Bis(2-EH)phthalate	<6.0	6.0	---	---	6.0
MW33	10/16/2023	Bis(2-EH)phthalate	<6.0	6.0	---	---	6.0
MW33	4/22/2024	Bis(2-EH)phthalate	<6.0	6.0	0.000	38.517	6.0
MW33	10/7/2024	Bis(2-EH)phthalate	---	6.0	0.000	38.517	6.0

Appendix G

CAMP Results Summary

Table 11
ACM Tile Outlet & PECS Evaluation
Annual Water Quality Report
Fayette County Sanitary Landfill
Permit No. 33-SDP-02-83C

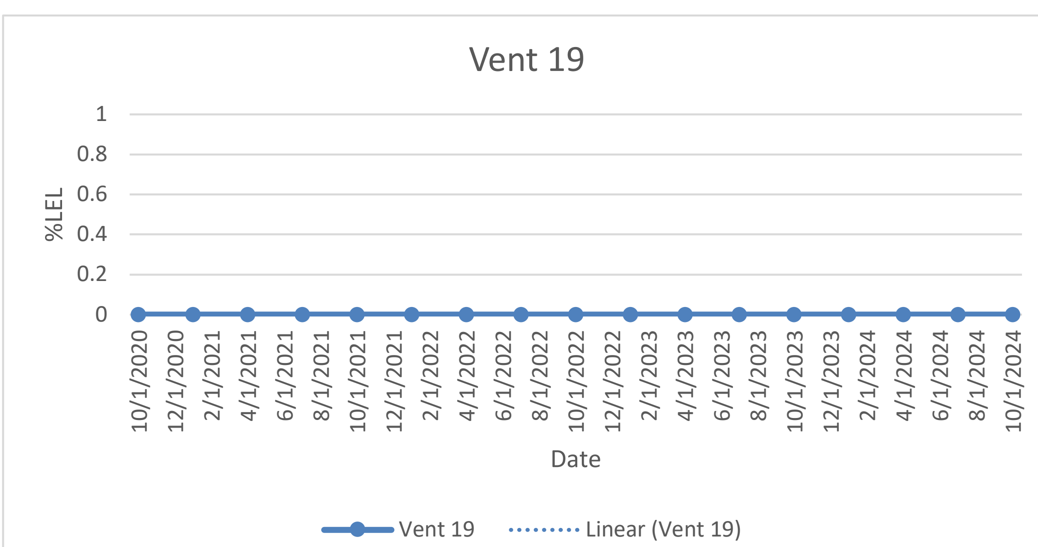
Date	ACM Tile 1				PECS-1	
	Arsenic Concentration (ug/L)	**Arsenic GWPS (ug/L)**	**VOC Concentration (ug/L)**	**VOC GWPS (ug/L)**	**VOC Concentration (ug/L)**	**VOC GWPS (ug/L)**
10/13/2020	<4	10	ND	<1 to <5	ND	<1 to <5
4/12/2021	<4	10	ND	<1 to <5	ND	<1 to <5
10/6/2021	<4	10	ND	<1 to <5	ND	<1 to <5
4/14/2022	<4	10	ND	<1 to <5	ND	<1 to <5
10/25/2022	<4	10	ND	<1 to <5	ND	<1 to <5
4/3/2023	<4	10	ND	<1 to <5	ND	<1 to <5
10/16/2023	<4	10	ND	<1 to <5	ND	<1 to <5
4/22/2024	<4	10	ND	<1 to <5	ND	<1 to <5
10/7/2024	Dry	10	Dry	<1 to <5	ND	<1 to <5

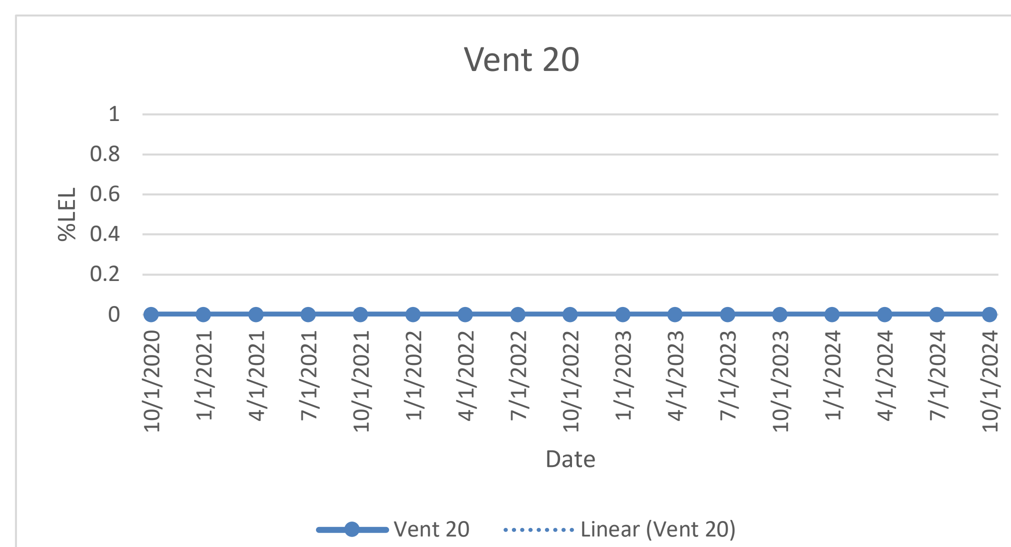
ND *= Non-detected and reported below the applicable method reporting limit (MRL)*

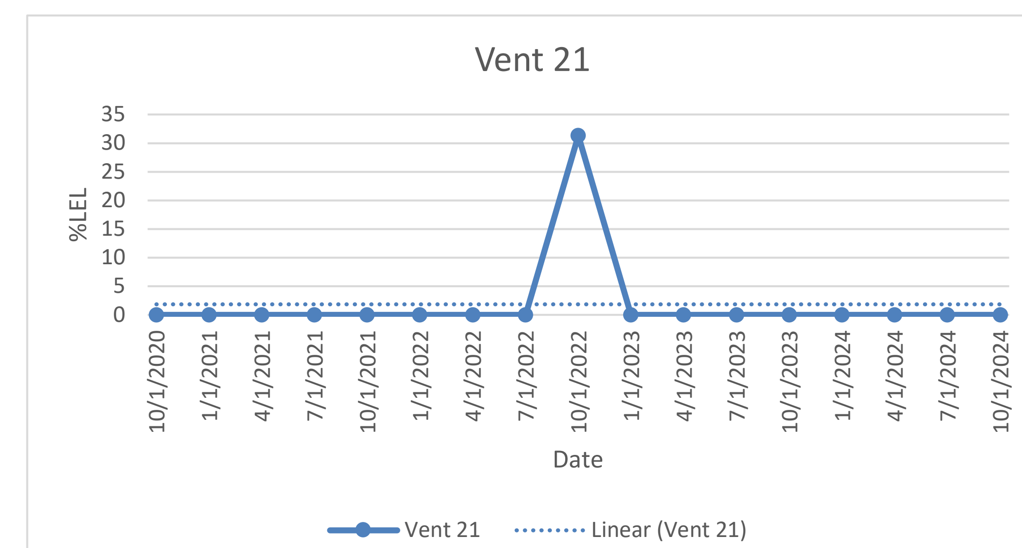
Table 12
CAMP Vent Gas Evaluation
Annual Water Quality Report
Fayette County Sanitary Landfill
Permit No. 33-SDP-02-83C

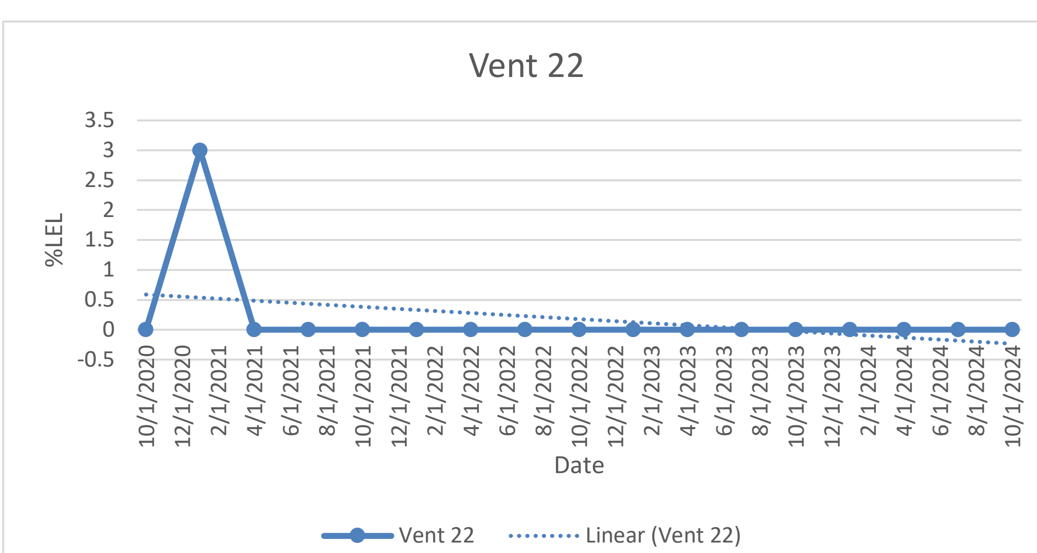
KEY: 101 = a value that exceeds 100% of the LEL

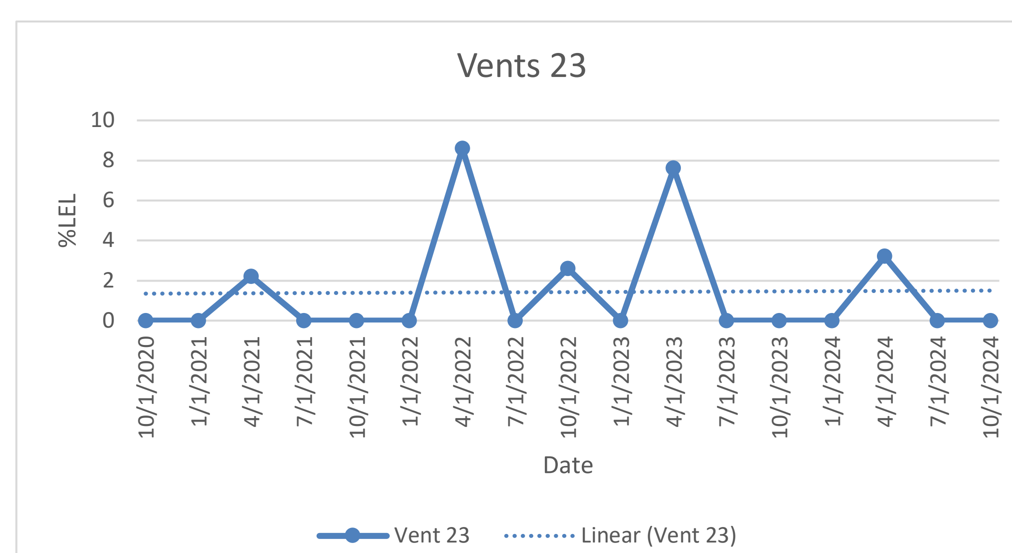
%LEL	west							east
Date	**Vent 19**	**Vent 20**	**Vent 21**	**Vent 22**	**Vent 23**	**Vent 24**	**Vent 25**	**Vent 26**	**Vent 27**
10/15/2020	0	0	0	0	0	25	12	4	0
1/12/2021	0	0	0	3	0	74	45	5	0
4/12/2021	0	0	0	0	2.2	101	101	46	0
7/1/2021	0	0	0	0	0	101	101	39	0
10/6/2021	0	0	0	0	0	101	101	34.5	0
1/18/2022	0	0	0	0	0	101	101	39.8	0
4/15/2022	0	0	0	0	8.6	101	101	60.5	0
7/13/2022	0	0	0	0	0	101	101	34.2	0
10/25/2022	0	0	31.3	0	2.6	101	101	44.7	0
1/9/2023	0	0	0	0	0	101	101	50	0
4/3/2023	0	0	0	0	7.6	101	101	101	0
7/10/2023	0	0	0	0	0	101	101	46.2	0
10/16/2023	0	0	0	0	0	101	101	43	0
1/22/2024	0	0	0	0	0	101	101	36.6	0
4/22/2024	0	0	0	0	3.2	101	101	63.2	0
7/24/2024	0	0	0	0	0	101	101	50	0
10/7/2024	0	0	0	0	0	101	101	0	0

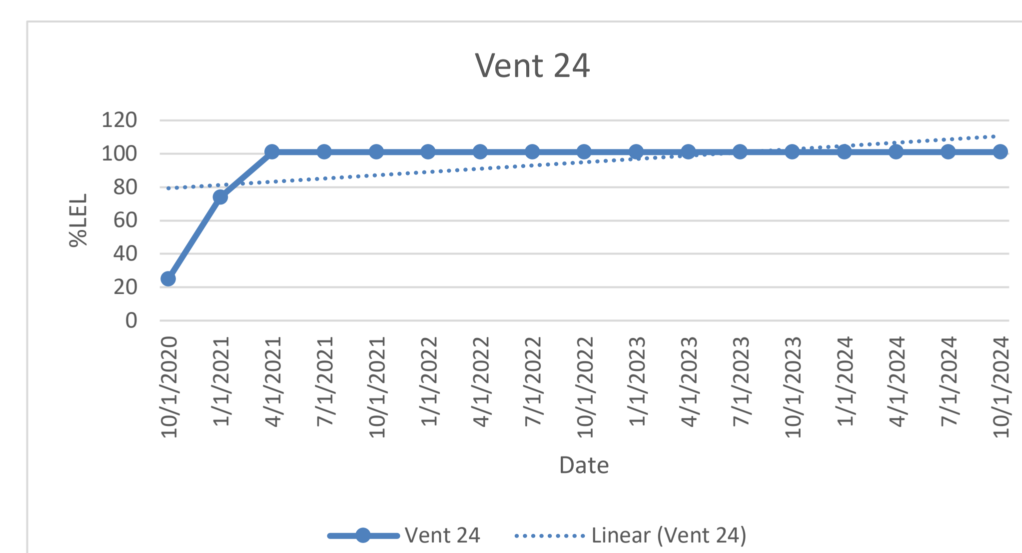


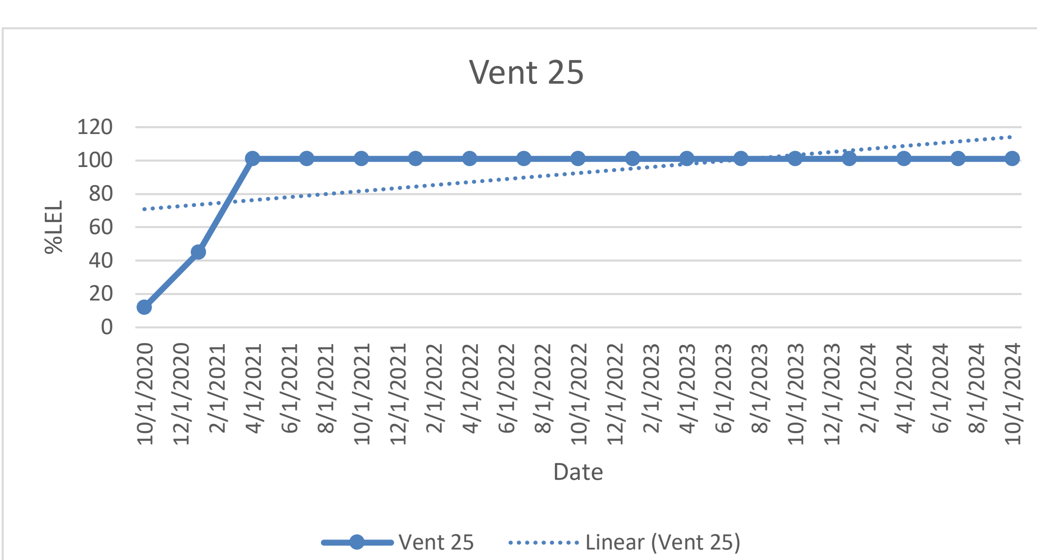


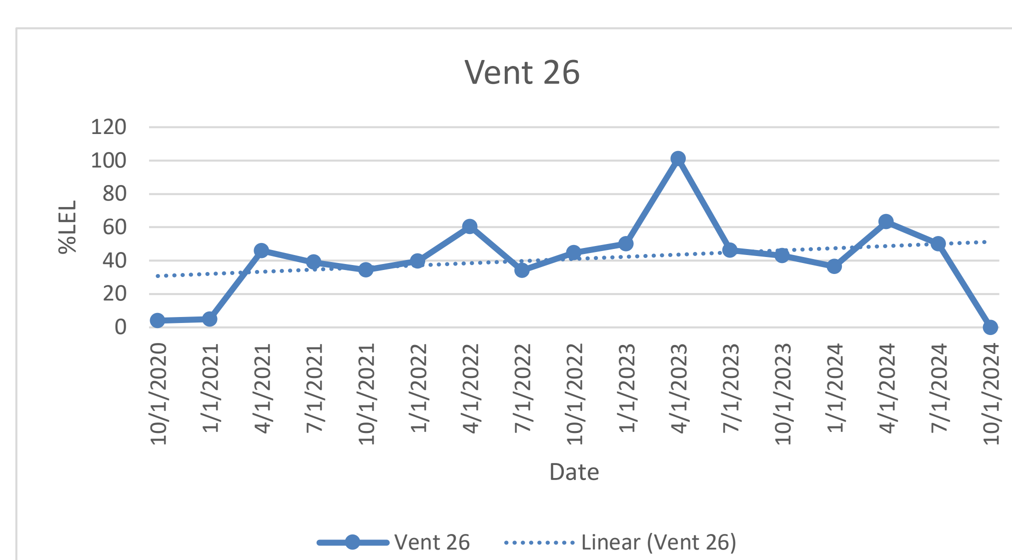












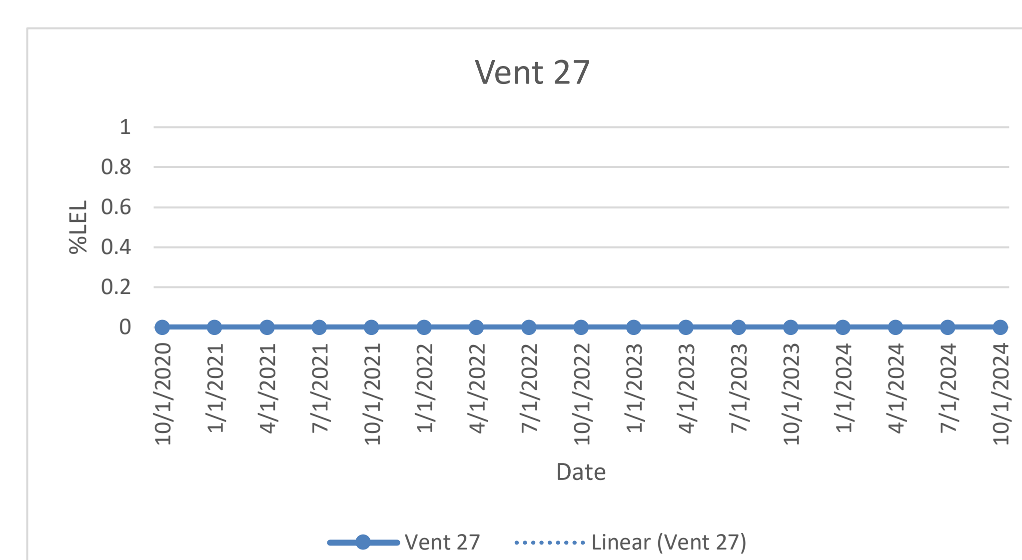


Table 13

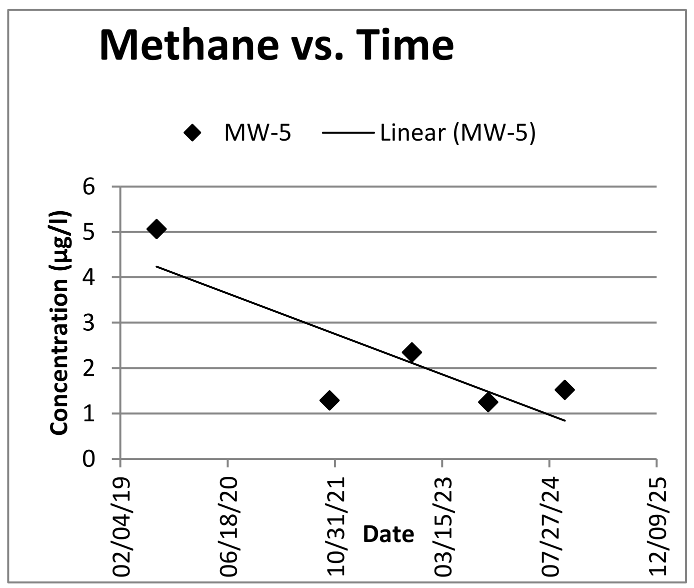
Methane, Ethane, Ethene, Alkalinity, and pH over Time

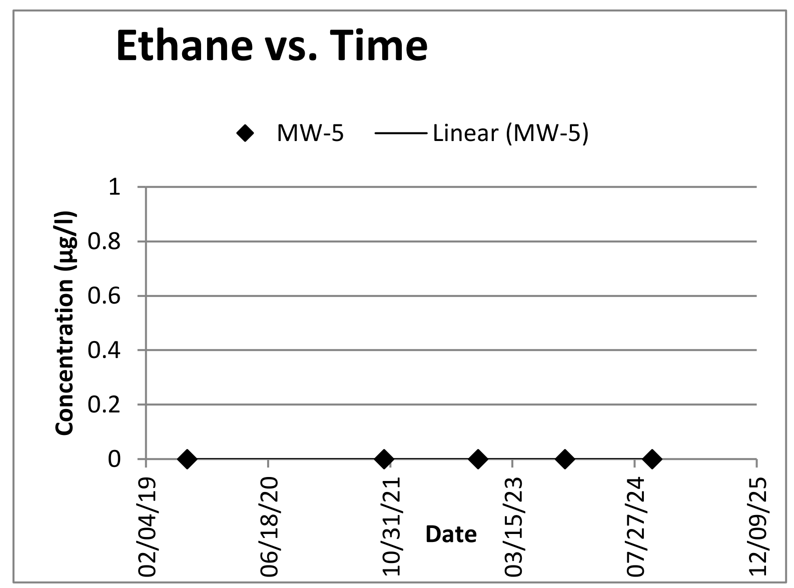
Annual Water Quality Report

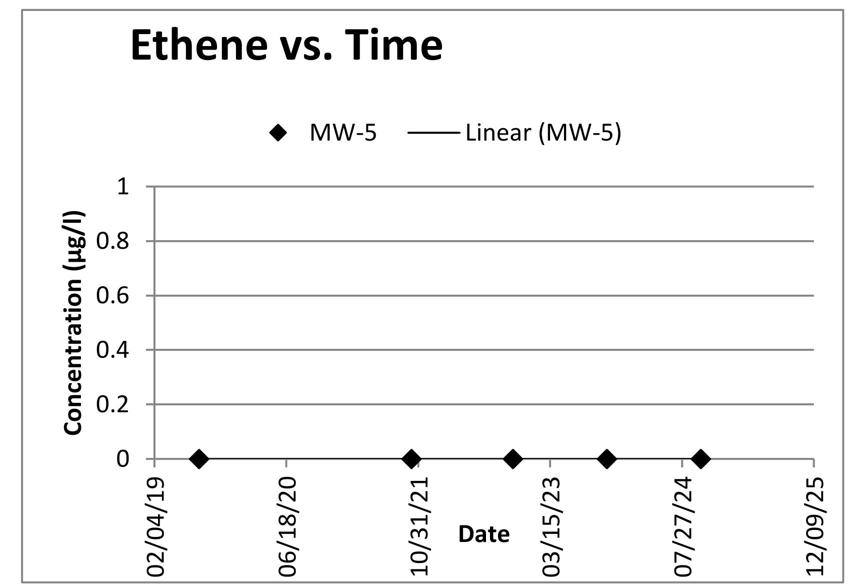
Fayette County Sanitary Landfill

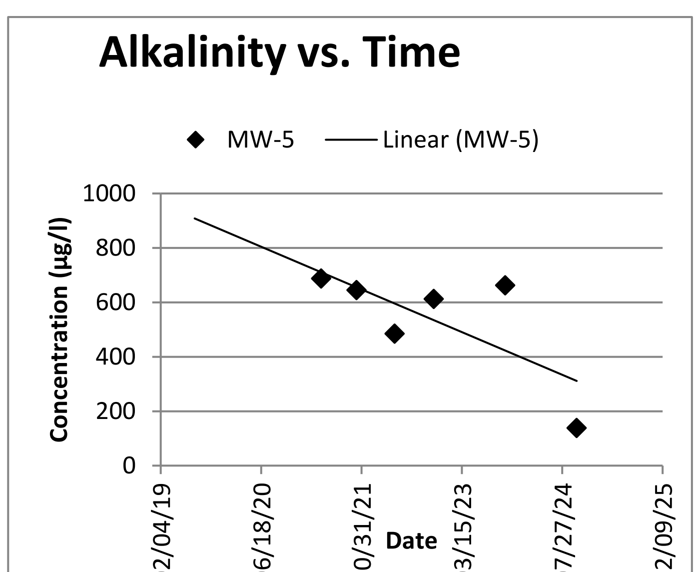
Permit No. 33-SDP-02-83C

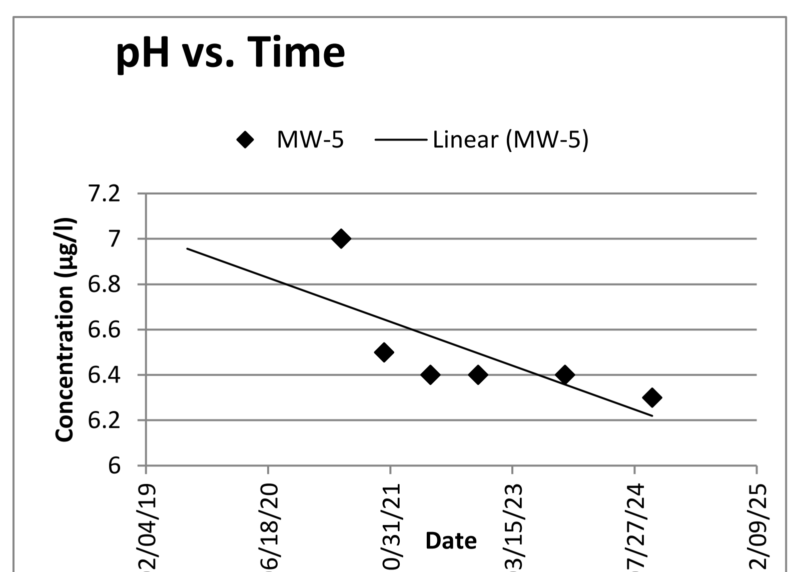
	Methane	Ethane	Ethene	Alkalinity	pH
	MW-5	MW-5	MW-5	MW-5	MW-5
Sample Date	mg/L	mg/L	mg/L	mg/l	ug/L
7/23/2019	5.06	<0.010	<0.010		
4/13/2021				688	7
10/6/2021	1.29	<0.00773	<0.00828	645	6.5
4/14/2022				485	6.4
10/25/2022	2.35	<0.00773	<0.00828	612	6.4
10/16/2023	1.25	<0.00773	<0.00828	663	6.4
10/7/2024	1.52	<0.005	<0.005	138	6.3











Appendix H

Leachate Collection System Performance Evaluation Report

Leachate Collection System Performance Evaluation Report

Leachate System Performance

Cell 1, Cell 2, and Cell NEX – Each of these lined disposal areas was constructed with leachate collection piping. Details on the leachate collection system are included on Figure 4.

Collected leachate is pumped to the above ground leachate storage tank. The tank has a capacity of approximately 15,000 gallons. When tank levels warrant, leachate is hauled to the City of Oelwein POTW for treatment and disposal. The treatment agreement with the City of Oelwein is included in Appendix H.1. Approximately 68,544 gallons of leachate were hauled to the City of Oelwein in 2024 (Appendix H.2). Leachate testing results from 2024 are included in Appendix H.3.

Leachate Head Monitoring Points

Leachate head monitoring points LPZ-9 and LPZ-10 are located in the unlined “Old Landfill” Area.

Leachate head monitoring point North Manhole is located in the RCRA Lined Cell 2A Expansion Area.

Leachate head monitoring point South Manhole is located in the RCRA Lined Cell 1A/1D Expansion Area.

Leachate head monitoring point NEX SE Riser is located in the RCRA Lined Cell NEX Expansion Area.

Measurements from the leachate head monitoring points are included on the table in Appendix H.4. Measurements in 2024 showed consistent leachate thicknesses over the course of the year with the exception of the leachate thickness recorded at the NEX SE Riser during the April, 2024 measurement (23.2 feet). The leachate thickness showed a decreasing trend over the last two quarters of the year with leachate thickness of 6.9 feet in July, 2024 and 1.7 feet in October, 2024.

The required frequency of measurements in the leachate head monitoring points was changed from monthly to quarterly in Permit Amendment #6 dated May 10, 2017.

Leachate Line Cleaning

The leachate lines were cleaned in October, 2024. IAC 567-113.7(5)b(5) requires that the leachate system be cleaned every three (3) years at a minimum. The leachate lines should be cleaned again in 2027 in accordance with regulations.

Performance Evaluation

No modifications to the leachate collection system are recommended for next year.

Appendix H.1 – Treatment Agreement with Oelwein POTW

STATE OF IOWA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROGRAM
AMENDMENT TO NPDES PERMIT

Iowa NPDES Permit #:	3353001
Date of Issuance:	June 1, 2021
Date of Expiration:	May 31, 2026
Date of this Amendment:	**May 1, 2023**
EPA Number:	IA0032344

Name and Mailing Address of Applicant:

CITY OF OELWEIN
20 2ND AVE. SW
OELWEIN, IA 50662

Identity and Location of Facility:

OELWEIN CITY OF STP
Section 29, Township 91, Range 09W, Fayette County

Pursuant to the authority Iowa Code Section 455B.174, and of Rule 567--64.3, Iowa Administrative Code, the Director of the Iowa Department of Natural Resources has issued the above referenced permit. Pursuant to the same authority the Director hereby amends said permit as set forth below:

Enclosed is the approved permit amendment for the City of Oelwein's wastewater treatment plant. At the request of the City, the remaining dates in the Nutrient Reduction Strategy are being adjusted to allow the City additional time to complete treatment plant construction. Please replace your entire permit with the enclosed permit.

For the Department of Natural Resources:

By____________________________________
Ryan Olive
NPDES Section
ENVIRONMENTAL SERVICES DIVISION

STATE OF IOWA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROGRAM
AMENDMENT TO NPDES PERMIT

Iowa NPDES Permit #:	3353001
Date of Issuance:	June 1, 2021
Date of Expiration:	May 31, 2026
Date of this Amendment:	**October 1, 2021**
EPA Number:	IA0032344

Name and Mailing Address of Applicant:

CITY OF OELWEIN
20 2ND AVENUE SW
OELWEIN, IA 50662-2241

Identity and Location of Facility:

OELWEIN CITY OF STP
Section 29, Township 91, Range 09W, Fayette County

Pursuant to the authority Iowa Code Section 455B.174, and of Rule 567--64.3, Iowa Administrative Code, the Director of the Iowa Department of Natural Resources has issued the above referenced permit. Pursuant to the same authority the Director hereby amends said permit as set forth below:

Enclosed is the NPDES permit amendment for the City of Oelwein's wastewater treatment facility. Due to a clerical error, methyl chloride was included as a monitoring requirement for DCW Casing. The correct parameter should have been methylene chloride and has been corrected with this amendment. The effective date of this amendment is October 1, 2021.

Please replace your entire permit with the enclosed permit.

For the Department of Natural Resources:

By____________________________________

Ryan Olive
NPDES Section
ENVIRONMENTAL SERVICES DIVISION

IOWA DEPARTMENT OF NATURAL RESOURCES

National Pollutant Discharge Elimination System (NPDES) Permit

OWNER NAME & ADDRESS

CITY OF OELWEIN
20 2ND AVE. SW
OELWEIN, IA 50662-2241

FACILITY NAME & ADDRESS

OELWEIN CITY OF STP
500 9TH AVE. SW
OELWEIN, IA 50662

Section 29, T91N, R09W
Fayette County

IOWA NPDES PERMIT NUMBER: 3353001
DATE OF ISSUANCE: 06/01/2021
DATE OF EXPIRATION: 05/31/2026

YOU ARE REQUIRED TO FILE FOR RENEWAL OF THIS PERMIT BY: 12/02/2025
EPA NUMBER: IA0032344

This permit is issued pursuant to the authority of section 402(b) of the Clean Water Act (33 U.S.C. 1342(b)), Iowa Code section 455B.174, and rule 567-64.3, Iowa Administrative Code. You are authorized to operate the disposal system and to discharge the pollutants specified in this permit in accordance with the effluent limitations, monitoring requirements and other terms set forth in this permit.

You may appeal any condition of this permit by filing a written notice of appeal and request for administrative hearing with the director of the department within 30 days of permit issuance.

Any existing, unexpired Iowa operation permit or Iowa NPDES permit previously issued by the department for the facility identified above is revoked by the issuance of this permit. This provision does not apply to any authorization to discharge under the terms and conditions of a general permit issued by the department or to any permit issued exclusively for the discharge of stormwater.

FOR THE DEPARTMENT OF NATURAL RESOURCES

By ____

Ryan Olive
NPDES Section, Environmental Services Division

Facility Name: OELWEIN CITY OF STP

Permit Number: 3353001

Outfall No.: 002 DISCHARGE FROM A SEQUENCING BATCH REACTOR ACTIVATED SLUDGE WASTEWATER TREATMENT FACILITY

Receiving Stream: OTTER CREEK

Route of Flow: OTTER CREEK

Class A3 waters are children's recreational use waters in which recreational uses by children are common. Class A3 waters are water bodies having definite banks and bed with visible evidence of flow or occurrence of water. This type of use would primarily occur in urban or residential areas.

Waters designated Class B(WW2) are those in which flow or other physical characteristics are capable of supporting a resident aquatic community that includes a variety of native nongame fish and invertebrate species. The flow and other physical characteristics limit the maintenance of warm water game fish populations. These waters generally consist of small perennially flowing streams.

Outfall No.: 004 BYPASS FROM THE FLOW EQUALIZATION BASIN OVERFLOW

Receiving Stream: UNNAMED CREEK

Route of Flow: UNNAMED CREEK TO OTTER CREEK

Class A1 waters are primary contact recreational use waters in which recreational or other uses may result in prolonged and direct contact with the water, involving considerable risks of ingesting water in quantities sufficient to pose a health hazard. Such activities would include, but not be limited to, swimming, diving, water skiing, and water contact recreational canoeing.

Waters designated Class B(WW1) are those in which temperature, flow and other habitat characteristics are suitable to maintain warm water game fish populations along with a resident aquatic community that includes a variety of native nongame fish and invertebrates species. These waters generally include border rivers, large interior rivers, and the lower segments of medium-size tributary streams.

Bypasses from any portion of a treatment facility or from a sanitary sewer collection system designed to carry only sewage are prohibited.

Facility Name: OELWEIN CITY OF STP
Permit Number: 3353001

Effluent Limitations:

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

002 DISCHARGE FROM A SEQUENCING BATCH REACTOR ACTIVATED SLUDGE WASTEWATER TREATMENT FACILITY

Outfall: 002 Effective Dates: 06/01/2021 to 05/31/2026				
Parameter	**Season**	**Limit Type**	**Limits**	
CBOD5			**85% Removal Required**	
	Yearly	7 Day Average	40 MG/L	887 LBS/DAY
	Yearly	30 Day Average	25 MG/L	555 LBS/DAY
TOTAL SUSPENDED SOLIDS			**85% Removal Required**	
	Yearly	7 Day Average	45 MG/L	998 LBS/DAY
	Yearly	30 Day Average	30 MG/L	666 LBS/DAY
AMMONIA NITROGEN (N)				
	JAN	30 Day Average	6.4 MG/L	135.6 LBS/DAY
	JAN	Daily Maximum	15.6 MG/L	305.3 LBS/DAY
	FEB	30 Day Average	7.4 MG/L	152.8 LBS/DAY
	FEB	Daily Maximum	14.7 MG/L	319.3 LBS/DAY
	MAR	30 Day Average	3.9 MG/L	75 LBS/DAY
	MAR	Daily Maximum	13.3 MG/L	254.9 LBS/DAY
	APR	30 Day Average	2.8 MG/L	53.7 LBS/DAY
	APR	Daily Maximum	9.1 MG/L	175.5 LBS/DAY
	MAY	30 Day Average	2.5 MG/L	46.7 LBS/DAY
	MAY	Daily Maximum	9.2 MG/L	176.8 LBS/DAY
	JUN	30 Day Average	1.8 MG/L	33.7 LBS/DAY

Facility Name: OELWEIN CITY OF STP

Permit Number: 3353001

Outfall: 002 Effective Dates: 06/01/2021 to 05/31/2026				
Parameter	**Season**	**Limit Type**	**Limits**	
AMMONIA NITROGEN (N)				
	JUN	Daily Maximum	8 MG/L	133.2 LBS/DAY
	JUL	30 Day Average	1.6 MG/L	28.9 LBS/DAY
	JUL	Daily Maximum	6.3 MG/L	104.4 LBS/DAY
	AUG	30 Day Average	1.5 MG/L	26.3 LBS/DAY
	AUG	Daily Maximum	6.3 MG/L	102.2 LBS/DAY
	SEP	30 Day Average	2 MG/L	37.3 LBS/DAY
	SEP	Daily Maximum	7.4 MG/L	124.4 LBS/DAY
	OCT	30 Day Average	2.9 MG/L	64.6 LBS/DAY
	OCT	Daily Maximum	11.2 MG/L	182.1 LBS/DAY
	NOV	30 Day Average	4.3 MG/L	88.6 LBS/DAY
	NOV	Daily Maximum	9.2 MG/L	175.8 LBS/DAY
	DEC	30 Day Average	4.6 MG/L	102.7 LBS/DAY
	DEC	Daily Maximum	11 MG/L	211.7 LBS/DAY
ACUTE TOXICITY, CERIODAPHNIA				
	Yearly	Daily Maximum	1 NO TOXICITY	
ACUTE TOXICITY, PIMEPHALES				
	Yearly	Daily Maximum	1 NO TOXICITY	

Facility Name: OELWEIN CITY OF STP

Permit Number: 3353001

Outfall: 002 Effective Dates: 06/01/2021 to 05/31/2026			
Parameter	**Season**	**Limit Type**	**Limits**
DISSOLVED OXYGEN			
	Yearly	Daily Minimum	5.0 MG/L
PH			
	Yearly	Daily Maximum	9.0 STD UNITS
	Yearly	Daily Minimum	6.5 STD UNITS
E. COLI			
	MAR	Geometric Mean	126 #/100 ML
	APR	Geometric Mean	126 #/100 ML
	MAY	Geometric Mean	126 #/100 ML
	JUN	Geometric Mean	126 #/100 ML
	JUL	Geometric Mean	126 #/100 ML
	AUG	Geometric Mean	126 #/100 ML
	SEP	Geometric Mean	126 #/100 ML
	OCT	Geometric Mean	126 #/100 ML
	NOV	Geometric Mean	126 #/100 ML
ANNUAL AVERAGE NITROGEN DISCHARGED (AS N)			
	Yearly	Annual Average	113 LBS/DAY

Facility Name: OELWEIN CITY OF STP

Permit Number: 3353001

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: OELWEIN CITY OF STP
Permit Number: 3353001

Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
The following monitoring requirements shall be in effect from 06/01/2021 to 05/31/2026				
002	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	RAW WASTE - TOTAL
002	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	RAW WASTE - STORM WATER BASIN RETURN
002	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	RAW WASTE - STORM WATER BASIN INFLUENT
002	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	RAW WASTE - MECHANICAL PLANT INFLUENT
002	BIOCHEMICAL OXYGEN DEMAND (BOD5)	2 TIMES PER WEEK	24 HOUR COMPOSITE	RAW WASTE
002	NITROGEN, TOTAL (AS N)	1 TIME PER WEEK	24 HOUR COMPOSITE	RAW WASTE
002	NITROGEN, TOTAL KJELDAHL (AS N)	1 EVERY MONTH	24 HOUR COMPOSITE	RAW WASTE
002	PH	2 TIMES PER WEEK	GRAB	RAW WASTE
002	PHOSPHORUS, TOTAL (AS P)	1 TIME PER WEEK	24 HOUR COMPOSITE	RAW WASTE
002	TEMPERATURE	2 TIMES PER WEEK	GRAB	RAW WASTE
002	TOTAL SUSPENDED SOLIDS	2 TIMES PER WEEK	24 HOUR COMPOSITE	RAW WASTE
002	ANNUAL AVERAGE NITROGEN DISCHARGED (AS N)	1 EVERY 12 MONTHS	CALCULATED	FINAL EFFLUENT
002	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	FINAL EFFLUENT
002	ACUTE TOXICITY, CERIODAPHNIA	1 EVERY 12 MONTHS	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
002	ACUTE TOXICITY, PIMEPHALES	1 EVERY 12 MONTHS	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION

Facility Name: OELWEIN CITY OF STP

Permit Number: 3353001

Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
The following monitoring requirements shall be in effect from 06/01/2021 to 05/31/2026				
002	AMMONIA NITROGEN (N)	2 TIMES PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
002	CBOD5	2 TIMES PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
002	CYANIDE, TOTAL (AS CN)	1 EVERY MONTH	GRAB	EFFLUENT AFTER DISINFECTION
002	DISSOLVED OXYGEN	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
002	E. COLI	GEO. MEAN 1/3 MONTHS	GRAB	EFFLUENT AFTER DISINFECTION
002	NITROGEN, TOTAL (AS N)	1 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
002	PH	5 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
002	PHOSPHORUS, TOTAL (AS P)	1 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
002	TEMPERATURE	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
002	TOTAL SUSPENDED SOLIDS	2 TIMES PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION

Facility Name: OELWEIN CITY OF STP
Permit Number: 3353001

Special Monitoring Requirements

Outfall # **Description**

002 **FLOW**

To calculate the total raw waste flow (TOTAL RAW WASTE FLOW = MECHAINICAL 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 of 126 org/100 ml specified on page 5 of this permit for outfall(s) 002 is a geometric mean. The disinfection season is established in the Iowa Administrative Code, Subparagraph 567 IAC 61.3(3)“a”(1), and is in effect from March 15 to November 15. Any disinfection system (chlorine, UV light, etc.) shall be operated to comply with the limit during the entire disinfection season whenever wastewater is being discharged from outfall(s) 001.

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: OELWEIN CITY OF STP

Permit Number: 3353001

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.
If you have exactly five samples, use the geometric mean calculator on the Iowa DNR webpage at: http://www.iowadnr.gov/Environmental-Protection/Water-Quality/NPDES-Wastewater-Permitting/NPDES-Operator-Information/Bacteria-Sampling

ANNUAL AVERAGE NITROGEN DISCHARGED (AS N)

ANNUALLY FROM THE PERMIT ISSUANCE DATE OF JUNE 1, 2021, CALCULATE THE AVERAGE OF ALL TOTAL NITROGEN MASS (LBS/DAY) SAMPLE RESULTS FROM THE PREVIOUS 12 MONTHS. REPORT THE ANNUAL AVERAGE IN THE (NEXT MONTHS) DISCHARGE MONITORING REPORT (DMR) EACH YEAR.

CALCULATION: SUM OF ALL MASS MEASUREMENTS (LBS/DAY) IN THE LAST 12 MONTHS DIVIDED BY THE TOTAL NUMBER OF MEASUREMENTS IN THE LAST 12 MONTHS.

Mixing Zone Special Monitoring Requirements

The effluent limits in this permit are based on a mixing zone study. The default mixing zone and zone of initial dilution will be used to calculate effluent limits for the renewal permit unless a new mixing zone study is completed. If a new mixing zone study is conducted, it shall be submitted with the permit renewal application.

The permittee is authorized to conduct a mixing zone study under the following conditions:

1) The mixing zone study shall use one of the following dyes:
   a) Rhodamine WT dye
   b) FWT red dye tablets
   c) FLT Yellow/Green Liquid Concentrate dye
   d) Green Sewer Tracing Dye
   e) Fluorescent FLT Yellow/Green Powder
   f) Bright Dye FWT Red Dye
   g) FLT Yellow/Green dye tablets

   If a dye other than one listed above is used, you must obtain permission from the Department prior to use of the dye. Please contact Katie Greenstein at (515) 725-8400 or katie.greenstein@dnr.iowa.gov for approval of dyes other than those listed above.

2) The dye shall be used according to the instructions provided by the manufacturer;

3) The introduction of the dye into the receiving stream shall be limited to as short a time period as possible and the amount of dye used shall be as little as possible;

4) The mixing zone study shall be conducted during low river flow conditions and it shall follow the DNR Mixing Zone Study Guidelines;

5) The mixing zone study report shall include clear documentation of the mixing characteristics and the percentages of the total river flows in the mixing zone;

6) The following restrictions to the maximum allowed mixing zone shall be recorded in the mixing zone study documentation:
   a) The distance to the juncture of two perennial streams.
   b) The distance to a public water supply intake.
   c) The distance to the upstream limits of an established recreational area, such as public beaches, and state, county and local parks.
   d) The distance to the middle of a crossover point in a stream where the main current flows from one bank across to the opposite bank.
   e) The distance to another mixing zone.

7) The mixing zone does not exceed a distance of 2000 feet; and

8) The DNR Field Office #1 in Manchester shall be notified by calling 563-927-2640 at least 48 hours prior to the use of dye.

Please contact Katie Greenstein at (515) 725-8400 or katie.greenstein@dnr.iowa.gov for questions regarding mixing zone studies.

Facility Name: OELWEIN CITY OF STP
Permit Number: 3353001

Significant Industrial User Discharges:

Significant Industrial User: FAYETTE COUNTY SOLID WASTE MANAGEMENT COMMISSION

Outfall # **Outfall Description**

001 **BATCH DISCHARGE TO THE MUNICIPAL COLLECTION SYSTEM VIA A DESIGNATED MANHOLE**

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

FAYETTE COUNTY SOLID WASTE MANAGEMENT COMMISSION
Outfall: 001 Effective Dates: 06/01/2021 to 05/31/2026

Parameter	Season	Limit Type	Limit Values
FLOW			
	Yearly	30 Day Average	0.014 MGD
	Yearly	DAILY MAXIMUM	0.014 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	25 LBS/DAY
	Yearly	DAILY MAXIMUM	25 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	30 LBS/DAY
	Yearly	DAILY MAXIMUM	30 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	45 LBS/DAY
	Yearly	DAILY MAXIMUM	45 LBS/DAY
ZINC, TOTAL (AS ZN)			
	Yearly	30 Day Average	0.632 MG/L 0.0685 LBS/DAY
	Yearly	DAILY MAXIMUM	18.0 MG/L 1.95 LBS/DAY
BARIUM, TOTAL (AS BA)			
	Yearly	30 Day Average	2.20 MG/L 0.2385 LBS/DAY
	Yearly	DAILY MAXIMUM	2.20 MG/L 0.2385 LBS/DAY

Facility Name: OELWEIN CITY OF STP

Permit Number: 3353001

CADMIUM, TOTAL (AS CD)			
	Yearly	30 Day Average	0.004 MG/L 0.00043 LBS/DAY
	Yearly	DAILY MAXIMUM	0.008 MG/L 0.00087 LBS/DAY
CHEMICAL OXYGEN DEMAND			
	Yearly	30 Day Average	115 LBS/DAY
	Yearly	DAILY MAXIMUM	115 LBS/DAY
IRON, TOTAL (AS FE)			
	Yearly	30 Day Average	40.0 MG/L 4.34 LBS/DAY
	Yearly	DAILY MAXIMUM	40.0 MG/L 4.34 LBS/DAY
MAGNESIUM, TOTAL (AS MG)			
	Yearly	30 Day Average	255 MG/L 27.6 LBS/DAY
	Yearly	DAILY MAXIMUM	255 MG/L 27.6 LBS/DAY
MERCURY, TOTAL (AS HG)			
	Yearly	30 Day Average	0.0003 MG/L 0.000033 LBS/DAY
	Yearly	DAILY MAXIMUM	0.0005 MG/L 0.000054 LBS/DAY
NITROGEN, TOTAL KJELDAHL (AS N)			
	Yearly	30 Day Average	50 LBS/DAY
	Yearly	DAILY MAXIMUM	50 LBS/DAY
OIL AND GREASE			
	Yearly	30 Day Average	100 MG/L
	Yearly	DAILY MAXIMUM	100 MG/L
ARSENIC, TOTAL (AS AS)			
	Yearly	30 Day Average	0.05 MG/L 0.0054 LBS/DAY
	Yearly	DAILY MAXIMUM	0.05 MG/L 0.0054 LBS/DAY
COPPER, TOTAL (AS CU)			
	Yearly	30 Day Average	0.17 MG/L 0.0184 LBS/DAY
	Yearly	DAILY MAXIMUM	0.17 MG/L 0.0184 LBS/DAY

Facility Name: OELWEIN CITY OF STP

Permit Number: 3353001

FAYETTE COUNTY SOLID WASTE MANAGEMENT COMMISSION
Outfall: 001 Effective Dates: 06/01/2021 to 05/31/2026

Parameter	Season	Limit Type	Limit Values
LEAD, TOTAL (AS PB)			
	Yearly	30 Day Average	0.056 MG/L 0.0061 LBS/DAY
	Yearly	DAILY MAXIMUM	0.156 MG/L 0.0169 LBS/DAY
BIS (2-ETHYLHEXYL) PHTHALATE			
	Yearly	30 Day Average	0.01 MG/L 0.0012 LBS/DAY
	Yearly	DAILY MAXIMUM	0.01 MG/L 0.0012 LBS/DAY
PH			
	Yearly	DAILY MAXIMUM	9.5 STD UNITS
	Yearly	DAILY MINIMUM	5.0 STD UNITS

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: OELWEIN CITY OF STP

Permit Number: 3353001

FAYETTE COUNTY SOLID WASTE MANAGEMENT COMMISSION				
Outfall	**Wastewater Parameter**	**Sample Frequency**	**Sample Type**	**Monitoring Location**
001	AMMONIA NITROGEN (N)	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	ARSENIC, TOTAL (AS AS)	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BARIUM, TOTAL (AS BA)	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIS (2-ETHYLHEXYL) PHTHALATE	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	CADMIUM, TOTAL (AS CD)	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	CHEMICAL OXYGEN DEMAND	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	COPPER, TOTAL (AS CU)	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	1 EVERY BATCH	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	IRON, TOTAL (AS FE)	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	LEAD, TOTAL (AS PB)	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	MAGNESIUM, TOTAL (AS MG)	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	MERCURY, TOTAL (AS HG)	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	NITROGEN, TOTAL KJELDAHL (AS N)	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1 TIME PER WEEK	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 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	ZINC, TOTAL (AS ZN)	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

Facility Name: OELWEIN CITY OF STP

Permit Number: 3353001

ADDITIONAL MONITORING REQUIREMENTS

FAYETTE COUNTY SOLID WASTE MANAGEMENT COMMISSION

The permittee shall analyze a representative sample of the landfill leachate discharge from Fayette County Solid Waste Management Commission at least annually for each of the pollutants listed below. Also, the permittee shall monitor the volume of waste discharged and BOD5, TSS, TKN, Ammonia Nitrogen, Oil and Grease at the frequencies specified on page 16 of this permit.

Pollutant

Biochemical Oxygen Demand (BOD5)
Total Suspended Solids
Ammonia Nitrogen (NH3-N)
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 (Test Method EPA-RCA 8270D)
Chlorobenzene (Test Methods EPA 1624, 601, 602; Standard Methods 6200B, 6200C)
Ethylbenzene (Test Methods EPA 1624, 601, 602; Standard Methods 6200B, 6200C)
p-Cresol (Test Methods EPA-RCA 8270D, 8041A; USGS-NWQL O-1433-01, O-4433-06)
Phenol (Test Methods EPA 1625, 604, 625; Standard Methods 6410B, 6420B)
Toluene (Test Methods EPA 1624, 602, 624; Standard Methods 6200B, 6200C)

Results of annual monitoring shall be submitted to the addresses below:

Julie Faas	Field Office 1
502 E 9^{th} St	909 West Main Street Suite 4
Des Moines, IA 50310	Manchester, IA 52057-1522

Facility Name: OELWEIN CITY OF STP
Permit Number: 3353001

Significant Industrial User Discharges:

Significant Industrial User: DCW CASING LLC

Outfall #	**Outfall Description**
001	**NEUTRALIZED BATCH DISCHARGE TO THE MUNICIPAL COLLECTION SYSTEM VIA A DESIGNATED MANHOLE**

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

DCW CASING LLC
Outfall: 001 Effective Dates: 06/01/2021 to 05/31/2026

Parameter	**Season**	**Limit Type**	**Limit Values**
FLOW			
	Yearly	30 Day Average	0.18 MGD
	Yearly	DAILY MAXIMUM	0.24 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	394 LBS/DAY
	Yearly	DAILY MAXIMUM	517 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	364 LBS/DAY
	Yearly	DAILY MAXIMUM	467 LBS/DAY
CHLORIDE (AS CL)			
	Yearly	30 Day Average	3,065 LBS/DAY
	Yearly	DAILY MAXIMUM	4,500 LBS/DAY
CYANIDE, TOTAL (AS CN)			
	Yearly	30 Day Average	0.033 MG/L 0.0495 LBS/DAY
	Yearly	DAILY MAXIMUM	0.10 MG/L 0.1501 LBS/DAY
CHEMICAL OXYGEN DEMAND			
	Yearly	30 Day Average	890 LBS/DAY
	Yearly	DAILY MAXIMUM	1,025 LBS/DAY

Facility Name: OELWEIN CITY OF STP

Permit Number: 3353001

NITROGEN, TOTAL KJELDAHL (AS N)			
	Yearly	30 Day Average	75 LBS/DAY
	Yearly	DAILY MAXIMUM	115 LBS/DAY
OIL AND GREASE			
	Yearly	30 Day Average	100 MG/L
	Yearly	DAILY MAXIMUM	100 MG/L
SULFATE, TOTAL (AS SO4)			
	Yearly	30 Day Average	1,500 MG/L 1,500 LBS/DAY
	Yearly	DAILY MAXIMUM	3,000 MG/L 2,250 LBS/DAY
SULFIDE, TOTAL (AS S)			
	Yearly	30 Day Average	2.0 MG/L
	Yearly	DAILY MAXIMUM	2.0 MG/L
METHYLENE CHLORIDE			
	Yearly	30 Day Average	0.7 MG/L 1.0508 LBS/DAY
	Yearly	DAILY MAXIMUM	3.0 MG/L 4.5036 LBS/DAY
ACETONE			
	Yearly	30 Day Average	8.2 MG/L 12.31 LBS/DAY
	Yearly	DAILY MAXIMUM	20.7 MG/L 31.075 LBS/DAY
PH			
	Yearly	DAILY MAXIMUM	9.5 STD UNITS
	Yearly	DAILY MINIMUM	5.5 STD UNITS
ETHYL ACETATE			
	Yearly	30 Day Average	8.2 MG/L 12.31 LBS/DAY
	Yearly	DAILY MAXIMUM	20.7 MG/L 31.075 LBS/DAY
N-AMYL ACETATE			
	Yearly	30 Day Average	8.2 MG/L 12.31 LBS/DAY
	Yearly	DAILY MAXIMUM	20.7 MG/L 31.075 LBS/DAY
ISOPROPYL ACETATE			
	Yearly	30 Day Average	8.2 MG/L 12.31 LBS/DAY
	Yearly	DAILY MAXIMUM	20.7 MG/L 31.075 LBS/DAY

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: OELWEIN CITY OF STP

Permit Number: 3353001

DCW CASING LLC				
Outfall	**Wastewater Parameter**	**Sample Frequency**	**Sample Type**	**Monitoring Location**
001	ACETONE	1 EVERY 3 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1 TIME PER WEEK	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	CHEMICAL OXYGEN DEMAND	2 PER MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	CHLORIDE (AS CL)	1 TIME PER WEEK	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	CYANIDE, TOTAL (AS CN)	2 PER MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	ETHYL ACETATE	1 EVERY 3 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	ISOPROPYL ACETATE	1 EVERY 3 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	METHYLENE CHLORIDE	1 EVERY 3 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	N-AMYL ACETATE	1 EVERY 3 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	NITROGEN, TOTAL KJELDAHL (AS N)	1 TIME PER WEEK	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	2 PER MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	2 PER MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SULFATE, TOTAL (AS SO4)	1 TIME PER WEEK	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	SULFIDE, TOTAL (AS S)	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	2 PER MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER

Facility Name: OELWEIN CITY OF STP
Permit Number: 3353001

Significant Industrial User Discharges:

Significant Industrial User: EAST PENN MANUFACTURING CO. INC

Outfall #	**Outfall Description**
001	**EFFLUENT (WASTE) PRIOR TO DISCHARGE TO MUNICIPAL COLLECTION SYSTEM.**

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

EAST PENN MANUFACTURING CO. INC
Outfall: 001 Effective Dates: 06/01/2021 to 05/31/2026

Parameter	Season	Limit Type	Limit Values
FLOW			
	Yearly	30 Day Average	0.0653 MGD
	Yearly	DAILY MAXIMUM	0.067 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	120 LBS/DAY
	Yearly	DAILY MAXIMUM	123 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	136 LBS/DAY
	Yearly	DAILY MAXIMUM	140 LBS/DAY
NITROGEN, TOTAL KJELDAHL (AS N)			
	Yearly	30 Day Average	19 LBS/DAY
	Yearly	DAILY MAXIMUM	19.6 LBS/DAY
OIL AND GREASE			
	Yearly	30 Day Average	100 MG/L
	Yearly	DAILY MAXIMUM	100 MG/L
SULFATE, TOTAL (AS SO4)			
	Yearly	30 Day Average	2,754 MG/L 1,000 LBS/DAY
	Yearly	DAILY MAXIMUM	4,131 MG/L 1,500 LBS/DAY

Facility Name: OELWEIN CITY OF STP

Permit Number: 3353001

COPPER, TOTAL (AS CU)			
	Yearly	30 Day Average	0.367 MG/L 0.20 LBS/DAY
	Yearly	DAILY MAXIMUM	0.477 MG/L 0.26 LBS/DAY
LEAD, TOTAL (AS PB)			
	Yearly	30 Day Average	0.110 MG/L 0.06 LBS/DAY
	Yearly	DAILY MAXIMUM	0.220 MG/L 0.12 LBS/DAY
BIS (2-ETHYLHEXYL) PHTHALATE			
	Yearly	30 Day Average	0.01 MG/L 0.005 LBS/DAY
	Yearly	DAILY MAXIMUM	0.01 MG/L 0.005 LBS/DAY
PH			
	Yearly	DAILY MAXIMUM	9.5 STD UNITS
	Yearly	DAILY MINIMUM	5.5 STD UNITS

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: OELWEIN CITY OF STP
Permit Number: 3353001

EAST PENN MANUFACTURING CO. INC				
Outfall	**Wastewater Parameter**	**Sample Frequency**	**Sample Type**	**Monitoring Location**
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	BIS (2-ETHYLHEXYL) PHTHALATE	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	COPPER, TOTAL (AS CU)	1 TIME PER WEEK	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	LEAD, TOTAL (AS PB)	1 TIME PER WEEK	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	NITROGEN, TOTAL KJELDAHL (AS N)	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1 EVERY MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SULFATE, TOTAL (AS SO4)	1 TIME PER WEEK	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1 EVERY MONTH	24 HOUR COMPOSITE	PRIOR TO DISCHARGE TO CITY SEWER

Facility Name: OELWEIN CITY OF STP

Permit Number: 3353001

Outfall Number: 002

Ceriodaphnia and Pimephales Toxicity Effluent Testing

1. For facilities that have not been required to conduct toxicity testing by a previous NPDES permit, the initial annual toxicity test shall be conducted within three (3) months of permit issuance. For facilities that have been required to conduct toxicity testing by a previous NPDES permit, the initial annual toxicity test shall be conducted within twelve months (12) of the last toxicity test.

2. The test organisms that are to be used for acute toxicity testing shall be Ceriodaphnia dubia and Pimephales promelas. The acute toxicity testing procedures used to demonstrate compliance with permit limits shall be those listed in 40 CFR Part 136 and adopted by reference in rule 567 IAC 63.1(1). The method for measuring acute toxicity is specified in USEPA, October 2002, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition. USEPA, Office of Water, Washington, D.C., EPA 821-R-02-012.

3. The diluted effluent sample must contain a minimum of 64.00 % effluent and no more than 36.00 % of culture water.

4. One valid positive toxicity result will require, at a minimum, quarterly testing for effluent toxicity until three successive tests are determined not to be positive.

5. Two successive valid positive toxicity results or three positive results out of five successive valid effluent toxicity tests will require a toxicity reduction evaluation to be completed to eliminate the toxicity.

6. A non-toxic test result shall be indicated as a "1" on the monthly operation report. A toxic test result shall be indicated as a "2" on the monthly operation report. DNR Form 542-1381 shall also be submitted to the DNR field office along with the monthly operation report.

Ceriodaphnia and Pimephales Toxicity Effluent Limits

The maximum limit of "1" for the parameters Acute Toxicity, Ceriodaphnia and Acute Toxicity, Pimephales means no positive toxicity results.

Definition: "Positive toxicity result" means a statistical difference of mortality rate between the control and the diluted effluent sample. For more information, see USEPA, October 2002, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition, USEPA, Office of Water, Washington, D.C., EPA 821-R-02-012.

Facility Name: OELWEIN CITY OF STP

Permit Number: 3353001

Design Capacity

Design: 1

The design capacity for the treatment works is specified in Construction Permit Number 2002-487-S, issued Wednesday, February 16, 2005. The treatment plant is designed to treat:

* An average dry weather (ADW) flow of 1.07 Million Gallons Per Day (MGD).
* An average wet weather (AWW) flow of 2.66 Million Gallons Per Day (MGD).
* A maximum wet weather (MWW) flow of 6.20 Million Gallons Per Day (MGD).
* A design 5-day biochemical oxygen demand (BOD5) load of 2,744 lbs/day.
* A design Total Kjeldahl Nitrogen (TKN) load of 357 lbs/day.
* A design Total Suspended Solids (TSS) load of 2,900 lbs/day.

Operator Certification Type/Grade: WW/IV

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: OELWEIN CITY OF STP

Permit Number: 3353001

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: OELWEIN CITY OF STP

Permit Number: 3353001

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: OELWEIN CITY OF STP
Permit Number: 3353001

Nutrient Reduction Strategy Construction Schedule

Total Phosphorus – Outfall 002

The City of Oelwein shall continue to reach the goals of the Iowa Nutrient Reduction Strategy for reducing total phosphorus in the final effluent according to the following schedule:

- Submit progress report by **August 1, 2023.**
- Submit progress report by **August 1, 2024.**
- Complete construction of improvements by **January 1, 2025.**
- Complete 6 months of treatment plant optimization for nutrient reduction by **July 1, 2025.**
- Submit one year of at least weekly total phosphorus sampling data from the raw waste and final effluent by **August 1, 2026**. The report must include the results of all monitoring for total phosphorus in the raw waste and final effluent between July 1, 2025 and June 30, 2026.

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:

Ryan Olive
Iowa Department of Natural Resources
502 East 9th Street
Des Moines, IA 52057

DNR Field Office 1
1101 Commercial Ct Ste 10
Manchester, IA 52057

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)}***

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:
      i. The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      ii. 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
      iii. 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;
      i. An upset occurred and that the permittee can identify the cause(s) of the upset;
      ii. The permitted facility was at the time being properly operated;
      iii. The permittee submitted notice of the upset to the department in accordance with 567 IAC 63.6(3); and
      iv. The permittee complied with any remedial measures required by the department in accordance with 567 IAC 63.6(6)"*b*"(4).
   (c) Burden of Proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
   {567 IAC 63.6}

21. **NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE -** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. ***{567 IAC 64.7(7)"j", 40 CFR 122.41(c)}***

22. **PROPERTY RIGHTS -** This permit does not convey any property rights of any sort or any exclusive privilege. ***{567 IAC 64.4(3)"b", 40 CFR 122.41(g)}***

23. **EFFECT OF A PERMIT -** Compliance with a permit during its term constitutes compliance, for purposes of enforcement, with Sections 301, 302, 306, 307, 318, 403 and 405(a)-(b) of the Clean Water Act, and equivalent limitations and standards set out in 567 IAC Chapters 61 and 62. ***{567 IAC 64.4(3)"a"}***

24. **SEVERABILITY -** The provisions of this permit are severable. If any provision or application of any provision to any circumstance is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding.

Appendix H.2 – Leachate Volume Hauled to Oelwein

Fayette County SLF
Leachate hauled to Oelwein for treatment/disposal
2024

DATE	GALLONS
March	12,465
June	19,327
September	19,743
November	17,009

TOTAL **68,544**

Appendix H.3 – Leachate Analysis

Client Sample ID: Leachate
Date Collected: 03/27/24 11:00
Date Received: 03/28/24 08:25

Lab Sample ID: 310-277648-1
Matrix: Water

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Bis(2-ethylhexyl) phthalate	<0.0100		0.0100		mg/L		04/04/24 18:23	1	LOFS

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
Nitrobenzene-d5 (Surr)	*90*		*45 - 129*	*04/04/24 18:23*	*1*	*LOFS*
2-Fluorobiphenyl (Surr)	*72*		*39 - 118*	*04/04/24 18:23*	*1*	*LOFS*
Terphenyl-d14 (Surr)	*74*		*12 - 144*	*04/04/24 18:23*	*1*	*LOFS*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**0.0312**		0.00200		mg/L		04/01/24 19:08	1	NFT2
Barium	**1.01**		0.00200		mg/L		04/01/24 19:08	1	NFT2
Cadmium	<0.000200		0.000200		mg/L		04/01/24 19:08	1	NFT2
Copper	**0.0511**		0.00500		mg/L		04/01/24 19:08	1	NFT2
Iron	**21.5**		0.100		mg/L		04/01/24 19:08	1	NFT2
Lead	**0.000502**		0.000500		mg/L		04/01/24 19:08	1	NFT2
Magnesium	**113**		2.00		mg/L		04/02/24 15:55	4	NFT2
Zinc	<0.0200		0.0200		mg/L		04/01/24 19:08	1	NFT2

Method: 245.2 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<0.000200		0.000200		mg/L		04/03/24 14:53	1	DHM5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
HEM (Oil & Grease)	<5.1		5.1		mg/L		04/01/24 14:00	1	D7CP
Ammonia	**215**		46.9		mg/L		04/02/24 18:42	9.38	ENB7
Nitrogen, Kjeldahl	**222**		50.0		mg/L		03/29/24 09:42	10	ENB7
Total Suspended Solids	**65.0**		15.0		mg/L		03/28/24 15:46	1	A4XP
Biochemical Oxygen Demand	**29.1**	**b *-**	3.00		mg/L		03/28/24 09:16	1	W9YR
Chemical Oxygen Demand	**286**		25.0		mg/L		04/01/24 11:46	5	ENB7

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
pH	**6.9**	**HF**	1.0		SU		03/28/24 10:55	1	W9YR

Client Sample ID: Leachate

Date Collected: 06/05/24 11:30
Date Received: 06/06/24 08:45

Lab Sample ID: 310-282837-1
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chlorobenzene	**0.00164**		0.00100		mg/L		06/10/24 12:37	1	WSE8
Ethylbenzene	**0.00413**		0.00100		mg/L		06/10/24 12:37	1	WSE8
Toluene	**0.00160**		0.00100		mg/L		06/10/24 12:37	1	WSE8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
Dibromofluoromethane (Surr)	*93*		*70 - 130*	*06/10/24 12:37*	*1*	*WSE8*
Toluene-d8 (Surr)	*102*		*70 - 130*	*06/10/24 12:37*	*1*	*WSE8*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/10/24 12:37*	*1*	*WSE8*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Bis(2-ethylhexyl) phthalate	<0.0104		0.0104		mg/L		06/12/24 20:35	1	L0FS

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
Nitrobenzene-d5 (Surr)	*103*		*45 - 129*	*06/12/24 20:35*	*1*	*L0FS*
2-Fluorobiphenyl (Surr)	*88*		*39 - 118*	*06/12/24 20:35*	*1*	*L0FS*
Terphenyl-d14 (Surr)	*80*		*12 - 144*	*06/12/24 20:35*	*1*	*L0FS*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**0.0387**		0.00200		mg/L		06/10/24 14:11	1	DHM5
Barium	**1.00**		0.00200		mg/L		06/10/24 14:11	1	DHM5
Cadmium	<0.000200		0.000200		mg/L		06/10/24 14:11	1	DHM5
Chromium	**0.0116**		0.00500		mg/L		06/10/24 14:11	1	DHM5
Copper	**0.168**		0.00500		mg/L		06/10/24 14:11	1	DHM5
Iron	**22.9**		0.100		mg/L		06/10/24 14:11	1	DHM5
Lead	<0.000500		0.000500		mg/L		06/10/24 14:11	1	DHM5
Magnesium	**110**		2.00		mg/L		06/14/24 17:15	4	NFT2
Nickel	**0.0993**		0.00500		mg/L		06/10/24 14:11	1	DHM5
Selenium	<0.00500		0.00500		mg/L		06/10/24 14:11	1	DHM5
Zinc	<0.0200		0.0200		mg/L		06/10/24 14:11	1	DHM5

Method: 245.2 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<0.000200		0.000200		mg/L		06/20/24 12:42	1	A6US

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
HEM (Oil & Grease)	<5.6		5.6		mg/L		06/14/24 06:00	1	DGU1
Ammonia	**267**		46.9		mg/L		06/12/24 19:56	9.38	ZJX4
Nitrogen, Kjeldahl	**304**		50.0		mg/L		06/11/24 11:16	10	WZC8
Total Suspended Solids	**66.0**		15.0		mg/L		06/07/24 15:52	1	ENB7
Biochemical Oxygen Demand	**31.6**		3.00		mg/L		06/06/24 09:04	1	W9YR
Chemical Oxygen Demand	**292**		25.0		mg/L		06/12/24 12:50	5	ENB7

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
pH	**7.1**	HF	1.0		SU		06/06/24 13:55	1	W9YR

Client: Fayette County Landfill
Project/Site: Leachate

Job ID: 310-289722-1

Client Sample ID: Water

Lab Sample ID: 310-289722-1

Date Collected: 09/04/24 11:00
Date Received: 09/05/24 08:45

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chlorobenzene	**0.00182**		0.00100		mg/L		09/06/24 16:02	1	WSE8
Ethylbenzene	**0.00588**		0.00100		mg/L		09/06/24 16:02	1	WSE8
Toluene	<0.00100		0.00100		mg/L		09/06/24 16:02	1	WSE8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
Dibromofluoromethane (Surr)	*107*		*70 - 130*	*09/06/24 16:02*	*1*	*WSE8*
Toluene-d8 (Surr)	*100*		*70 - 130*	*09/06/24 16:02*	*1*	*WSE8*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/06/24 16:02*	*1*	*WSE8*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Bis(2-ethylhexyl) phthalate	<0.0100		0.0100		mg/L		09/18/24 16:42	1	L0FS

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
Nitrobenzene-d5 (Surr)	*92*		*45 - 129*	*09/18/24 16:42*	*1*	*L0FS*
2-Fluorobiphenyl (Surr)	*70*		*39 - 118*	*09/18/24 16:42*	*1*	*L0FS*
Terphenyl-d14 (Surr)	*62*		*12 - 144*	*09/18/24 16:42*	*1*	*L0FS*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**0.0265**		0.00200		mg/L		09/09/24 16:02	1	NFT2
Barium	**0.760**		0.00200		mg/L		09/09/24 16:02	1	NFT2
Cadmium	<0.000800		0.000800		mg/L		09/10/24 17:30	4	NFT2
Copper	<0.0200		0.0200		mg/L		09/10/24 17:30	4	NFT2
Iron	**19.5**		0.100		mg/L		09/09/24 16:02	1	NFT2
Lead	<0.000500		0.000500		mg/L		09/09/24 16:02	1	NFT2
Magnesium	**118**		2.00		mg/L		09/10/24 17:30	4	NFT2
Zinc	**0.184**		0.0800		mg/L		09/10/24 17:30	4	NFT2

Method: 245.2 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<0.000200		0.000200		mg/L		09/09/24 11:21	1	DHM5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
HEM (Oil & Grease) (1664A)	<5.7		5.7		mg/L		09/10/24 06:00	1	DGU1
Ammonia (350.1)	**215**		46.9		mg/L		09/06/24 16:49	9.38	ENB7
Nitrogen, Kjeldahl (351.2)	**246**		20.0		mg/L		09/06/24 20:58	20	ZJX4
Total Suspended Solids (I-3765-85)	**62.0**		30.0		mg/L		09/05/24 13:01	1	DGU1
Biochemical Oxygen Demand (SM 5210B)	**30.2**		3.00		mg/L		09/05/24 10:05	1	W9YR
Chemical Oxygen Demand (SM 5220D)	**504**		250		mg/L		09/11/24 14:03	50	ENB7

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
pH (SM 4500 H+ B)	**6.9**	**HF**	1.0		SU		09/05/24 10:37	1	W9YR

Client Sample ID: Leachate

Date Collected: 11/20/24 13:30
Date Received: 11/21/24 08:30

Lab Sample ID: 310-295704-1
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chlorobenzene	**0.00172**		0.00100		mg/L		11/22/24 11:36	1	WSE8
Ethylbenzene	**0.00499**		0.00100		mg/L		11/22/24 11:36	1	WSE8
Toluene	<0.00100		0.00100		mg/L		11/22/24 11:36	1	WSE8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*11/22/24 11:36*	*1*	*WSE8*
Toluene-d8 (Surr)	*100*		*70 - 130*	*11/22/24 11:36*	*1*	*WSE8*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*11/22/24 11:36*	*1*	*WSE8*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzoic acid	<100		100		ug/L		11/22/24 15:13	1	L0FS
Bis(2-ethylhexyl) phthalate	<10.0		10.0		ug/L		11/22/24 15:13	1	L0FS
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0		ug/L		11/22/24 15:13	1	L0FS
Phenol	<10.0		10.0		ug/L		11/22/24 15:13	1	L0FS

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
2-Fluorobiphenyl (Surr)	*69*		*39 - 118*	*11/22/24 15:13*	*1*	*L0FS*
2-Fluorophenol (Surr)	*59*		*25 - 110*	*11/22/24 15:13*	*1*	*L0FS*
Nitrobenzene-d5 (Surr)	*68*		*45 - 129*	*11/22/24 15:13*	*1*	*L0FS*
Phenol-d5 (Surr)	*57*		*21 - 110*	*11/22/24 15:13*	*1*	*L0FS*
Terphenyl-d14 (Surr)	*46*		*12 - 144*	*11/22/24 15:13*	*1*	*L0FS*
2,4,6-Tribromophenol (Surr)	*85*		*27 - 136*	*11/22/24 15:13*	*1*	*L0FS*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**0.0230**		0.00200		mg/L		11/26/24 17:37	1	A6US
Barium	**0.866**		0.00200		mg/L		11/26/24 17:37	1	A6US
Cadmium	<0.000200		0.000200		mg/L		11/26/24 17:37	1	A6US
Chromium	**0.0134**		0.00500		mg/L		11/26/24 17:37	1	A6US
Copper	<0.00500		0.00500		mg/L		11/26/24 17:37	1	A6US
Iron	**19.1**		0.100		mg/L		11/26/24 17:37	1	A6US
Lead	<0.000500		0.000500		mg/L		11/26/24 17:37	1	A6US
Magnesium	**103**		2.00		mg/L		11/27/24 15:35	4	NFT2
Nickel	**0.0957**		0.00500		mg/L		11/26/24 17:37	1	A6US
Selenium	<0.00500		0.00500		mg/L		11/26/24 17:37	1	A6US
Zinc	<0.0200		0.0200		mg/L		11/26/24 17:37	1	A6US

Method: 245.2 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<0.000200		0.000200		mg/L		11/27/24 13:23	1	QTZ5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
HEM (Oil & Grease) (1664A)	<5.4	F1	5.4		mg/L		12/02/24 06:00	1	DGU1
Ammonia (350.1)	**219**		18.8		mg/L		12/04/24 00:24	37.5	ZJX4
Nitrogen, Kjeldahl (351.2)	**267**		50.0		mg/L		11/22/24 17:03	10	ZJX4
Sulfate (D516-16)	**48.1**		25.0		mg/L		12/04/24 12:53	5	ENB7
Total Suspended Solids (I-3765-85)	**72.0**		15.0		mg/L		11/22/24 15:01	1	HE7K

Client Sample ID: Leachate

Date Collected: 11/20/24 13:30
Date Received: 11/21/24 08:30

Lab Sample ID: 310-295704-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chloride (SM 4500 Cl- E)	**807**		40.0		mg/L		11/26/24 15:52	20	ENB7
Biochemical Oxygen Demand (SM 5210B)	**36.7**		3.00		mg/L		11/21/24 09:18	1	W9YR
Chemical Oxygen Demand (SM 5220D)	**387**		25.0		mg/L		11/27/24 09:11	5	HE7K

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
pH (SM 4500 H+ B)	7.0	HF	1.0		SU		11/21/24 12:41	1	W9YR

Appendix H.4 - Leachate Thickness Data

Table 14
Leachate Level Summary
Annual Water Quality Report
Fayette County Sanitary Landfill
Permit No. 33-SDP-02-83C

	1/22/2024		**4/22/2024**		**7/24/2024**		**10/7/2024**	
Existing Well ID	Depth to Leachate (ft)	Leachate Thickness (ft)	Depth to Leachate (ft)	Leachate Thickness (ft)	Depth to Leachate (ft)	Leachate Thickness (ft)	Depth to Leachate (ft)	Leachate Thickness (ft)
North Manhole	23.5	3.5	25.05	1.95	24.03	2.97	23.8	3.2
South Manhole	20.8	4.2	20.15	4.85	20.05	4.95	20.46	4.54
NEX SE Riser	40	-0.6	16.2	23.2	32.5	6.9	37.7	1.7
LHPZ-9	56.2	0.1	56.2	0.1	56.2	0.1	56.2	0.1
LHPZ-10	46.9	9.1	45.8	10.2	46.42	9.58	47.19	8.81

Existing Well ID	ORIGINAL Depth (ft)	Top Elevation	Top Liner Elevation
North Manhole	27		
South Manhole	25		
NEX SE Riser	39.4		
LHPZ-9	56.3	1154.19	1097.84
LHPZ-10	56	1155.31	1099.31

Appendix I

Gas Monitoring Report

Gas Monitoring Report

Explosive gas monitoring per 113.9(2) and the approved GMSP was conducted quarterly during 2024. Monitoring points include the two (2) subsurface monitoring points, the head space of selected monitoring wells, buildings and manholes on site, and the leachate piezometers. Explosive gas concentrations were monitored continuously during the measurement events.

Figure 5 illustrates the locations of gas monitoring points. Summary tables of gas monitoring are included in Appendix I.1. Explosive gas concentrations were undetected or below regulatory action levels in facility structures (excluding gas control components) and at the facility property line during the referenced monitoring episodes.

Appendix I.1- Gas Monitoring Data

Annual Methane Gas Evaluation Report

Annual Water Quality Report
Fayette County Sanitary Landfill
Permit No. 33-SDP-02-83C

Readings are % LEL

Location/Date	**1/22/24**	**4/22/24**	**7/24/24**	**10/7/24**
GMW-1	0	0	0	0
GMW-2	0	0	0	0
LPZ-9	**OL**	**OL**	**OL**	**OL**
LPZ-10	**OL**	**OL**	**OL**	**OL**
MW-24	0	0	0	0
MW-26	0	0	0	0
NEX SE End	0	0	0	0
NEX NW End	**OL**	**OL**	**OL**	**OL**
S. Leachate Manhole	**50**	**25.2**	**OL**	**63.2**
N. Leachate Manhole	**OL**	**41.6**	**90.9**	**27.9**
LS (beehive)	0	0	0	0
LS2 (riser with wooden top)	NR(1)	0	0	0
Transfer Station Buildings	0	0	0	0
VENTS:				
1	**OL**	0	**83.2**	**OL**
2	**2.4**	**3.4**	**OL**	**67**
3	**OL**	**OL**	**OL**	**OL**
4	**3.4**	0	**OL**	**OL**
5	**7.2**	**OL**	**OL**	**OL**
6	**OL**	**OL**	0	**OL**
7	0	0	**OL**	0
8	**OL**	**OL**	**15.9**	**OL**
9	0	0	0	0
10	0	0	0	0
11	**OL**	**8**	**82.6**	**35.2**
12	**OL**	**OL**	**OL**	**OL**
13	**OL**	**OL**	**OL**	**OL**
14	**44.7**	0	**21.8**	**30.4**
15	**OL**	**OL**	**OL**	**OL**
16	**OL**	**OL**	**OL**	**OL**
17	**OL**	**OL**	**OL**	**OL**
18	**OL**	**OL**	**OL**	**OL**

OL - Over Limit
(1) Buried in snow